# 3.3 Day Discharge Record

Water level records and day discharge tables are as follows.

Table 3.3-1 Day Discharge Record of Anyang St.1

1	741	Sumitty	(9)(6)	70.444	2,756	1	2	956	\$ 65	32.890	T	T	T	٦	7	7	٦	_	1	_	1		7	٦	Ť	1	1	T	T	7	Ţ	Т	_	-
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		ity Later	s) Lovel	1	4	7	*	7	*	1	500	2,333	377	9 356	9, 510	8 035	* 754	625	3, 035	9, 98.5	255	8,310	-	1,768	2.594	5.76E	27.5	-	Ş	\$2	*	1	릵	
	/m/	-ă	(45/3)	Į		E E	£	₹	퇴	ł		1	┚	-			1	2 10,679			- 1	_1	138 5 . 2	_	┙		_	_	t_	_L	\$ 6.295	213.812	21.210	
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-	127	Dune ity	9/20)	_Ł		7,383	983	3 310	25.	_[_	Т.	L	Ξ.	\$ 768	2 24	5.756	6.854	7.433	£ 449	2,66	9.310	7, 432	6.451	5.594	5.425	128	1	6.035	122 .2	1333	\$ 515	3		
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			2,042	1.912	2, 132	6, 660 2, 142	1. 962 2 137 0. 481 2. 182	7.272	2.462	1	2,552	2.882	4.451 2.422	2, 592 2, 952	2, 762	0, 173 2, 462	b. 116 2, 572		2.472			287	ş	0 227 8 682 233 676	9, 156 2, 592 0, 274 5, 642 (53, 047	4.292	2. 972	2, 652	2, 132	27.2	:	2 263	1	1
év.	21,1	(41/s) Level	9, 495	0, 495	0, 170	88		1, 134 2, 292	9, 114 2, 462	00.0	9.435	1.352	4.461	2,532	0, 575 2, 762	0.173	111	6. 264 2. 312	6 334		9770	38			27.0	3, 594			2,355			2000		
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Table 3.3-2 Day Discharge Record of Anyang St.2

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-	lu.	77	7	3	=	11.11	9.16	0,143	10,047	0.10	3.146	0. 354	4, 942	147	=	7.17	51.2	3,346	2.246	1	10.148	17.5	3	91	9	ij	1	3	3	5	F	1	亨	9.546
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-	-	ž	6	4. 942 3. 954 4. 232 3. 981	E. 262 3.921 E. 217 4.111 12.514 0.934 41.145 4.671 11.427	7, 407 2, 971 3, 446 3, 502 6, 212 4, 046 11, 518 6, 530 44, 147 3, 481 5, 0, 30	7	֚֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟	1,141 3,195	1,745 4,061	8, 397 1, 996 8, 364 3, 991	7.320 3.811 3.648 3.881 3.849 4.811 30.354 0.930 44.143 4.251 16.74 3		3	1. 270 4. 151 13. 434 4. Q41 10. 981 4. 131 12. 518   0. 130	4 4.096	S. 931 9.348 6.213 14.484 6.031 10.776 0.798 (4.143) 3.551 9.153	7,455 1,396 10,047 4,138 13,354 3,791 3,946 0,930 44,143 4,571 15,202	L 772 ( 2.48) 7.685 4.021 10.561 3.281 2.745 3.221 3.246 3.029 (4.143 5.441 42.724	3	3, 864 7, 547 3, 951 4, 155 2, 961 9, 359 4, 601	2,745 2,931	10.354 3.311 3.317 3.971 9.566 3.971 5.566 0.550 46.145 4.321 13.774 3.	=	3	3	3,356 4,071 13,627	15.148 4.051 11.154	4.241 15.654 4.305	9,845 9,831 8,772 4,831 22,066 4,071 11,627 0,939 46,143 5,251	B. 192   4. 246   15. 624   4. 126   12. 454   3. 931   5. 772   6. 930   44. 143   4. 241   15. 694   3.	4.511 23,215 3,371 4.544 3,951 8,155 0,990 (4,14) 4,221 15,192	1252 1.231	6
١	Apr	Ĭ	1978	-	=	1	7.1	7.98	7	1	3	7,84	7	1	9	11.744	18.5	13.5	1.4	100	4	7	7	7	1.5	Ŧ	Ŧ	틝	19.51	77.064	72.454	1	1	
J		ž.	1	3	胃	2	1887	1.686	Ĩ,	3.341	100	1887	968	j	릙	3	亨	3	3	員	亨	貢	亨	3	亨	3		100	듺	힣	丰	丰	퀽	
1	J	Þ	1	핅	5	3	S	771	1.915 1.000 3.441		11	=	-	=	딀	1.257 4.121	1	į	3	3	j	6.771 3.331	급	2	2	1	1155 3374	긁	딁	F	큵	7	10, 770 3, 354	<u>.</u>
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		12.5	E.	1.415 3.101	1,495 3,941	1.1	3.5	3	1.316	3.11	3.911	=	5, 340	7	7	7,485 3,956	7	1	163	=	7	11.124 3.331	7	1 20	100	Ħ	1111 3.331	1.157 3.331	141 4.11 1.11	193	=	4	=	366
I	3	alty	3	3	3	<u>1</u> 07,	2	3	101	9	Ę	130	2	=	1	4	7,407	ij	\$	Ħ	7	1	す	3	3	4	丰	4	爿	\$	골	†	+	
l	1	ð.	1	1		<u>,</u>	٦	۲	J		3, 154 7, 407	J	٦	1				]	]	]	]	1	7		2	9	•	- 1			1	1	1	_
ļ	_	Fate	1	3	3.483	3	7	3	1	1		6.362 3.651	ä	3	Ē	3	7	3.88	7	7			=	7	1	9	=			3, 144	3.341			_
ĺ	8	Descrity Natur Quantity Vator Dexacity Natur Jountity Natur Descrity Natur Quantity	[62(3) Lovel (62(4) Lovel (62(4) Lovel (61(4) Lovel (61/6) Lovel (62(6) Lovel	3	131	6, 182 3, 154	6. 644 3. 251 T. 370 3. 951 2. 155 2. 981 7. 629 4. 001 10. 149 0. 950 4. 143 3. 971	3	6.410 1.634 2.407	3	1 502	5.362	3	1	7	育	9	. 330	Ē	E. 030 7.851 7.320 3.951 9.155 3.971 9.548 3.991	1	100	7	1.361 1.851 7.336 3.364 3.364 3.366 5.448 3.361 5.356 6.536 46.163 6.101 12.791 3	=	3		7, 407 3, 956	1,407	1.05	1.485	F	7	000
4	r	4	7	3.734 6.359 3.481	뉡	3.106	1111	3.801 8.480 3.831 7.370 3.841 0.882 3.686 7.989 4.001 10.149 0.990	111	7 2,406 6,562 3,438 7,467	3.404	3.00	10 31:406 . C. 562 . 3, 451 . T. 570 . C. 546 . T. 515 . L. 551 . C. 541 . C. 542 . S. 530 . 14:145 . C. 548 .	3.482 7.449 3.451 7.320 3.46( 7.449 3.72) 4.183 4.151 13.439 0.490	141 148 141	3.461 7.495 3.461	- 1	1,63	. 1.			_L	3	100	3.381 7.495 3.395 19.047 3.316 4.490 3.371 7.846 3.391 8.030 0.350 44.143 4.101 17.281 6.	3,861 7,485 4,016 10,457 3,211 8,287 3,246 5,463 7,131 8,772 0,370 44,143 4,112 12,518 4,	41		-1		_		긁	
ŀ	8	2	ate Level	7	7	7	1	4			=	-	1	=	1	1	1	1		=	101	L				_		7		1 18	28 2.861	23 3.451	3.31	31 7, 884
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Table 3.3-3 Day Discharge Record of Anyang St.3

dor, May, Jun.
\$2.82 \$.100 \$.450 \$.100 \$.0.01 \$.4.50 \$.0.01 \$.4.50 \$.0.01 \$.4.50 \$.0.01 \$.4.50 \$.0.01
0.25 2.173 1.250 5.031 3.100 2.023 3.400 5.173 5.173 4.103 0.071 4
4.723 0.262 4.758 2.511 5.003 2.312 5.53 24.072 5.103 5.400 4.602 0.014 4.603
12 578 5, 103 5, 490 4, 403 0, 072 4, 503 0, 072 4, 503 0, 071 4, 505
4.118 4.249 0.211 4.355 2.113 3.005 3.312 3.013 3.505 5.033 4.273 4.205 0.072 4.203 0.074 4.534
3,706 5,257 5,743 4,663 9,074 4,603 9,074 4,93 0,074 4,938 2,331
5.11 6.5031 (7.00 × 0.01 × 0.00 × 0.0
10 062 1.043 4.113 2.013 4.179 5.003 4.173 5.003 4.173 5.003 4.173 5.003
\$.001 1.121 1.914 5.077 2.104 5.011 5.011 5.012 11.30 0.017 4.007 0.017 4.007 0.017 1.101
4.118 5.135 6.214 3.243 4.458 4.603 0.074 4.603 0.074 4.603 0.072 4.759 0.072
1.199 4.392 2.366 1.882 2.892 8.403 1.186 5.840 1.794 5.003 6.40 6.400 6.001 1.000 6.000 6
10 0 10 10 10 10 10 10 10 10 10 10 10 10
4.263 2.354 3.352 13.772 5.012 3.303 5.213 5.314 4.607 6.014 4.609 9.014 (.609 9.614
2.113 4.273 -2.316 5.312 30.145 5.003 5.312 5.319 17.314 4.103 6.014 6.035 0.074 4.348 2.348 6.145 20
4.473 2.784 6.073 35.017 5.012 3.905 5.473 (8.507 4.603 0.014 4.603 0.014 4.939
2.05 2.231 2.241 2.362 2.362 2.306 2.307 4.503 0.001 4.603 0.001 4.605 2.006 2.346 4.716
20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
25 C. 17 S. 27 S.
3.313 34.105 2.177 7.340 5.107 5.490 4.603 6.014 4.603 0.014 4.503 2.511 4.305
2.427 4.623 0.034 4.623 0.031 4.555 2.123 0.181
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3.246 5.013 2.045 5.043 5.118 1.444 5.045 5.045 6.004 4.005 0.074 4.005 0.074 4.005 0.074 4.005
22 210 211 21 21 21 21 21 21 21 21 21 21 21 21
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2.007 3.007

Table 3.3-4 Day Discharge Record of Anyang St.4

	jaj.	Sustity.	(4)(2)	6, 199	6, 331	5. 874	5,640	8, 925	5. 450	20, 420											-				_		٦	٦	_		1	T	T	
.		Fator Pu	Level	4. 574	4.584	155.7	_		7 554	\$,104			-						-						-		-	-		-	-		1	
	 E	Sourcity	(01/6)	3, 243	3,245	1,106		3, 106	2.979	2, 973	2, 973	3.524	2.573	6, 586	5, 283	\$, 524	3, 243	1, 217	5, 969	2 968	5. 969	221 7	3,965	2.81T	3,617	2 969	- 527.9	926	5, 282	5, 106	5.936	14.667	3,36,5	_
		Tater to	i evel	4, 23 6	(, 394	1387	4, 354	741	4.374	4, 234	4, 374	4.434	1.374	4,594	4, 526	\$15.3	4, 394	4, 494	4,444	. 111	4, 464	4.454	144	1 434	1873	1 444	4554	1.504	124	4.514	. 504	26	-12	-
	,	Duantity 9	(*1/2)		2.590	065.2		2. 590	2,714	2,715	2.590	2,590	2.590	2, 590	2, 590	2.590	2, 590	2. 590	2, 590	065 2	2.590		2, 590	2,714	2,714	2.530	11:1	305.	14,667	4. 936	5.817	2.524	3, 243	
			Level		1.34	6.344	ä	772 7	4.354	4. 354	4, 344	4,344	1.344	7 346 7	4.344	1387	136.3	4. 544	1367	(.354	776 7	Щ	_	. 354	4, 354		1	[	. 924	58.	725	19.7	- 336	747
-	Apr.	Quantity Bater	(9/20)	1				2, 714		2,714 4.354	2, 590	2,714	2,550	2, 550 أ	2,590		2,714	2.714	2, 590	2,714 {	6,010	3, 33.2		3,105	2, 973	2. 847 4. 344	2, 842 4, 354	2,842 4,384	2,714	2.714	2,114	2,716	2,590	-
		Nater Du	_		1.364	1384	256	6,354	1,354	4,354	4,346	1,354	4, 346	4, 364	4, 344		1, 55.6	1.354	4,344	4,354	4, 564	4, 404	386.5	4, 384	6 374	727	\$ 354	36		- 354	154	1.354	777	_
	thr.	≥	(43/1) Level	2, 590	2,458	2,455		2, 349	2,120	2,120	3, 569	\$.106	5.243	4,439			2.973	1, 152	2,842	2,842	L	_		3, 243	3.100	2.973	2.973	2.842	2, 973	4.439	3, 106	2,842	2, 842	
			Leve) (	-	1 134	ш	_		_	. 106 1	4, 524	4, 934	4.394	\$15 F	101 9		(, 374	t, 104	6,354	1, 364	4,354	ш			: 1	4, 374	- 1	1.364	6.374	4.474	384	4, 364	364	126.
	Feb.	Quantily Mater	(m1/a) L	2, 488	1997.7		_		085 2	2, 590	2.714	2.714	2, 842			2,714 6,384	2.714	2.550		-	2. 349			2, 468	2. 468	1	-	1	2, 468	2, 590	2 873	1	-	_
		Tater Du	Level (	4, 334	1.334	-						4, 354	4, 364	_			4, 354	1,344	報	232	4, 526	Ξ		334	4. 534	100	2 P	188	334	4, 344	4.374	-	-	-
	310	Quantity I	(8)/8)	2,465	2.349	2, 590	_					2,714	2, 714	2, 714	2, 590	891 7	2, 168	2, (53	2.590	2.714	_	-	2,714	2, 590	2.714	2.590	110	2.18	2, 714	2,714	2,570	2,466	2.153	7 168
	1531	Yater Nu	Lovel (s	1 6 334	4.326	1361			ALC:	583	10	2 4,354		4, \$54	4,344	13 4, 334	Н		4.344	354	344	1. 35.6	-1	_		177	154	1354	4.354	. 35	6,344	133	1,334	7237
		<del>-</del>	Date 1		2			\$ 3	9	,	.0	7	10 4,354	11.	12	13.	14 334	15 4 334	1	17.	18	19	156 1, 62	136 1 12	22 4.354	E	7 12	23	92	2	32	1	30	2
	ğ	Quantity	(1/(1)	2, 233	2.042	2.33	3, 282	3,352	1. 382	3, 362	3 362	3 382	3 392	5 382	3.362	3, 322	3.85	3, 302	3, 362	3 182	3.352	2.11	7, 173	2.812	1,242	2 343	2.343	2 010	3, 542	3,352	3, 162	133	3,382	2 540
		Tator.	Lovel	4.314	4.364	78	100	4, 404	4, 404	1 604	2, 101 1, 104	3	1.404	101	101	4.404	1.05	107	401	4.404	4, 464	4,354	4, 374	4, 364	4,394	1.331	72.7	762.7	4, 404	101	7 601	703	1017	7
	Š	Quant Lty	(=3/5)	2, 907	7. 907	2.807	2 907	2.907	7. 507	2, 107	1, 101	7 107	2,907	1 107	2 107	2, 507	2, 907	2 907	2 907	2 907	3, 382	2, 345	2.734	3 243	3,243	3 106	3 106	2,173	2 173	2 973	2.133	2.84.2	2, 542	
			Level	4, 269	4,369	4.359	4, 369	4.359	1 369	4 369	=	2 107 4 349	6.369	1 161	1, 369	1, 359	191	1.369	1363	( 36)	101	4. 234	155	1.394	1.3%	1 184	#	122	4, 574	4, 374	1.374	388	795	
	ä	Quantity Fater	(1)(1)	7, 907	101	2.301	2 107	2 907	2 907	2 907 4 369	3 307	101	2 50T	7 907	2 907	2, 20T 1, 359	1.00	2 507	. 2 SOT	2, 90T	2 307	2 307	2 901	7 907	2 997	2,907	2, 307	2 307	2 907	2 907	2 307	7.007	2 307	2 807
		fator o	Lovel	1, 369	4, 369	4.369	4 369	4.369	4 369	4, 249	4.359	4 363	4 369	4, 369	4, 361	4, 359	4 169	4 169	432 1	4, 369	4, 259	( 163	4.362	1, 369	( 369	4, 369	4.369	4, 369	1 369	4, 369	4 369	4, 368	4, 369	100
	Ş	Quantity.	(4/(4)	52 810	61.610	97.01	26. 250	19, 840	13, 950	11.090 4,269	10, 433	22. 590	40 530	153 330	238, 445	140,610	35	54, 230	39 300	29 560	2 101	2 901	. 2, 907	2, 907	2 907	2, 307	2 203	2 907	2 967	2, 907	2,907	2,801	2 301	
			Level	4.169	4.383	3	1.33	4.259	4.169	1.	39	4.69	3.169	4.369	4,362	4, 369	436.7	1 349	1 348	4, 369	4, 359	4.365	1	4. 369	4.369	4.369	4.383	4.369	4, 352	4 369	4.365	4,319	4.319	_
Ì	448	Duntity Sator	(1/(1)	4 685	7.087	ā	5 373	5.916	4.104	\$115	3.022	3.13	12 550	5 127	5, 195	\$ 135	21.234	9 272	5, 022	1 506	7.007	\$ 104	21,10	54. 354	102 584	17, 307	9.00	1.067	181	. 6. 104	5 732	20 5	¥ 104	37 6
		G. Jorg	[ave.	4.69	107	1987	1.23	1.559	4 509	1	305	115 7	4 105	1 545	418	4.319	\$ 128	1.18	1 308	1,723	4.619	\$ 5.5		5, 914 54, 354	6, 549	5.029	4, 109	619	4, 584		1,549	4.569	4.569	100
	In a		13/4)	7.192	1	12, 123	11 11	23 879	17, 265	13.177	17.58	10.733	7.111	8 411	18.334	23, 467	4.652	17.550	53, 768	72 267	16, 524	12.55	¥	6, 113	5 (38	12.550	16.32	011.81	14, 250	32, 338	25,745	1	2,342	7
		'ster Pu	440]	1 623	4,499	4.859	(323	\$ 139	\$ 003	4.972	4.05		1.603	1111	4.979	5,189	_ !		5, 439	\$.159	4, 979	4, 849	4 603	4.559	4, 589	4, 649	4, 979	4, 939 25, 110	4, 905	5, 409		555		
	Ē	utlty #	1 (0/6		3.453	\$ 53	\$ 459	\$ 174 5 199 23 879	3.174	3,34	1	1.53	3 453	3 455	7, 307	2,652 5,100 23,467	4, 520 3, 489	3,174 4,349	4. 459	5, 571	14, 521	15, 696	360	12 022	9, 528	296.0		27.72	15 324	13, 658	2, 507 4, 828 12, 013 5, 249	2.780	3, 352 4, 659	
		ater Pu	ians Tana	4. 201 4. 449 4. 045	107.9	4.40	4 103	4.111	311.7	=	1		1.409	4.50	4,369	110			4.474	6773	4.911	_		2 288.7	1,319, 29	7 230	1		4, 978	_	100	=		
	ň	at ty	300	1	1207	\$10.7	1.73	4, 045	570.7	117	1 161	2 101		5.022	\$ 195	10.105	\$ 550	\$ 185	5.371	5, 371	5.331	5, 522 6, 239	4 520 6, 379	1.201	3, 493	3.143	3, 659	1.53	3, 312	3,055 4,409	3, 907	3 039	1116	1 404
		ater Du	Die C	1,455		=	4.458	4.449	4.449 4.045 4.312 3.174 3.009 17.865	1	1	198	4.449 4.045	4.309	4.511		-	1157	1,523	4, 529		ابـــا		1 459	. 03	103	107	603	4, 399	4, 379		1.379	1,399	017
	Yer.	Tuter Cuantity Cater Duantity Tries. Quantity Sater Quantity Sater Quantity Sater Quantity Sater Quantity Sater Quantity	(63/a) Lovo) (63/a) Level (83/a) Lovol (63/a) Lovel (53/a) Lovol (63/a) (63/a) (63/a)	4.400 3.455 4.359 2.778 4.381 3.174 4.459 4.201 4.459	4, 353 2, 778 4, 399 3, 312 4, 464 3, 969 4, 439	587	3.964	2.693	1 201	4,409 3,455 4,348 2,452 4,399 3,312 4,469 4,351 4,464 4,315 4,316 3,174 4,312 3,337	4.409 3.455 4.349 2.552 4.399 3.312 4.449 4.045 4.444 3.968 4.389 3.574 4.819 11.759	4.400 3.453 4.354 2.714 4.400 3.453 4.464 3.213 4.309 2.207 4.400	5.919	3 893	6.33)	1, 585 1, 754	4.384 3.306 4.349 2.632 4.409 3.453 4.504 4.336 4.539 5.550 4.474	4.324 2.475 4.349 2.657 4.447 4.275 4.469 4.359 6.519 5.195 4.399	2, 907   4, 349   2, 552   4, 349   4, 452   4, 469   4, 359   4, 525   5, 331	4.123	4, 123 4, 525	4, 845 4, 509	4.314 2.233 4.459 4.852 4.389 3.134 4.334 3.817 4.439	4. (28   3.743   4.389   -2.174   4.414   3.588   4.456   -4.201   2.898   23. 627   4.589   -6.488	4.228 2.408 4.474 4.439 4.389 3.274 4.418 3.596 4.43 3.233 2.313 299.528 4.589 5.408	4.374 2.345 4.469 4.359 4.479 4.320 4.484 3.417 4.439 3.745 7.339 170.962 4.949 12.550	2,408 4,444 3,368 4,414 3,524 4,429 3,593 4,409 3,439 4,249	C. 045   14,419   3,594   4,459   4,201   4,409   3,453   5,299		8, 42	3,524 4,509 5,022 4,814 11,619 4,359	4.879 8.352 4,755 10.228 4.379 3.039 4.438 12.780 4.859 15.711	5, 103 4, 259 3, 312 4, 679	
		rer om	107	1.53	퐭	—Ł	7117			6997		=	3		*	88	305	499	469				3	107	117	150	69	1.459	4,459 4,201	4,689	712	1.155		
	17.	a tity	740	133	121.	3, 312 4, 419	1,355	3,274 4,419 3,693	4, 409 3, 453 4, 549 2, 652 4, 401 3, 453 4, 459	1,312	1	1	3,453 4,444	4.409 3.453 4.369 2.907 4.409 3.455 4.839	3,711 34,584	2, 652 4, 389 3, 174 4, 689	1 131	1 6127	1. 152	5, 140 4, 154	3,445 4,456	3.312	777	1,174	1.134	1 22	1524	7 965 1	1,312	1, 312 4	7 220 3	1,352 4	4,484 4,602 4.514	1 304
ı	1	Ter.	ve)	111	=				107	1	8	8		80		1	60	111	611	_	4.334			319	389	131	1	616	199	134	509	879	18	7 150
	1	1117	(3)	ij	7	2.73 4.33	2,778 4,404	157.4	125	7 255	552		7	100	100	25	7	255	152 4	112	2.14	5.32 4	1	163	1	358	198	245	3,743 4,399 3,312	3, 743 4, 339 3, 512	324	-	1	_
	뒲	5 10 10	100	1	111		4111	4 341 2.652 4.281	241 2	7	311	1	E 455 4, 354 2, 714 4, 409	311	2.312 4.364 2.442 4.449		3.8	349 2.	349 2.	2.842 1.551 2.731 4.544	_	4.549 \$	153	(2)	17	1	3	4.445	C-17:9	_			-	_
+	1	Tin h	100	100	1	5,453 6,359	1488	453	433	413	4 65	123	455	1	121	3, 312 4, 349	101	12	307	177	2.408 4.354		12	21 4.	101	343	103	2.408 4.4	2.724 6.4	2, 907 4, 429	2, 973   4,414	252	106	ī
Autona Choica 51.4	1	S. Seel	7	1	4,409 3,453	_		3,457	3.	6	6	-	- 1	-		_	-	1		17		29 2.400	-	4.319 2.231	18.	7 72							49 2,901	
	8	Tate	Date Level	7	7	3 4 409	4 4.40	5 4.401	•	7	1	7	101 7	**	12 4.391	13 ( 390	1	11.43	11 4.369	17 4.364	18 4.521	11 4 528	10.	21 4.3	2 4.3	1.1	24 4.328	25 4.329	386.3 45	27 4.349	28 4.374	29 4.499	30 ( 349	
L			ā	ا	1	1				1	_1		_1	<u>ا</u>			 3 3	] }	1	لبـ	لبا	L	1	ت	الت		Ц	ئب		تــا		لت	ت	ئــا

Table 3.3-5 Day Discharge Record of Anyang St.5

			3	Fator Quantity	(s/(s)	3, 534 5, 182	5, 334 5, 162	238 1 128 5	5.314 4.754	5,314 4,754	5,204 4,546	5 874 25, 757																						
11   12   13   14   15   15   15   15   15   15   15			100	Smallty	(8)(2)	4	3 763	_		3,763	1		_					~	<u></u>		_	_ (		- 1	_L	4	L	. 1	. 1	1	1	1	٠,	
The part of the			314	tity Tator	-7	4		-			I					1							383 8 254	578 5 244	578 5 254		L-			ш.			200	
The part of the			3		7	_[	_	_			- 1		1	_	_	_			Ц	_	_ļ	- 1	. 1	- 1	2,25	_Ł	Ι.	7	1.		1			
10   12   12   13   14   15   15   15   15   15   15   15			Į,	Summa ( 1.yr )	(5)(2)	3	1,743	4 343	4.343	6.213	919	4.165	4 345	- 1	- 1	4 165	2.95	0 20	\$ <b>1</b>				1 604	111	4.546	25	3	9				3 75		
10   12   12   13   14   15   15   15   15   15   15   15			_	ty Valer	18.87	\$ 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	52 5 284				- 1		2 234	30 5.254	5 274	5 206	5 3.76	56 5 394	25. 5. 284	- :- 1		_1			5, 30,	2 304	\$2.26	200					3 5	
11   12   12   13   14   15   15   15   15   15   15   15			,					_1	-+	_1	_1.	_1		394 6 5	344	331	ŀ	1	. 1	-1	.1			. 1			1	1	-		L.	ı	1	
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11   12   13   14   14   15   15   15   15   15   15			4					7 38	233	72	2.7		-		2.34	\$ 36 9	2 201	ğ	5 304	5 364	THE SECOND	1 1 1 1 1 1			-4-	2 2 2 2	100			5, 284	2 284		┖.	
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Fig.   Part			<u> </u>			I			1	1				1	1	┙	┙	4	1	_	Ţ	1	1			L	L	L	Ŀ		Ш		2	
19   150			×		1.	Ł	1	┸	1.	-ļ-	Ŀ	1	1.	Ŀ	-1-	1	1	Л.	1		+	97	1_	4.	L	┺.	L.	Ŀ.	.Ļ_	┸		-		
Fig.   Part		L	8	ntity water	7	٠.		_				2.2	7		1	_1_						14 21	2.2				١		10.5	166 5.57	168 5.57	346 5.57		
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Fig.   1962   1964   1964   1965				Punnet ty	5 707		Ļ	1	1.	L							1	2		1	L	⅃		.Ł		362	2,3	٠,٠٠	ŝ	5.252	L. I	. ]	_	
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Harden   18,   1	:	3	Ε.		+=		١.	ᆫ	L	Ŀ	_	┸	ㅗ						┺	l.	1	1.	1.	ŧ.		-	-	ά.			Ŀ		_1	
High   Line   Col.   Mart   Date   Gale		-		(1/2m)	107.3	5			┺-	٠.	-										4					165.912			•	ட		1366		
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10   10   10   10   10   10   10   10			ľ	1000	3.24	5, 278	5		3.10	976	. 23	ľ	ľ							_	_	1	1		1	1 779 1	1.001			\$ 749	1	_1	\$ 509	
10   10   10   10   10   10   10   10		, Kil	ļ.	(82/3)	1,649	1, 457	1,145	707	702 9 61	358. 9		Ļ.	١.							U.	35	115 1	3		=	136.1	1 1.14	1 4.045	3.056	3, 656		1	- 1	
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100   100		9				5,319	\$ 349.5	5 946 5	5, 374	L.	L			L	1.					007.5	5 311 5					5 349 5.	3, 354 5.	5, 454 3,	3.374 E.	1.231				
1110 (2011 1) 11		Į.		(*/*)		1.871	13,304	11.232	10.941	1.01	7, 672	Į.	8	100		69.515	510		2.00	12	106.8	214	13.651	22		1 525	123	13.838	13	1	100	15	20.50	
1110 (2011 1) 11		i	4.0	Level			5,619	13 5, 559	1 5, 549	777 3 01	627 \$ 01		14 5.449	5 443		1 594	163 5	3	782	3.55	1 3 449	***	2.0	S.	1 5.504	1 1 199	1 5 409	7 12	1	1 133	5 233		9	
		to.	Stant Brant I	(e)/e)	_											٠.	35.5	1		163	580 12.10	611 13.30	32.67	121 21 69	111 11 10	143 72.33	699 16 25	11.30	554 11.13	23 10 33	1 2 2	1 1	6	
	21.5	180	ANILIA MAI	1/2/2	13.657	1011			12, 511 3,	12, 611	1.355	13,304	12, 955 5,	12 955 5		1 111 1	5 611.7	1 1 1 1	2	4.441	4 859 - 5	3.292 5	3 619 6	\$ 573	1 111		1.149	1.35	1,073	5 073 5	\$ 222			
	SULTER THE	- ?	Tater Da	Level	100		_		- 1		3	3.111	101	15 5 199			لنا	L.,			17 5, 319	15 1, 331	11 1 23	5,333	ك		2 303	311		1 3		111	1	

Table 3.3-6 Day Discharge Record of Anyang St.6

1000 Jun	Jan.	Peb.	L	No.		Apr	¥2,		ě		- TE	Jay		Ş		001	_	Kov.	Dec		1881	183	€	L	Mar		Apr	, sp	-	Jun.	lat	Γ
Fetar		Scanity Sator Quantity Sater Duantity Sator Quantity Sater Quantity Sater	Y	Quantity	Tator Du	antity a	ter Juan	tity Yakes	- č		Quentity T	fater Duant	Quantity Gauge		Sussitiv Bater A	Augustity Gauge Aumility Tater	Caugna Des	atlty Mate	۰.	-	Fater Qu	Sater Quantity Water	1	Quantity Bater	Quantity Fater	F	atanilty fator		y Cater	Ď	Nater Duantity	Þ
Level	(u.l/s) level	evel (41/4)	147.91	(412/4) Lavel (43/4) Lovel	) lames	(43/4) Level		(e) Leve	(a3/e) Level (a3/e)	Ē	(3/6)	Level (m3/a)	(10)	1 (63/5)	1949	(8)/(8)	65	(a1/2) Level	(0.7/0)	Date	ievel (m\$/a)	\$/s)   tevel	(8/(8)	i) Level	(8/(2)	10,21	(#3/E) Level	(6) (43/6)	Level	(#\$/E) IA	Lovel (m2/1)	_
11.11	-	4, 154 10. 012 2, 052 10. 012	11.01	1.952		0,614 10,072	_	1, 955 10, 032	. 1	2.516 10.112	1101	1,181,01	7.971 9.942	42 2.014	1 1 1/2	0.614 9.842	_	0, 614 10, 143	113		10.013	4, 371 10, 103		5, 181 10, 113		5, 612 10, 003	4, 753 10,073		5, 297 10, 103	5, [8] 10, 133	325 \$ 525	375
2 10 162	£ 959 10 90Z		1, 795 10, 002	1, 795 8, 942		0.614.10	161	21 10.0	0, 614 10, 097 4, 931 19, 922 2, 326 10, 192	130.01	250.4	10.121	6.014 2.942	12 0.411	1.142	5 614 9, 142		0.814 10.103	101 5 141		2 10, 083	4.331 10.113		5, 612 10, 103		5, 181 10, 093	4,750 10,083	L	4. 371 30. 103	5, 181 10, 113		5, 612
3 10.17	6, 244 1 197	4 397 1 673	1 673 1 997	1, 673 6, 942		0.614.19	132 6	478 19.0	0. 614 10. 132 - 6.478 10. 042 2. 926 10. 131 - 6.478	10.131	_	10,142	11.	4,951 9,911 0,614 3,942	3,942	0, 614 8, 142	_ 1	0.414 10.093	193 4.764		超	2	113 5.6	10, 113 5, 612 10, 113		5 612 10,593	4, 768 10, 023		4 371 10,093	4 748 10 103	103 5 187	18
10, 127		6, 244 8, 997 1, 673 6, 897 1, 673 8, 942	1 4 817	1.673		9, 614 10, 032		2, 618 70, 032	32 2. 618	2, 618 10, 142	1, 159	10, 177 6.	6.014 9.942		0, 514 8, 942	0 614 1,942	·	0, 614 10, 093 4, 768	113		超	9	195 5.1	10, 195 5, 181 19, 113		15,092	5, 612 10, 012 4, 758 10, 053		4, \$77 10, 093	4, 768 10, 103	103 \$ [6]	19
10, 177	4.014 30.002		1 795 10 002	138	3,0	0. 614 10. 032		2. 514 10.032		2 618 10 142	1881	221.01	2.454 \$.94%	_1	2,614 9,942	0,614 9,942		0, 614 10, 093	193 6.768		2 96.2	2	16 103 5.1	5, 161 - 10, 103	5, 181	10, 103	5, 121 30, 103 5, 181 30, 023	. 1	4, 371, 10, 093	4 768 10 113		5.612
10, 122	1.514 10.062		1,715 10,002	1303	1 11	0.614 10	10,043	2, 926 10, 052		2 252 10.113	5.566	10.332	7.454 2.942		0,814 1,942	0, 614 0, 942	_1	0.614 10.013	113 4.768	_	ig Se	10	10, 115 5.0	5, 612 10, 083	1.371	10, 103	5, 181, 19, 083	983 4, 371	11 19,093	4,768 13	10, 103 \$	5 181
19, 122	1, 214 10, 002	16, 002 1, 735	20.00	ŝ	=	0.61418	10.00	2, 924 10, 052	31 3.33	10,117	1,016.1	10.101	5.131 2.542	67 0.614	1365	0.614 1.542		0.414 10.093	191 4.761	<u>-</u>	墓	2	10, 115	5. 612 10, 093	4 768	10,093	4.768 30,	10,013 3,992	92 10.023	4, 271	13, 333 12, 457	5
10, 112	1 014	10, 002 1, 795	1, 795 10, 992	1 795 8.942	3. H.	0, 624 10	10, 062	3, 595 10, 622		2.124 10.312	5, 569		5.139 1.943	41 0.614	1 9.82	0.614	1.912	0. 914   10, 101	181 2 181	-	## #K	ě.	10, 115 5.6	1, 612, 10,083	4 371	10,055	4, 753 10.	10, 103 5, 13	5, 121 10, 053	4, 37;		
1 19.17	6 614 10 612		2. 052 10. 012	2, 052		0,614 10,642		2, 926 10, 012		2,052 10,127	6.244		8.014 S. 94Z	17 0,614	1 912	0.634	3, 542	0.614 10.029	123 2,355	,	e e e	10	10, 115 5, 6	5, 612   19, 153	<u>.</u>	7, 507 10, 033	4 768 10,05\$		4, 171, 14, 103	5, 181		
16 16 177	1,014 10,017		7 10 017	2, 187 10, 017 3, 187   9, 942		0. 614 10. 052		1.252 10.012		2 052 10, 132	1.456	19.19.	2 411 2, 947	47 9,614	1,942	2. 6 14 9 547		9, 614 19, 033	193 4.763		10 10, 003	4, 788 19, 125		21 01 03	6, 950 10, 123 6, 959 30, 933	10.033	4, 768 10, 073		3, 192 10, 093	4.758		
1, 142		0, 614 10, 017 2, 167 10, 017 2, 167 8, 942 0, 614 10, 062 3, 595 10, 072	7 10.017	2, 167	1. HZ	0. 614 10	.062	595 10.0		8, 155 10, 152	7, 656 1	10, 122	6.014 8.942		9, 614 1, 942	2.14 1.12		0. 614 10, 093	15. 7 260	ı	11 50.083	4.199.10.	US S.	12 19, 15:	8.023	10,011	4,366 30,113 5,612 10,143 8.023 10,053 4,763 10,053		4, 771 10, 197	9, 575		7
1.90	l. i	0. 614 10, 117 6 5, 749 10, 117 5, 769 9, 942	1 10.117	\$,789		0.614 10.04T		1, 528 10, 032		2, 618 10, 163	1, 235		177 1.1	(2 0,6)	4,777 9,942 0,614 4,942 0,614 9,842 0,614 10,093 4,769	\$.614	1 142	0.01 210.0	177		12 10.093	4, 768 19, 113		5,612 10,133	8, 525	10,013	8, 525 10, 083 4, 371 10, 059		4, 371 10, 153	7,507		
10, 952		3, 232 30, 032 2, 616 10, 032	1 10 032	2.613 3.242		0 614 10	10, 142	2.971 10.042		2.12. 10. 212	10,403		111 1.3	41 0.11	4. 333   9. 942   0. 614   9. 942   9. 614   8. 642	0.11	77	0, 614 10, 103	181.3	13 288	12	o o	13 5 6	19,113 5,612 10,123		10, 153	7, 507 19, 075		3, 997 10, 103	5, 181		
30 052	3, 252, 10, 002	0.002 1.795	10,001	1, 795	1.147	0, 114 10	10, 072	3, 155 10, 052	52 1 252	2 10.232	12.05T		23, 449 8, 942		0,814 9,942 0,614 1,842	0,614		0, 614 10, 693	193 4. 768	11 3883	23.55	61	10, 117 5, 6	5, 612 19, 123		6.050 10.093	4, 768 10,	266 \$ \$10.01	10, 093	4 768		П
10 052			1, 795 10, 692	1, 795	9, 941	9, 414 10:072		3, 955   10, 192		5 10, 20%	15, 491		7, 871 . 9, 942	42 0.614	\$ 9.942	0, 614 8, 952		0, 614 10, 993	93 4.769	_1	:2 Ø£1;	用形切れ	מע	19, 112	\$ 517	10,033	4, 768 10.	10, 073 3, 197	10,993	1 765		
19.022	2, 326 19, 612		2 057 10.012	_	2,052 3,942 0,414 10,057	0.414 10		3, 422 10, 272		14.239 10.332	15.255		5.014 . 9.942	12 0.616	3 943	281 1 183	_	0, 614 10, 093	193 4.768	_	15 30, 113	5. 412 THE	開催のれ	10, 113		5 512 10,033	4. 571 10.	10,073 3,99	3, 992 10, 081	4, 271		1
10.043	2, 924 10, 017	. 1	7 19.917	2, 157 110, 517 1 2, 187 1 9, 912   0, 814 110, 052	2.842	0.414 10	7	252 10.20	2, 252   10, 202   10, 202   10, 212	1 10.212	15,431		7, 371 9, 242	11 0.616	3.742	276 8 8 875	_	0, 614 10, 983	11.4.21.	4	11 10 113	5. 612 HIROTA	ug.	10, 73		_	4.768 10,073		5, 997 10, 083	4.371	-	
10.042	2, 926 10, 072		5 10 012	1, 355 10, 612 2, 955 9, 942	1 94	0.414 10.052	$\Box$	\$, 252   10, 322		18,543 10,232	12.051		6.216 9.212	1	256.3 511.0	9,614, 1,342	- 1	0, 614 10, 913 4, 768	11	_	16 20, 113	5, 112 19, 103	181.3. 5.151	51 1003		10, 219	5, 16; 10, 213 10, 864 10, 073	073 3.992	10.001 26	1111		7
10 011	2, 110, 10, 132	0,132 4.474		10.13. 6.479	1 142	0,414 16,032		2.6.0 19.712	13 12.768	12, 768 10, 137	1111	10, 142 . 1, 159 1, 942	151	110.01	0 414 10, 183	5, 100 10, 183		9, 108 10, 143 7, 007	1 0		227 05 61	6, 260 19, 033	333 4, 768	10, 103	5, 151 19, 125		6,060 10,073		3, 952 10, 093	4 768		7
10, 037	2, 770	10, 102 5, 139	9 10 102	\$ 133		0, 114   10, 032	$\Box$	2 610 10 732	57 14 142	2 10.142	1361	10.10	1.235 9.242		0, 614 10, 133	6, 525 10, 133	10, 133	4, 525 10, 093	11.14		20 10, 113	5.117 2618	90	10,113		\$ 612 10,119	5, 612 10, 073	1	\$ 992 10 063	1.11	-	٦
10 022	2 326	10 082 4 333	3 10 062	4.33	9, 942	0, 614 10,	10, 042 3,	3, 595 10, 832	22 61.638	10,142	1.954	10,272 14,	14, 770 8, 942	42 0.514	18,103	5, 101 10, 103	_	5. 191 10.033	1,762	_]	21 10 12	5.112 2005	22	10,115	- i	5 512 10 179	5, 612, 10,	10,073 3,997	52 10.083	4. 371	-	٦
10 022	2 326 10 202		10, 202 10, 202	10, 202	1 947	0, 414 10, 022		2.326 11.41	11.412 201.726	6 19. 132	7.456	10. 352 21.	21.021 9.942	12 0.414	16,933	4.749 10.093		4, 754 10, 193	191 8 191		22 00 123	6.060 (800)	#2	10, 113	\$ 612	16,033	4, 763 10,	10, 073 3, 997	55 10, 035	4.768	-	٦
10, 042	2, 120 10, 122		8,478 10,132	£ 478 1.942		0. 514 10.022		326 10.45	Z. 326 10, 49Z   24, 604 10, 17Z	1 10 112	1,503	10, 262 14, 966	202 9 347	11 0 114	4 16.183	1	10,167	5, 181 30, 943	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7	10:113	5, 412 3000	1	10, 102		5, 181 10.093	4, 768 10.	10, 073 3, 952	52 10, 933	1,755	_	٦
022	2.638	19, 022 2, 618 10, 087 4, 931 10, 097	10.01	1.93		0.414 10.012		952 10.37	24 01 05 22 2 20 10 192	10.132	111	<u> </u>	10.503 2.142		0 614 10, 109	3.101	10.103	5.151 19.033	1,76	1	24 10, 13	6. 525 9	ight.	10, 103	I	5, 151, 10, 093	4, 768 10, 033	- 1	4, 311 10, 013	3.832	-	٦
2	2.616 10	10.032 2.616 10.032 3.955 10.072	5 10, 072	3,955 9,942		0, 414 10, 022		326 10. 7	2, 326   10, 272   14, 776   10, 192	10, 392	5,619	10, 182   9, 952   9, 942	1 1 1		0, 514   10, 102	5 181 10 103	l	5, 181, 19, 903	1,820	_	25 70, 113	5, 612 1873	žć.	10, 103		5, 151 19, 093	4 769 10, 103		5, 181 ,0, 083	111		٦
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Table 3.3-7 Day Discharge Record of Yangjae St.1

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	100.2	0 170	701 025	5, 364 O K79 C 489 C 499 C 4 5 5	(8//8) (0/c)	(2/2)	[cve]	(a)/a)   cvel	(e)	4	(8/8)		(3/2)	7	(#3/2) Level	(1)(3)	terral (s	(43/2)	Leve (	_	Date Level			(n3/z)   .e.ve.		(a1/c)	(*,**)		Authority Water	~_	S C	S C
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Table 3.3-8 Day Discharge Record of Yangjae St.2

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Yan tae Chong St. 5	1000	Tater 0		15.097   9.194   25.052   0.045   15.047   0.036   15.037   0.116   15.057   0.019   15.117	2 15.007 0.124 15.052 0.046 15.052 0.046 15.077 0.119 15.047 0.016 15.057 0.055	3 13.007 0.184 15.022 0.046 15.052 0.046 15.057 0.047 15.127 0.149 15.057 0.057	15, 097 0, 194 15, 047 0, 036 15, 052 0, 046 15, 057 0, 077 15, 097	15, 097 0.124 15:047 0, 036 15, 052 0.046 15, 057 0, 051		E			12 12 12 12 12 12 12 12 12 12 12 12 12 1	2 Art 2 Art	25 021 0 000 15 000 15 000 15 000 15 000 15 15 000 15 15 000 15 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 15 017 15 017 15 018 15 15 018 15 0	16 15 217 C 03 15 APT C 15 APT	15 0.7 0.05 15 0.0 15 0	198	16.051 - 6.051 13.132 0.541 13.053 0.670 14.071 0.116 17.570 0.670 15.371 0.671 15.271 0.672 15.071 0.651 15.171 0.608	15, 032	15.052 0.046 15.007 0.134 15.047 0.035 15.047 0.034 15.057 0.041 15.057	15, 947 0, 053 15, 15, 15, 0, 642 15, 047 0, 056 15, 064 15, 057 0, 055 15, 15, 15, 15, 15, 15, 15, 15, 15, 1	15.047 0.036 15.162 0.318 15.047 0.036 15.047 0.034 15.047 0.034 15.247 1.425 15.1	15.052 0.046 15.117 0.299 15.057 0.051 15.047 0.044 15.037 0.019 15.157	18.047 0.038 15.107 0.217 15.052 0.046 15.057 0.057 15.042 0.077 15.117 0.411 15.265	15 047 9,036	15.047	20 :	15 107 2 261	11 25 047 0 018	
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Table 3.3-10 Day Discharge Record of Yangjae St.4

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	3	Dues (12)	(2/2)	25	=	0.879	0.85	0	0 755																									
				15.078	250 35	90	820 81 223 0	0.510 15.948 0.745	0.565 15 998						Г																			
	١.	Quantity Spice	(n3/s) (rave)				1 22	01.5	1 295	14	1	12	311	13	22	151	1	55,	\$95	\$99	0, 565	229 0	9	5.8	59	5.8	01	22	25.0	\$8	59	63	£	ļ
	β	ā		-		-		0	0	282.0	-3	285 0	118.0	2 833	2,023	158.0	_	\$27.0	\$95.0	0,565				0.458	0.5	0	0.510	0.622	-		_		┅	
		Fater	ž	15.98	15.96	3	12.	15 952	15 962	25	2	15.98	100	15 212	16.148	15, 026	8	166 51	15.96	15.968	15, 948	15, 973	15 998	15 948	15, 368 0, 565	15.948 0, 258	15, 958	15, 978	15.940	15 948	15.968	16. 23	16.158	
	*	Duratity Fater	(m2/s) Level	0,745 15,988	0, 745 15, 968	0.765	0, 745   15, 978	510	ž	3	2	25	229	0, 565 16, 218	299 0	37.5		233	\$35		0,682	0.582			583	229	\$73	1, 185 15, 978	7, 845 15, 940	\$18	1,162	0, 811 16, 235	0.632	0.682
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	Ŀ	Duent it y Dator	(#3/#) Level	1, 349 15, 938	1, 264 15, 998	15.598	264   15, 998	1, 264   15, 958   0, 510   15, 958	1. 264   15, 398   0, 745   15, 953	Ē	٣	Ŀ	15.9	1, 181 15, 964	15, 985	1, \$49   15, 938	15.9	15.9	0, 951 15, 968 0, 565 15, 968	1,527 15,988 0,682	15.588	15.988	5 51	1	7. 621 15. 988 0. 652	15.97	15.0	16.0	15.518	16, 138	16.04	16.0	11.3	13.50
	, Yor	1	(#3/6)	3,5	3	876	1.264	1. 264	1. 264	707	Ž	0.611	0.811	1,181	9.879	1, 343	1,266	0,958	0.551	1,527	1,380	2, 130	1.621	3 8	. 621	0.951	1.192	6, 951	0, 678	0,611	289 '0	0.811	0,275	İ
		1				16.078	16.068	_		3	1	300	800		_	976	990	1820	820	698		16,158	_	16. 128		320	120	820	118	15,003	988	90	15, 908 0, 275 15, 988	_
	Ŀ	Sugnifty Cator	(a3/3) Love)	19	2					-	7	116	79 L 16.	31 6	\$ 495 16.018	3, 495 16,076	3, 779 16,068 1, 264 15, 998	3, 779   16, 028   9, 951   15, 944   0, 652   15, 998	15   16.	3 18	9, 925 16, 378				\$ 495 16, 108	3	9	6 15	7 16		1.816 35,988 0,682 16.048	2		
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		'ater	Level	16:358	16, 378	16, 368	16, 368	16, 358	16,356	16, 358 4, 561 15,048 1, 102 15, 948 0, 652 15, 968	16, 298 3, 925 16, 068 1, 264 15, 988 0, 682 15, 958 0, 510	36 21 22 21 15 008 0. 811 15, 978 0. 522 15, 988	16. 258   3. 779   16. 508   0. 811   15. 978   0. 622   15. 598	16, 238 3, 059 18, 058	15, 253	16, 168	16, 288	16, 288	16, 298 3, 925 16, 028	860 21 828 18 088	16, 298.	16,248	16, 248	16,254	16, 269	16, 261 1, 495 16, 028 0, 951 15, 978 0, 622	16.218 2.833 16.648 1.192 15,018 0.379	16.124 L. 516 15.028 0.951 16.058	16.004 1.437 16.018	15, 178	6.128	16.218 1.717 16,000 0,811 16,008	16.104	16.098
	-	Quantity Tator	(43/2)				-	Ч	F	H	F	f	Ξ	Ī	f	٦		=	_	Ī	-	Ī	Ē	ᄏ	٦	٦	٦	=	Ξ		\$1.596 16.128	╗	╗	Ξ
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		Quantity Nater	, eve		200	Sint	26361	22.00	25.000	5.00	13/13/22	2002	20.73	120.00	1777	1	100	12,02	TE UI	班列	HE DA	ş	慧	9	Š	볉	ij	養飲	Į.	16 345	16, 328			
	)an,	antity	(03/0)												Ī											٦								-
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1		Mer	Level	57.73	312	5, 188	5 189	5. 203	15 100	15 198	198	5, 174	5.38	1.04	1,178	5.173	3.188	15, 179	9	5.178	122	392	121	15, 338	15, 348	15, 136	3.00	5.173	\$ 173	15 193	15, 208	15.198	357	15, 169 6, 142
١	¥04,	Quantity Tater	(8/8)	0, 379 15, 278 9, 467	0 370 15 216 0 266	370	9, 370 15, 189	0, 370 15, 204	0.570	0 276 1	0 370 15 198	0, 970, 15, 178	370	딞	긐	0. 570 15, 179	0. 570 13. 188	0.370	14, 338 0, 467 15, 169	0.467 15.178	0.278 13.228	9, 111, 15, 266	9 146 15 378	0 284	1 742 0	0.370	0, 370 15, 246	0, 970 15, 178	330	0.467	0.467	0.370	0.801 15.420 0.135 14.372 0.467 15.195 0.178	Ξ
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ļ		Quantity Taler	i ave	35.430	0,719 15,420 17,519 15,420 6,699 15,420	2	4. 543 15, 620 0, 612 15, 620	15, 420	15.420	1	25.51	15.0	3	٦	Ē	14. 421	0,331 14,488	16.618		1 8	159.11	3. 842 15. 420 2. 094 15. 420 0. 248 15. 098	14.864		14,730	2	=	1	8	0.159 15.099	15, 238	0. 659 15. 420 0. 343 15. 150	7	
İ	3	est Sty	17/2	345.9	5	53.0	9.513	0, 574	0,539	888	0.435	0.447	0.42	515	127	131	0.331	0.312	133	6	7	0,369	235	0.222	0.2.0	1	9	178	169	159	8	577	31.3	0.123
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		Eator	9	15.43	15.45	11	15, 450	15.483	11	15.465	11	15.48	15.460	15.45	15.430	5	15, 555 1, 134 15, 550 0, 675 15, 670 7, 845 15, 600	15, 485	15.48	15, 730	15, 165	8	15 575	15, 530	9 5	15, 815	15, 375	15.550	15, 546	15 540	15, 525	1		
		art)	3	8	틹	5	579	53	0,579 15,485 0,107 15,495 0,107 15,470 0,107 15,550	223	12.5	155	382	큠	7	220	P20 0	0 107 15.485 0 875 15.550 0.348 15.610 0.875 15.550	ē	ā	=	0, 170 15, 660 1, 584 18, 515 0, 170 15, 325 0, 346 15, 340 0, 209 15, 580 1, 372 15, 336 7, 125 18, 160	9 137 15 575	0, 137 15, 550	0.107 15.640 2.513 15.505 0.107 15.510 0.251 15.520 0.170 15.580 1.642 15.600	ž	티	20	101	0 107 15 540	0, 137 15, 525 0, 236 15, 555 0, 516 15, 680 1, 872 15, 500 0,024	0.719	3	0.057
Tanine Chemi 53	1990 Jan.	Water Quantity Mater Quantity Water Quantity Mater Quantity Water Quantity Water Quantity Water	1	38.470 0.370 15.476 8.137 15.510 0.167 15.535 0.346 15.500 0.687 15.500 0.875 15.500 0.870 15.500 0.875 15.50	2	18.200 0.311 15.400 0.131 15.310 0.131 15.315 0.281 15.110 1.032 15.350 0.310 15.300 0.310 15.200 0.310 15.200	2	2	9	92	2	15. 240 0 15. 15. 490 0 20 1 15. 10 0 10 115. 10 10 15. 570 0 15. 580 1 477 15. 580 1 477 15. 580 0 17. 577 15. 580 0 1 477 15. 580 0 15	9	13.470 9.731 15.465 9.346 15.470 0.579 15.489 0.107 15.540 0.346 15.570 0.205 15.690 2.915 15.00 0.659 15.420 0.599 15.420	15. 485 0. 231 15.470 0. 346 15.625 0. 273 15.310 10. 116 15.350 0. 4875 15.520 0. 407 15.720 9.136 15.530 0.151 15.520 16.270 15.450 0. 41.271 15.420 16.271 15.430	15, 150 0.024 15, 470 0.516 15, 590 0.548 15, 660 3, 246 15, 885 1, 542 15, 510 0, 107 15, 150 2, 197			3	2	2	2				9	3	9	15.49 0 0 0 1 15.50 0 3 0 1 15.48 0 0 0 3 0 1 15.40 0 0 3 0 1 15.50 0 0 3 1 15.50 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3 1 15.50 0 0 3				9	9
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Table 3.3-11 Day Discharge Record of Ui St.1

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16.495 5.721 16.405 14.920 16.445 5.946 16.065 1.198 16.365 1.790 7		16, 195		2 763 16 435	5
15.442 3.544 15.465 5.40 35.405 6.057 16.445 3.916 15.065 1.198 16.385 1.790 3	i i i i i i i i i i i i i i i i i i i	68th 16, 795	2, 500 15. 385 2, 250	16, 295 7, 500 16, 435	3, 631
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1. 002 C 1010 L 1440	12	3003	2.500 16.385 2.250 FREDA		
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17, 155 59, 958 16, 455 4, 275 116, 405 2, 666 16, 385 2, 250 16, 385 2, 250			2,500		
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16, 245 19, 527 16, 485 5, 340 116, 405 2, 188 116, 378 2, 013 16, 385 2, 250			4, 275   18, 375		
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- 5. P46   17. 205   18. 351   17. 325   83. 204   18. 355   3. 165   16. 405   1. 514   16. 375   7. 013   16. 315   1. 790   15. 395		15, 395 2, 500 15, 445	5, 946   16, 385   2, 250	16. 385 2, 250	
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7, 872 16, 505 4, 116 116, 635 0, 965 116, 295		16.415 3.039 15,405	2.763 15.405 2.769 16.465	6. 465 4. 617	
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Table 3.3-12 Day Discharge Record of UI St.2

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Table 3.3-13 Day Discharge Record of Chungroung St.1

	101				13, 152 1, 377	13, 132 1, 132	13, 172 1, 018	11.102 1.23	13, 122 1, 018	15, 202 2, 055	-		-	_	-	-	-	-		-	-	-			-			-	-	-	-	+	_
	100	Suant (1)		12,172 2, 846 15,082 3,624 12,982 0,959 13,182	650 0 22	0,035	0,018	0,005	221 11 500 0 258	0.001	132 0.001	992 0.063	872 0,035	118 0 211	132 1.132	192 9.716	0.02 0.526	01.2 0, 165	052 0.391	062 0. 526	531.0 210	100 0 266	972 6.035	922 0 006	100.0 264	101 0 109	012 0.185	129 0 280	082 0. 624	062 0,463	92 0,714	157 1.231	13, 172   1,646
	Kay.	Pountity Water	(3/6)	2. 624 12.9	13,072 9,540 13,182 1,790 13,062 0,124 33,362 0,059	0,015 12,972	0,008 12,962	0,001 12,952	2,221 12,252	1. 251 1.5. 177 1.1. 646 13. 152 1. 377 13. 627 0. 213 12. 942	1, 132   12. 012   0, 266   12. 932   0. 001	1,918 13,912 6, 165 12, 992	0.035 12.872	0, 063 13, 112	0,006 15,	0, 020 13, 092	5, 665 13, 052	0, 933 12, 452 0, 093 13 072	9,053 19,052	0.11 12.172 0.150 13.042	0, 556 13, 012	0, 172 12, 992	0, 172 12, 972	258 21 241 0	0 172 12 942 0.001	0 221 13 102 0 808	1, 505 12, 172 1, 546 12, 162 6, 509 12, 552 0, 221 13, 012 0, 185	0,008 15,037	2, 598 13, 082	1. 251 13, 062	0, 809 13, 092	9,549 13,142	0, 245 13,
			(#3/8) (#/E#)	15,082	13,002		12, 952	258 21 9	1 598 12 552 9 221	13 622	12.032	9 15, 012	12. 972	3 12 192	12, 922	218 21 21	1 12 592	1 12. 552	0.809 12.882	17, 573	1 154 12 672	1.501 12.062	12, 862	1,015 12, 162	12, 862	12, 852	36 12 852	11, 322	24 13 232	0, 624 13 142	201 21 102	210 (1 12	53 13,032
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-	Mar.			13.012 0.500 1	9,540	0.540	0, 714 13, 172	1.501	1,646 13 152	1 646	1, 939 13, 132	13, 202 2, 095 13, 122	13, 192 1, 932 13, 122	2 256 13 122	2.095	2, 595	2,095	1,938	1, 939 13, 102	511,81 618.1	1, 190 13, 242	1,790	1,790	1,190	1.646	3	1,646			1. 646 13 032	7.790	2	260
	_	Quantity Pater	(#3/u) (repe)	1	12 03	13,672	9. 465 13. 092	2.463 13.162.	0,465 13,172	251 13, 172	13, 192	13, 202	13.192	13,217	13, 202	15.202	19, 207	13, 192	12.132	13.112	13, 162	13, 102	13, 182	13 102	13, 172	300 13.173	111 111	1,308 15,122	13, 162 1, 305 1, 13, 172	L 015 13.172	9, 624 13, 162	13, 182	401.43
	John Top			100	20.50	į.	13,052 0.	13.062	13, 062 0.	13.142	用低力和	meen	TRUM	THE UT	HEDI	机底切巾	III KUU	研覧のれ	HEDN	MEDIN	HEDN	開催切れ	異なりた	0, 114 MM trum	C. 163 MIREVIA	_4	10 21	13.162	13,552	13, 172 L	13,052 9.		_
	130	-	142 (1/20)	-	Į.	*	10		F			_				_					_			13.052 0, 214	585 2 290	23 13 062 0 169 13 162	24 13.072 0.548	13,962 0,653	22	12	13	13, 062 0, 463	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	=	-	537	1	7	3 3813	12.00	\$ 3	7	7.	100	5	12	1	12 00.05	13 3005	11 24 15	15 2003	10 0	12 688	11 000	13 (48)	20 (873)	21	230 11 062	[		25	22 SE	77 (415)	21 0483	គឺ	1
	Re		100		13, 192 0, 182	112 0.193	192 0, 189	13, 202 0, 175	202 0 164	202 0, 151	112 0,138	112 6, 127	182 0.116	182 0.107	13, 142 0, 081	13.142 0.090	13.152 0.068	182 0.096	162 0.096	182 0.032	15, 192 0,084	13, 192 0,040	13, 187 0,074	13, 152 0,068	182 0.066	240.9	0, 372 15, 192 0, 225 13, 172 0, 058	12, 162 0, 054	13.160 9.050	13, 160 0, 047	13, 160 8, 043	13, 160 0, 041	150.0 001 51
	,co	Quantity Water Quantity Water	15457 (5/54)	1, 145 13, 122 0, 221 13, 202	9, 205 13.	0, 196 15, 192	0.15 13.192	0.118 13.	9, 224 13, 292	6, 670 13	6, 319 11.	0, 362 13.	0, 152 17, 182	0, 331 13, 142	0, 304 13,	0, 240, 13,	0, 257   13.	0, 235 13, 142.	0, 215 13, 162	0 454 11, 182 0, 197 15, 182		0.700 13	0, 309 13.		0, 479 13, 192 0, 255 13, 182	0.234	0.229	0, 202	0, 198	0.187	6,174	0,150	47.4
		ty Taler D	Tepal	27.17	12 13 13	0 381 13 122	13, 122	13, 142	0, 825 13, 112	11,182	11 11 112	74 13 192		60 13, 192	35 15, 162	13, 162	13,182	0, 514   13, 182	0 485 13 142	21 11 13	281 21 25	25 13 192	46 13 392	0.439 13.192 0.263	28 13 25	36 13 132	12 132	15.192	25 13 192	281 22 90	13.182	15, 182	***
	8		-	1 1 1 1 1 1	1 01	-	3, 918 0, 911	13.010 0.071		1, 013 0, 90	1,016 0.43	1. 018 6. 73	1.011 6.72	3,018 0,660	13, 010 0, 635	13.0(8 0.583	13,018 0,554	13, 910   0, 51	3 010 0 41		1.382 4.4	13 362 0.425	11, 362 0, 446		2.152 0.45	1.172 9.3	2, 132 0.3	13, 132 0, 348	3 137 0 325	13, 123 0, 304	13, 122 0, 265	13, 122 0, 267	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	'aa'	Quantity Water	(e2/3) Lobel (f82/3) Lobel	0.272 13.018 5.519 33.018	0. 272 13. b14 1. 199 13. 018 1. 059 13. 121 0. 208	13,015 3,380 13,018	2, 022   13, 018	1,354	1, 534 13, 018	13, 014 . 1, 479 13, 014   0, 904   13, 182   6, 620   13, 202	048 0.364 13.057 0.272 13.018 1.335 13.018 0.814 13.162 0.367 13.182	0,344 13.018 7.210 13.018 6.774 13.192 0.562 13.182 0.127	0.244 13.018 11.248 13.018 6.727 13.162	0.244 13.516 22.117 119.518	26, 703	7, 975	5, 840	1 5, 127	048 C. 384 13.028 0.301 13.018 4.563 13.018	0. 272   13, 018   4. 045   13, 352	0, 272   19, 516   3, 528   19, 382   0, 439   13, 192   0, 197	35.5	2.11.2	0, 470 13, 916 2, 421 13, 347	7 388 7	668 0 509 13.048 0.552 18.010 2.141 13.132 0.396 13.192 0.238 13.172 0.062	064 6, 509 13, 032 0, 272 13, 018 2, 160 15, 132	13.014 1.817	1 1.734 18.18%	1,594	1.464	1.348	
		Quantity Pater	12/2	217	212 13 818	0, 272 13, 015	0, 272 13, 918	0, 272 13, 018.	0, 272 13, 916	0, 272 13, 014	272 13.018	344 13:013	244 13.018	244 13, 518	0.244 13.016	0,246 13.015	945 0.364 13.033 0.272 13.018	272 13.016	301 13.018	110,51,272	372 13.016	0,244 13,516	0, 364 13, 619	470 13.018	196 13.018	332 13.910	112.01	0.244 13.014	0.272 23.918	6, 272, 13, 016	6, 272 13, 018		***
	AUX			13,013	13.033 0.	13,033 0.	13,033 0.	13,033 0.			13,037 0.	13,028 0.			13, 528 0.		13,033 0.	13, 033 0.	13,038 0.			13, 026	13, 548	6, 364, 13, 063 6.	13.170	13.005	13.033 0.	13.028 0.		15,033	13,031	13,045	
	101		(3/5)	256 0.434	100 0 301	038 0.201		2,356	039 0,301 13,033	034 0, 301	48 0.364	048 0.384 15.028	036 0,301 13.028.	0, 101	0,301	0.364 13.928	13 0,344	49 6,364	41 6,314	068 0, 509 13, 933	518 10, 103	\$8 0.677	0.509	046 0.364	18 0, 284	69 0 303	68 0 103	043 0,332 13,028	043 0, 132	0,332	0, 333	_	
	Jun. 1390	Quantity Sator Quantity Nator Quantity Sator Quantity Sator Quantity Sator		0, 974 13.0	2.974 13.0	2, 355 13, 03	2, 356 13.00	0, 974 13, 2)	0, 374 [13, 0]	0, 274 15, 0	1,065 13,0	7, 171 13, 0	0 244 12 0	0, 244   13, 038	0, 244 13, 038	0, 244 13, 0	0, 101, 13, 0	8, 254 13, 0	0.364 13.0	0.244 13.0	0, 244 13, 5	:	0, 665 15.0	0.011 13.0	\$ 077 13.9	15, 194 2, 932 13, 6	4,354 11.9	1, 203   13.0			6, 770 15,0	0.434 13.0	
		Sater Du	7	11111	13, 114 0, 974 13,	13 216				19,119	12 124	0 301 14 316 57, 171 13.		_		13, 523	13 031	13 718 1	13,048	13, 023	13, 926		37. 23	13. 538 1	15, 258	15.194	13, 318	13, 528 6, 244 12, 136 1, 203 13.	13 138		13 094	15.058	
	Изу,	or Quantit	(a) (a)	925 9.244	050 0.193	038 0, 301	028 0, 244	028 0.244	028 0.244	021 0.244	034 0, 361	024 0 20	112 0 120		024 0, 244	910	038 0, 301	923 0.264	928 0. 284	028 0, 244	0,012 13,031 0,101	048 0 364	023 0 24	928 0.244	038 0 30	021 0.244	923 0.244	628 0.244	13, 021 0 244	021 0.244	928 0.244	03. 0, 30	-
	104	Mantity Kat	200	0.076	0, 048 12, 938 0, 076 13, 059	0, 138   13, 018   0, 193   13, 038	0, 109 13	0, 109 13.	0,048 13.	0.048 13.	0 027	0.244	0.301 13	0,076 13,	0.076 13	0.634	0.301	0.076 13	0,044 13	0, 677   12, 958   0, 012   13 028   0, 244   13, 029   0, 244   13,	0, 012   13,	0.027 13	0.244  3	0.384 13	0, 201   15.	0, 153 13,	0,048 13	0.048	0.027	0.027 13.	0, 301 13.	0.24 13	
		13 Water 2			12, 938	19   13, 018	12, 538	12, 938	13 12. 178	12.93	12,368	13, 026	13,033	12,963	12, 93,0	13,038	11 618	14 17. 188	19 12, 976	17 12.958	35 11, 958	12, 948	13 62	13,041	13 13.034	11 018	93 12. 978	48 12 378	0.148 12.568	55 12, 968	14 13 038	13,028	
	Mar	ter Duanti	143V	19.0			01.0 118	.018 0.19	1018 0.19	1.038 0.30	0.36	0.43	1.078 0.59	1,068 0,61	1,078 0.59	1.048 0.50	0.63	7, 058 0, 43	7, 068 0.57	1.018 0.61	1.018	10.30	10.1	2,016 0.35	3.018   0.11	3, 076 0, 24	1.018 0.11	6.352 13.008 0.148 32.978 0.048	3,008	2. 998 0, 14	3. 028 0.2	18.026 0.244 13.026 0.244 13.038 0.301 13.058 0.434 33	
	Feb	W KI MEN	103/11/12	1917	0.002 12.978	12, 945 0, 002 12, 998	0.027 12	8,043 13	0.314	0.017 13	0.048	12, 978   0, 045   13, 038   0, 454   13, 028   0, 244   13, 024	32, 931 8, 103 13, 078 0, 590 13, 538 0, 301 13, 928 0, 244 13, 528	0, 027	0.027	0,027	9. 612.13	0, 0.48	0.048	0.027   15.048	0.044	0.04	60 0	0.109	0, 109 13	0, 109 12	0,109	9 354	3 0.45	0,027	0.012		
		ity Mator	(8)/6) 16901	0.027 12.048 0.146 12.976 0.048 12.940 0.076 13.020 0.244 13.118 0.974 13.	227 12, 945		812 21 15. 948 6 027 12 998 C. 10 812 9 12 910 0 159 11, 026 6 . 244 13. 218	27 12, 178	27 13.048	127 12, 958	127 12, 978	127 12. 978	127 12, 991	112 12, 165	177 12. 868	27 12.868	12. 12. 858	112 12. 973	-0.012 12.914 0.048 13.088 0.509 12.916 0.044 13.028 0.24 13.048 10.0	0, 611 12, 968	0.012 12.076 6.048 13.088 0.509 12.958	312 12, 976	912 22 996	045 12, 998	145 17. 950	9.048 12.998 0.108 13.076 0.244 13.018 0.153 13.028 0.244	346 12, 934	0 628 13.048	D48 12 976	048 12 963	048 12. 958	37.6	
Chungarowing Chora St.	1950 Jan.	Water Duantity Water Duantity Nater Quantity Nater Quantity Nater Quantity Sater Duantity Nate	-1	12, 963 0, 0	12, 558 0.027	12, 968 0, 027	0.0 896.21	5 12, 960 0,027 12, 978 0,048 12,018 0,199 13, 938 0,109 13,028 0,244 13, 116	\$ 1.2, 863 0.027 13.048 0.344 13.018 0.193 12.378 0.045 13.028 0.244 13.118	7 32 968 0 027 12 958 0 092 13 938 0 301 12 938 0 046 13 024 13 14	12 888 C 0.027 12 878 0 048 12 048 0 364 12 868 0 0.07 12 638 0 31 13 138 1 068 13	\$ 12, 868 0, 027	10 12,988 0,027	11 122 258   9, 012   12, 948   9, 027   13, 048   0, 617   12, 948   9, 976   11, 928	12 12 15 0 01 11 02 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 12 868 0.027 12 868 0.027 13 008 0.509 13 658 0.434 19 048 0.344 13,028 0.244 13,	14 12 554 0 013 12 954 0 012 12 058 0 434 13 650 0 301 13 030 0 301 13 031 0 101 13	421'S 810 E1 222'0 \$50 E1 198 0 190'E1 982'81 811 E1 332'0 185 E1 900'0 188 E1 150 0 850 E1 870 0 850 E1 210'0 856 E1	12, 958 .D. O	12, 155 0.0	12, 958 8.0	99 12 958 0,012 12 976 0,046 12 948 0,364 12 948 0,027 13 948 0, 364 13,418	20 12 458 0.012 12 996 0.109 12 018 0.192 13 620 0.244 13 024 15 752 20 665 13	21 12 978   0 048 12 988   0 100 13 018   0 100 13 040   0 364   13 028   0 244   13 538   10 911   12.	52. 31. 31. 31. 31. 31. 31. 31. 31. 31. 31	23 13, 874 9.0	24 12 678 0.046 11.954 0.109 12.018 0.193 12.978 0.048 13.028 0.224 13.318 4.335 13.	25 12 978 0.0		12, 918 0, 048 12, 963 0, 027 12, 998 0, 108 12, 968 0, 021 13, 024	28 12 975 0 048 12 958 0.012 13.028 0.244 13.038 0.301 13.026 0.244 13.094 0.710 13.	29 12 985 -0,076	
Ē		₫.	Part Lebel	=	7	3	7	*	*	1	**	-	1	11	21	2	=	12	1	11	==	=	ę	2	22	23 1	2		-	:	77	2	L

Table 3.3-14 Day Discharge Record of Chungroung St.2

	3	Desnity	(8/2)	0. 577	16, 344 0, 571	16, 144 0, 571	16, 144 0, 571	16, 144 9, 571	16, 134 0, 425	1 111							1					-			1		1					-	<b>—</b>	7
	1	Duentity Teter	(e3/t) Lebel	15.174	3	16.1	16.1	16.1	16.1	16.194	-	-	1	-	-	-	-	-	-		-	-	-			-	-	-	0.404	9.69.0	0.40¢	0,768	9,477	-
	_	Duantity Ester Du	(4)(s) [sebel	123	202	1778	8,00	8,03	4034	200		<b>1</b>	24. 14.	93,52	200	502	1 450	ž	ñ	<b>30</b> ,02	2002	100.00	8572	200	202	2,00	Š	100	16, 124   0, 404	16, 124   0, 40	16, 126 0, 404	16.164	15, 176	
	, ea		-	15.044 0,024 16.014 0.001	100.0 250	16, 024 0, 001	024 0,001	16, 924 0, 551	004 0,009	16,024 0,001	16, 054 0, 009	16. 02.4 0.001	16,024 0,001	16, 024 0, 901	924 9.001	100'0	021 0.001	200	200	软件	##.	212	1		14 PE	25.52	100	200	57.78	8022	100g	2000	20.00	200
	167	Quantity Tater	Lebel (03/2) Lebel	0,024 16	16,044 0,024 16,024	0,046 36	9. 045 16, 024	0,024 16	0.045 16,034	0.024 14	0, 024, 16	9, 924 19	0,024 16	0, 024	9, 024 16, 924	0.075 18	9 024 15	0.034	0.024	D. 024	0.484 5	9.046	0.046	9,046	0,024 6	0,026 6	0,074	0,024 &	6,009	0 024 6	0,024	6,009	9.001	ţ
	1	Juntilly Water	(s) [c)c]	16,044	16.046	16.054	15, 054	0, 046 36, 044	0,046 \$5,054	0,046 16,044	0,046 36,044	0, 046 25, 944	0 046 16 044	0 046 18, 044	0,946 15.044	0.006 16,064 0.075 18.024	9,046 15,044 9,024 15,024	2,046 16,044	0,046 15,044	0 075 16 064	0.075 15.134	0,075 15,054	9.112 16.954	9, 112 15,055	0.046 16.044	0.046 15.044	9 946 15, 044	0.045 16.044	0, 046 15, 034	0, 158, 16, 044	0.046 16.044	0,046 16,034	0,046 16,024	0.046
	×		(s/sn) (so/s)	ta e	1218	Ž.	<b>34.65</b>	16.054 0.0	16,054 0.0	16.054 0.0	15.054 0.0	0.054 0.0	16.054 0.0	16.054 0.0	16,054 0,9	16.054 0.0	16.034 0.0	15.054 0.0	16,054 0.0	9 0 550 5	16,064 0.0	15.061 0.0	15.074 0.1	16 674 0.1	16.054 0.0	16.054 0.0	16.054 9.0	16.054 0.0	16.954 0.0	16.084	16.054 0.0	16.054 0,0	16,054 0,0	16,054 0,0
	492	Quantity Fator	(v.3/s) Lebel					-	-				_								-										-			]
		Quantity Vater	(*3/s) [ tebel	į.	<b>1</b>	<b>1</b>	XXX	STATE OF	22	SEE SEE	MEDI	MEDI	RECEIPT	無低われ	解析なれ	#	4	-	£	ŧ	NO.	100	ALEX	360	¥H.	412	0012	T.	100	됳	200	-	1	
	131	Hater Juan		拉莱	34.5	120	ents.	Section :	2002	120	GET.	¥ 100	21,5	Sector	i i	3813	i i	#E	¥2	W.L.	É	Ø1X	<b>1</b>	SET36	¥13	2		1,190	age of	超影	22.0	118	5	41 E
	2	Samilto	(#2/s) Date Label	0,046	2 310 0	0,075	0,048	0.046 5	0,046	0,024	0.016	0,048	0, 924 16	0.024	5, 546 12	0.075	0,046 14	6,075 15	0, 0TS 16	0,046	0 075 18	_	0,045 20		0, 112 22	9, 117 73	0, 117 24	2 111	0, 112 25	6,112 27	0 112 21	0, 112 29	0, 112 30	لية الإندية
			(#3/2) Lebel (9	14,054	16.054	18,004	16.054	18,054	16.054	340'21	16,054	14,054	11,014	14,044	•	_	16,054	16,064	18, 064	16.054	18,064	16.054	16,054	16,074	16,024	16, 074				16,074	16.074	16, 974	15.074	1.6.0.1
	ş	or Quantity Tator	_	16.044 0.024	16.044 0.024	16.054 0.046	-					16.954 0.016	16,064 0,075	054 0.04E	054 0.046	054 0,046	16,054 0,044	16.054 0.045	16.054 0.046	16.054 0.048	16,044 0,024	064 0.075	044 0.024	944 0,024	964 0.075	064 0.015	064 0,075	064 D.075	16.054 0.044 16.074	14.064 0.075	16.064 0.075	16,064 0,075	16.064 0.075	+
	ă	Cuantity Meter	(4/4) [14/6]	1,043	0, 974 16,	9. 976 16.			0, 162 16.	0, 837 15,	0, 52 16,	6, 715 116.	0.472 14.	0, 599 16, 122 20, 451 14, 122 0, 424 16, 054	0.598 16.121 26.686 15.122 0.587 15.054 0.946 16.054	18, 122 7, 356 14, 122 6, 547 15, 054 0, 046 16, 054	0,311	0.478 16.	0,441 15.	0,419 16.	0,405 15.		2, 590 16, 054 6, 412, 19, 044 0, 024	9, 405, 14,	0.365 16.302 2.915 16.122 2.165 16.054 0.366 16.064 0.075	\$10.31 21 21 11 12 12 14, 054 0, 365 15, 364 0, 185 2 15, 364 1 18, 054	16, 202 1, 222 18, 122 1, 995 16, 054 0, 343 16, 064	1, 753 16, 054 0, 321 16,064 0,075 14,074	6, 300 16.		0, 763 16,	0.246 16.		0.217
ļ		Quantity Kater	Lebel	221 81 86	50 16 122	16, 122	22	=	22 18 122				23 16 122	57 16 122	15, 122	227 18 95	95 16, 172 0, 311	14, 122		54 15, 122	150 31 15	16, 054	90 16.054	26,054	85 16, 054	78 16,054	95 16, 054	16,054	05 16:054 0.300	75 15, 044	1, 354 16, 054			15,044
	35		(a)/a) (ca)/a)	16, 122 5, 098		16, 122 3, 122		ـنــا	╙	ㄴ	_			1 02 22 9	9 32 22 9	6, 122 7, 9	16, 122 5, 395	18, 172 6, 733			18 122 3 351	8 122 2.9	5 2 221 5	1 122 2.4	1 12 2 1	1 1 1	1 122 1 9	16 122 1.7			Ŀ		_	-
	YOF	pantity fater	(93/6) Lebel	0.696	0.638	0.667	[3	79	0 647	0 541	0.647	0.589		1 589		68.0	6.694	0.647	970	111	0.85	1 147 1	16, 262 2, 151 16, 122	*	2.915	. 33	222	260	0.717	ž	2	9.69	0.696	1.812
	-	Quantity Rater	(43/4) Lebel	7 1. 812 15, 157	1,812 36,157	1, 812 18, 152	1, 502 14, 152		0.910 16.152		1,092 16,152	817 16.14	800 16, 14	11 11 11	57   0.495   18.347	17 1 . 030 15, 147	747 18.537	16. 15.	12 0.970 16.142	0,600 14,172	0, 100 16, 17		16. 26	260	355 11.30	16.27	222 116.20	82 0.970 16.192			0 747 16.162		57 0.694 14.157	57 0. 596 15. 242
	131		91		10.243	15	4 ~	-	-			16. 252. 0	18.147	16, 157	16,157 6		0.555 16,162 6,747	0.467 16.157 0.696	2	-	1.	16, 157	16.157	2613	16.372		16 202	16, 182	4.034 16.212 1.358	2, 915, 16, 142, 1, 092	2	5	16, 157	
	š	St. Buant to	(a5/a) Lebe	1 -	┡-	1				32 0.467	217 77	62 0 970	52 0 447	42 0.553	132 0.457	12 0.467 16.10				142 0 555 16.	1 358	5.335	23, 108	1	282		20.05	562 10.714 15.1	_	⊢	1		_	<b>⊢</b> I
	7,5%	Countity Taier Quantity Sates	(s.1/s)	0 253 16 132	9, 553 16, 32		0.917 16.777	0.317 15.122	6 253 18 125	0 253 16 137 0 667 18.34	0.467	0.467 16	0.253 58	96 509	2, 647 16.	0.400 16.137	3, 847 16, 142	0 747 14 132	0 747	0.747 14.142	0 800 16	0. 647 18, 462	0.447	0 259 18 487 7 72 7 16 192 1 092 16 332 2 885 14 122 2.478 16 054 0 405 16 044 0 024	0 467 56, 282 2, 519 16, 1	0.384 16.252	0.389 16.762 20.050 16.202 1.222		2 313	0.317	9 289	0.389 16.	0 369 14	0.467
		Quantity Water		16.182	16, 142	16.142	:	0 174 16 117			15 16 132	14, 152	74 16 102	14 16 137	19 16 152	0.317 16.167		16.162	70 16 162	24 16 162	52 16 167	24 16 152	52 34 152	24 15 157	26 15	17 15 122	57 16 122		1 × 11	E3 112	53 16 172	16 077 0 104 16 112 0 317 16 172 0 389 16 242	16, 062   0, 064   16, 102   0, 253   16, 122   0, 369   14, 242	18 132 0, 467
	Ap),				16.082 0.3		100	011	K 077	0.524 16.067 0.085 16.107	1.067 0.0	0 22	0 220	072 0	207 1 2	4, 112 0.3			4 087	151	102 0 2	4 097 0.2	1 102 0 2	90	0.253 16.082 0.146 14.097 0.224 18.132	1,12	0 146 14 132 0 467 16 122	132			10.2	113	6 162	
	, Te	مب		7	0 124 71	1,10		2.0 9r Por U	1	123	0 124	-		121	1 0 317	2 6 253 14 112	182			690 0	196 0 1.4	6,00	900				7,10					100	1 0 0 0	2 0.069
	4	buantity Kater	(a.S./e)	D.1 16 D.17	041 16 077	10 01	1	1 2		144 : : 07	14.8 16.97	10 11	14.07	17.1	124 11. 11	16 032 0 146 16 107	11 10	22 11 10	12.	10 91	10 11	346 56 06	174 14 08	31 91	253	148 14 03	0 174 11 087	0 174 15 087	18 081	124 14 017	12.	16 21	16.08	16.042
5: 2	)			0		100		-	6 613	12 017	16 002	1	-	40	C. 81   15   15   15   15   15   15   15	16.032	0 070 14 012 0 145 16 107 0 253 16 092		1	0 6.00		4 187	1,0		0 041 16 162 6		1,00	16 077						
Chungroong Chong 55.	90 Jun.	or Countity Rater	(1/10)	1		4 1E 042   5 020 1E 052   0 042 16 077	C. 10 Car   10 Car   10 Car   10 Car   14 Car	4 1 15 0.27 0 0.00 16 0.07 0 174 15 0.07	6 15 667 0 036 16 617 0 174 16 677 0 174 16 617 0 184 16 037	1 0 2 1 1 0 12 0 2 0 1 0 1 0 1 0 1 0 1 0	AF 0.2 0.000 16.000 0.116 16.017 0.124 16.057 0.005 16.192 0.467 16.242 1.412 18.192	0.00	920 0 676	SE 527 D 020 16 077 C 171 16 077 B 121 15 072 D 104 16 137 C 509 16 122 D 555 16 152 0 447 15 147	100 00				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 042 0.070 16.677 0.124 16.042 0.069 16.157 0.698 16.152	36 555 5 542 16 012 0 146 16 050 0 069 16 102 0 255 18 167 0 800 16 212 1 958 16.11	14 05T 0 054 14 087 0 146 15 067 0 069 15 091 0 224 16 152	T 25 2 36 15 15 15 15 15 15 15 15 15 15 15 15 15	15 645 0 041 15 682 0 050 16 672 0 104 15 097 0 224 13 127	16 057 0 061		-			1		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		16.052 0.041
Chum	-	Zater	4	-	•	-	-	-		-	-	-	9	=	19 11 087	:	14 14 045	=	1 =	,				2 6		:	;	*	2	A	= =		3 9	91
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Table 3.3-15 Day Discharge Record of Chungroung St.3

	3	Past 11.	(3/6)	135	1,277	133	212	7.27		_		ŀ	Ŀ						-															Γ
		Kater	*	25.191	25.201	272 25, 191	25, 201	102,23	15, 201	25.243						Γ		-					_											
-	Jen.	Countity Rates	(2/(2)	1.277	1.77	1.77	1. 566 25, 201 1, 772 25, 201	1, 772	212	1, 135	1, 135	1.272	1. 272	1.772	2772		2.23	1. 272	1,212	1, 272	1,277	1, 272	1.272	1 272	122	1.616	1, 007	1.00.1	1.007	1.007	9.667		1.416	-
		1	2	25.201	25, 201	25, 701	25, 201			25, 191	25, 191	25, 201	25, 201	25, 201	102 23					25, 201	25, 201	25, 201	\$ 201	102 %	100	5,211	25. 187	25, 281	25. 151	181.82	151.35	25, 191	25, 211	-
	2	Duant ! ty Kator	(2/(2)	1, 568 25, 201	1, 564	1,568	3.56	1, 568	1,566		1, 568	3, 568	1, 568	1, 116	1, 568 25, 201	1, 565 25, 701	1, 562	1, 568 75, 201	1, 568	1.568	1,568	1 568	1.416 25.701	102 22 815	7	1 3 5 1	3,436 2	1. 728 2	3,284,2	1,728. 2		7	. 272 2	-
		f	~~[	25 22	25. 221	25. 221		2,23	1 728 25 221 1, 568 25, 201	223	_	Н	25.231	25, 211	122 52	<del>}</del>		5, 723		122.3		223	2112	1	1,726 25, 211 1,416 25, 201	1177				25, 731	2531	15.20	25, 201	L
	15	Bearlity Tater	(62/2) Lebel	1 895 7	1 778	173	1, 728 25, 221	188	1	77.	1, 564   25, 221	1 559 25 771	1,568 2	1, 568 2	1 568 2		726 2	1 728 25, 729	728 2	722	198	L 515 25 721	1 295 25 711	1.895 25 211	22	228 2	728	723	1, 728, 25, 511	7, 562 25	128 23	1.72	1, 583 29	
			- 	1, 728 25, 241 1, 895	75 231	182 62	25. 23	1. 568 25, 221 1, 568 25, 271 1, 568 25, 201	2	1. 695 25. 221 1. 568 25. 231 1. 729 25. 21 1. 568		_	_		25, 221	_			1,568 25,21 1,728 25,241 1,695 25,231 1,728 25,221	1, 133, 25, 271 1, 724 25, 241 1, 895 75, 291 1, 776 25, 721	1, 728 25, 291 2, 849 25, 221			23, 241		1.728 25, 271 1, 728 25, 211 1, 416 25, 211	1, 728 25, 231 1, 728 25, 231 1, 728 25, 231 1, 728 25, 211	1,728 25,231 1,728 25,237 1,728 25,231 1,728 25,231		_,	25 201		25. 223	
	187	Duantity Kater	1970) 1551	123	1. TZ8	1, 728	1,726	188	1, 728 25, 231	55.5	25. 241 1. 895 25. 221	25, 251 2. 070 25, 251	25.211 1.695 25.221	2 070   25 221	L. 895   25	1, 595 25	2, 070 25	2 070 25 211	595 25	25.23	728 73	1 728 23 241	1 895 25 241	1.095 25	1 495 25 231	228 225	728 25	728 25	1. 726 25, 231 1. 728 28, 231 1. 728 25, 231	1.895 25.221	2,495,75	1, 495   25, 251	195 25	300
					=		25.231	75.771	- T	72	192	7		25.25	25, 241	25, 241	-			1		25.231	25.241	35.241	L	100	1	12	12					_
	Fcb.		(0)(0)	25.	52 88	1.738 25.231	1.555 25.	1. 564 2.5	1, 728 25, 231	695 25.	2	-1	2	-1	22	12	2 645 25, 75	2, 070 25, 251	178	12	12	23	1,721 25.	1,568,35	120 25	1. 695 25. 231	128	22	120	23 25	138 25 341	25.24	25, 241	76 747
	Ť		3 3	23, 221 3, 505 25, 231			-	-	_}		uu Du	티	딦	핕	nt.	닯			킄	킄	18 25, 231 1, 726 25, 231 3, 726 25, 231	1, 728 25, 221 1, 549				=	1	<u> </u>	7	27 25. 231 1. 128 25. 231 1. 128 25. 241	25, 231 1, 328	+	-	_
İ	-	Mantity Mater		2	*	-	4	127.52	272 33.231	1,007 25, 241	1.135 超版初和	25.201 1.272 HINEDA	10 25.211 1.416 用終57元	11 25.211 1.416 知能切れ	1, 568 円板切れ	1.568 用能切れ	1, 568 25, 281	68 25.25	1	3	28 25.2	2 2 2	1.72 25,231	28 25. 231	28 25.231	1,728 25,241	75.2	25.2	12.2	2	2	1	3	
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1	2		(83/8) (910	0.020	9.026	1000	200	9200	9707	0.013	_		- 1			0.042	I			. ł	1	L	4	4	1	4			_	_	1	_	-4	_
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	-	ity Water		13	157.62	0.036 23.24	5, 026 25, 321	2		13 25, 241	28 25 241	25.241	4	22.23	26 25. 2	2	3	127 27	25. 23.1	25, 241	13 25.24	<u>2</u>	27	7	25. 22		12 22 23	12 25 071	0.026 25.071	25.0	2	22.0	2 25.0	2
	À	Cantity	+	+·	+-					щ.		0.026	3	25, 251 0, 026 25, 241 0, 019	0, 378 23, 251 0, 026 25, 241 9, 026	4.123 25.038 0.306 25.251 0.026 25.241	23.276 2.542 25.034 3.020 25.036 0.285 25.251 0.076 75.251				0.013	6,270 25,251 0,012 25,241	1, 206 35, 251 0, 210 25, 251 6, 013 25, 231		-	-	_			٩	25, 251 9, 942 25, 971 0, 953	0, 38 25, 241 0 042 25, 071 0, 055	1, 352 25, 036 0, 642 25, 261 6, 129 25, 241 0, 047 25, 071 0, 059	_
-	1	Dountity Taker	7 20 21		0 2 2		25 22 0 0 0 0 0 25 25 251	2	4444 4.000 4.000 4.140 75.020 0.840 25.038 0.426 25.241			25.24	12 22	22	25. 2	2 3	7	2	0.251 25.251	\$ 25, 261	75, 261	2	2	2	(5, 61 U. 717 ES, 731	107 52 502 6 52 53	25.241	22.731	15.21	72.21	2	22.24	12.2	_
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	1	(at/v) lebel Conntity Fater	7, 859, 55, 036	72. 12.	20 20 20			2	2	25 52 407 0 000 CZ 567 7 7 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42.024 6.43 42.634 6.43 43.634 6.430 23.938	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	100 E	23 038	13, 808 25, 036	20 22	력 역	8	23, 201 2, 745 25, 076 2, 359 25, 026	2, 749 29, 636 2, 101 25 231		25 24				20 22	2	274 2010 421410 11 204 20 000 0 976 25 25	2	2 2	(C C) (C)	0 697 75 261	22 29	2 23
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		Cut/u) Taker	2	Ŀ		30.00			8				200	20 62 26 7	25.036	12, 03		9	22		2, 143 23, 036			4 711 75 000	3		8				200	90.02	2. 120	
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	ž	(mt/c)   chal	5, 256 2, 161 25, 246 2, 745 25, 035	5 254 9 161 95 244 9 245	2 161 25 246	1				1		250 27 25 27 25 25 25 25 25 25 25 25 25 25 25 25 25			3				102 27 271 3 101	107.63	107.00	1	ľ			250 20 20 20 20 20 20 20 20 20 20 20 20 20	1	3	210 20 212 202	200 20 200			†	755 7.745 4 75. 454 1 7. 369
	8		38	25. 25	35.		7		3 :		1	,	3 3 3 3		1	1							1	:								1		
1	<b>1</b>	(1/2/4)	0 713	0.719	13	0 710			25, 036 0 147 25 155 0 710	D 548 25 646 0 252 25 14c 6 71c 25						210	C 118 (49 (49 (49 ) 40 (4) (4)		O 350 75 050 0 450 55 550 0 550 55		,		1		0, 719 25 268 2, 745 75	,	1	25,036 6,082 25,636 0,138 25 (46 0,617 25 466 5,194 25	1	2 22	25.036 0.058 25.036 0.178 25.146 0.617 25.276 7.547 35		457	1
l		- F	35.	351.5	×	2			3	-							+	•		1			-	ř	288	96		1		*	ž	] ;		-
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## Chapter 4 Recommendation of Monitoring and Supplement Survey

## 4.1 Rainfall Observation

## (1) Raingauge Station Network

It is considered advisable to install raingauges every 30 to 50  $\,\mathrm{km}^2$ . The raingauge station densities of each basin, which include the existing raingauges and those installed by JICA, are represented in Table 2-1.

Table 4-1 Number and Density of Raingauges

Basin	Existing	g New	Density
Anyang	7.7	3	28.7 km <sup>2</sup>
Yangjae	4	· · · · · · · · · · • · • • • • • • • •	14.8
un <b>ui</b> ge unige de la comp	3	1	6.6
Chungroung	3	1	9.1

The present raingauges are sufficient and this condition should be maintained.

According to past records, the rainfall pattern of Songbulsa in the Ui Chong Basin are slightly different from the others and its cause is still unknown. In order to find its cause, it is necessary to continue the observation. If the present location is judged to be improper, a movement of the instrument should be considered.

## (2) Maintenance of Self Recording Raingauge

Attention must be given to the following points.

- 1) The following must be changed periodically.
  - Chart paper once a month

- Recording pen every 3 months
- Battery every 3 months
- 2) Calibration
- 3) Time Adjustment
- 4) Removal of waste in the cup
- c. Reading and the arrangement of the chart data

The data should be arranged 10 minutes, 1 hour, 1 day, 1 month and 1 year, immediately after changing the chart.

#### 4.2 Discharge Observation

#### (1) Reforming Watergauge Network

The present self registering watergauges are located in the 15 places which the preliminary study team chose. It is advisable to relocate the watergauge at St.4 downstream of the Kehwa Chong in terms of investigating river water balance and pollution balance, because Kehwa Chong has the widest basin among the tributaries of the Anyang Chong. It is, therefore, necessary to understand correctly the discharge and pollution input loading of Kehwa Chong in order to properly establish the water quality and flow-regime improvement plan. The proposed watergauge station in the Kehwa Chong can substitute the existing St.4.

# (2) Construction Work in the River

Many of the Anyang and Yangjae Chong water level data were affected by the construction work carried out in the river. The contractor ought to inform the river administrative body for approval prior to the commencement, and in response the river administrative body should take necessary actions to minimize the influence of the construction works to the watergauges. If it is difficult to implement such actions, the river administrative body should at least keep a record of the construction work description, location, period, etc. for

reference.

(3) Maintenance of Watergauges

Attention must be given to the following points.

- 1) The following must be changed periodically.
  - Chart paper once a month
  - Recording pen every 3 months
  - Battery every 3 months
- 2) Calibration
- 3) Time Adjustment
- 4) Removal of waste and sludge in the pipe Supervision should be conducted quite often if construction work is conducted nearby.

At present, the mode of the chart speed is set once a month. There are no problems, however, if it is changed to once every 3 months mode.

- (4) The data obtained in this survey shows the following strange water level fluctuation pattern.
  - 1) The backwater of Han River, which was caused by a tidal wave at St.1 and 2 in the Anyang Chong, resulted in water level fluctuation.
  - 2) The Anyang and Chungroung Chong water level remarkably fluctuated during the dry season.
  - 3) The watergauge floats freezed and melted from December to February resulting in water level fluctuation.

Data reading should be conducted cautiously so that the above mentioned data will not be included in the basic data.

#### (5) Discharge Survey

It is necessary to prepare the accurate H-Q curves by carrying out discharge survey at various water levels so that discharge can be

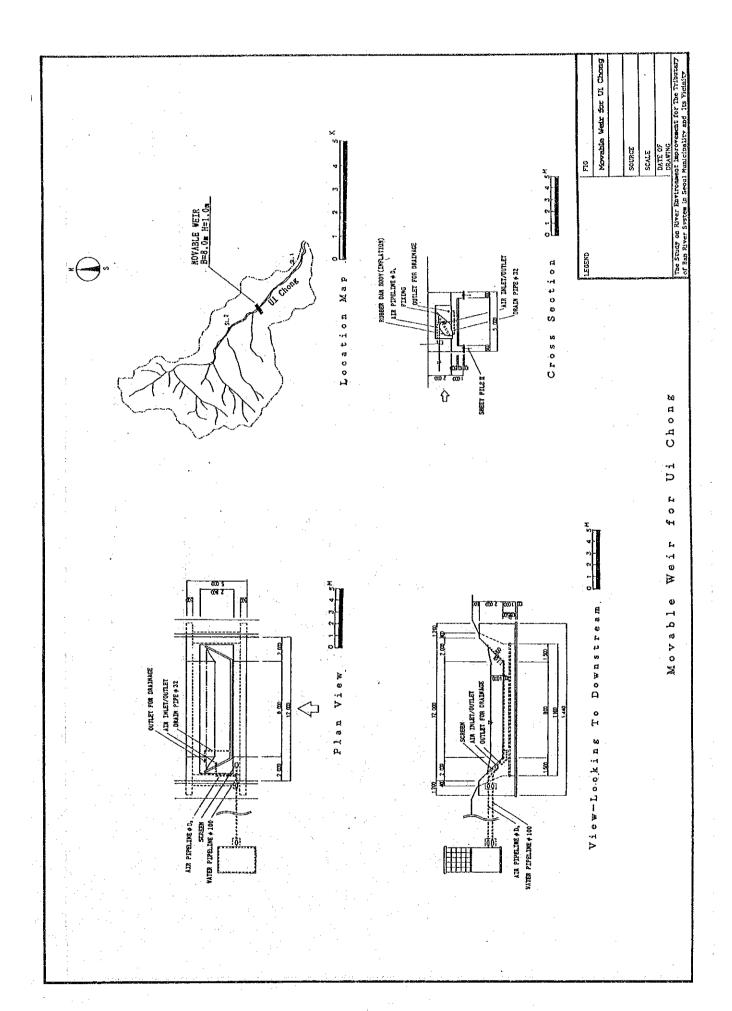
computed by means of water level data. This study has prepared the H-Q curve of each observation station. The accuracy of the H-Q curve, however, can be increased through repetitive discharge observations.

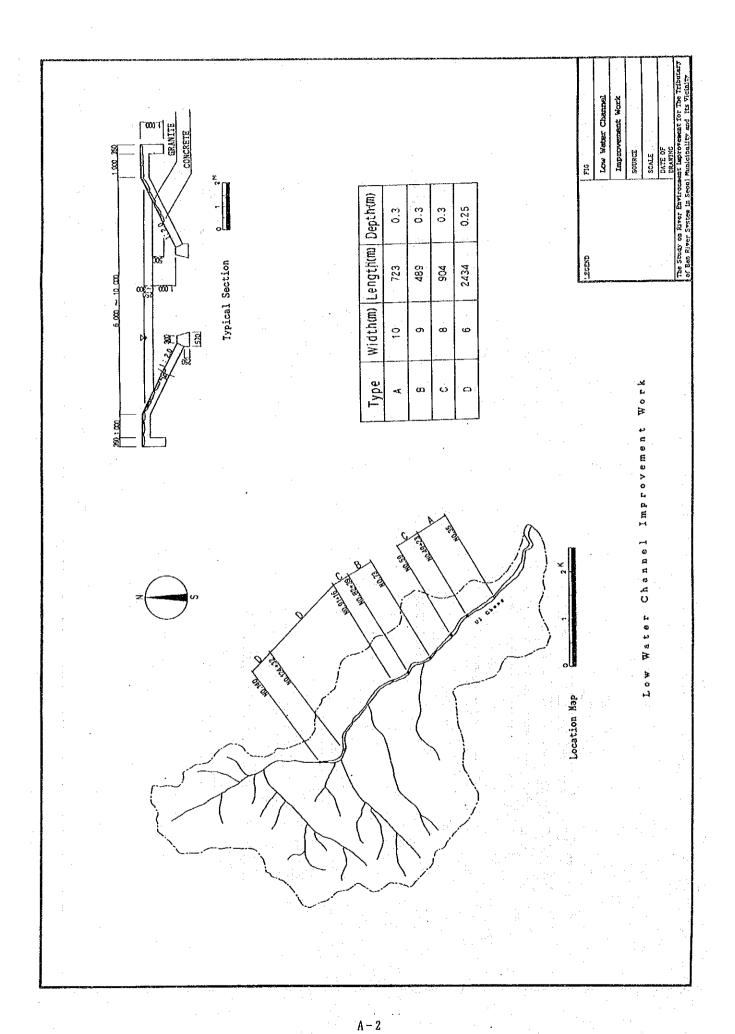
Due to the depth and the thick bed sediments of Anyang Chong, it is very difficult to carry out discharge survey unless a boat is prepared. However, it can be conducted easily in Yangjae, Ui and Chungroung Chong.

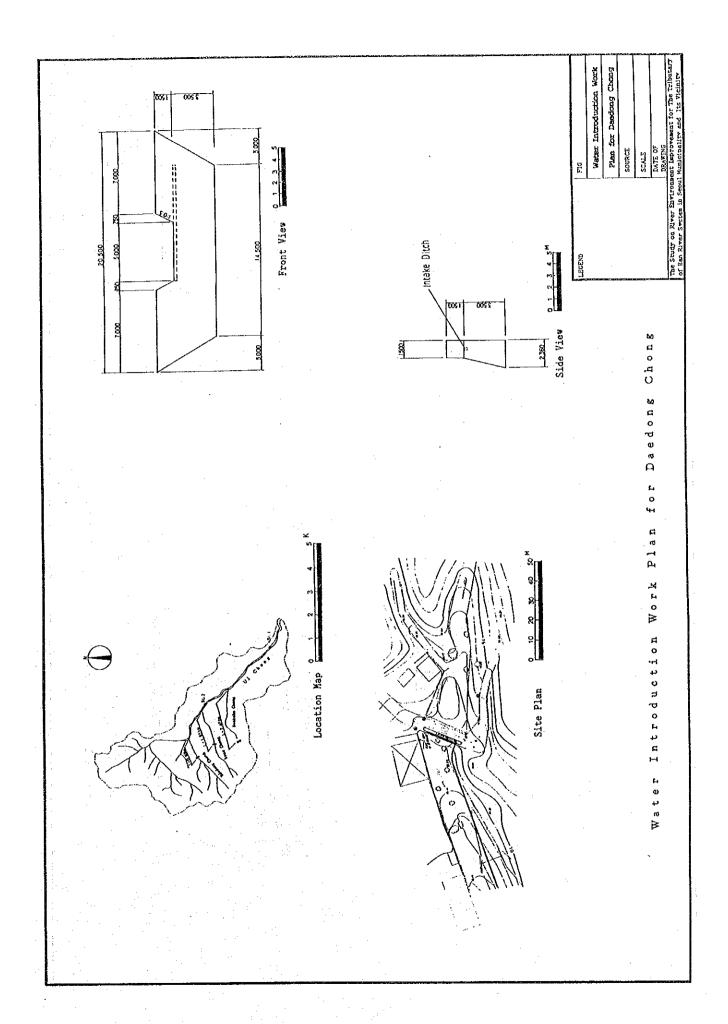
In case the river cross section varies largely due to construction or flood, a new H-Q curve should be prepared based on new survey data.

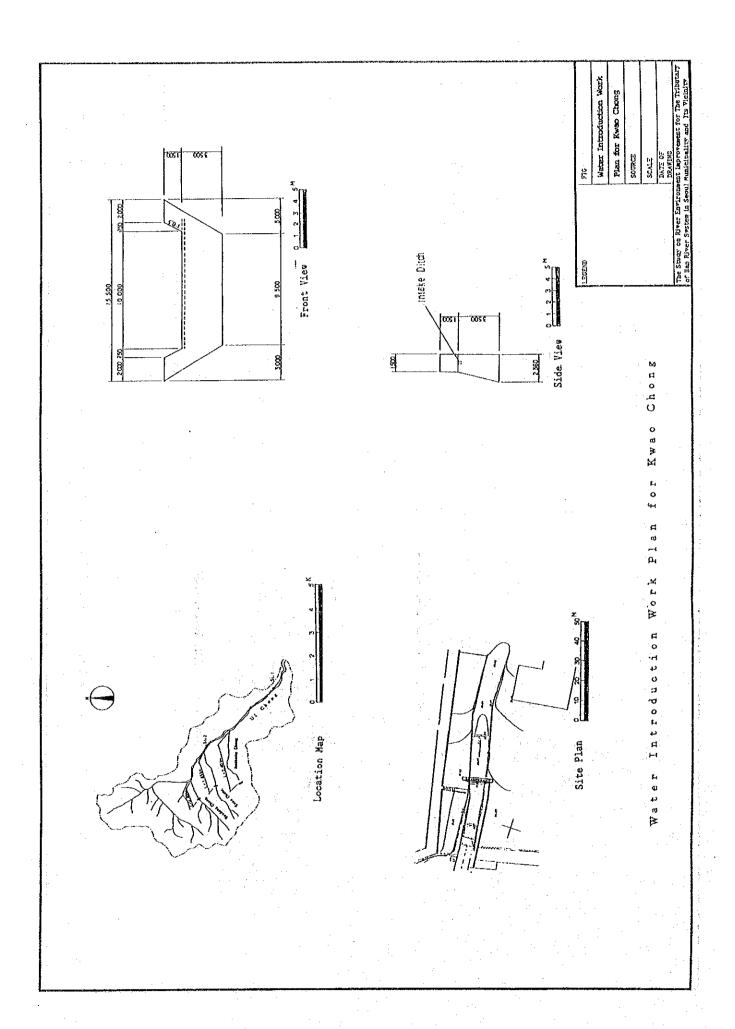
## Annex

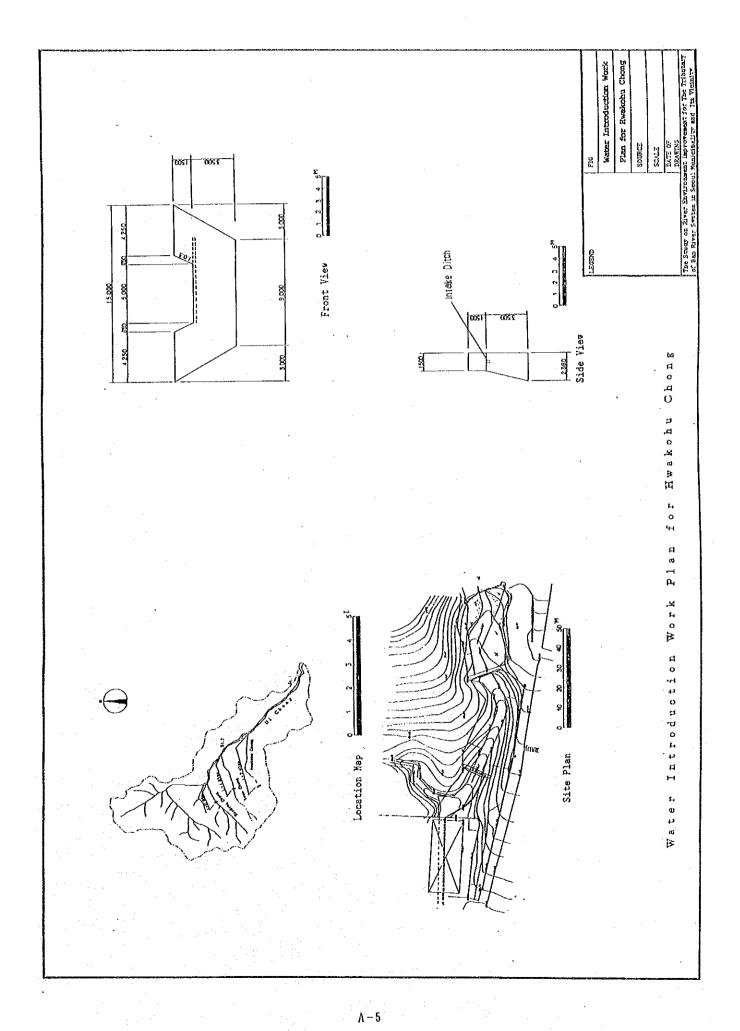
Drawings for Flow Regime Improvement Work











# SUPPORTING REPORT II

WATER QUALITY AND SEDIMENT QUALITY

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## Abbreviation

As Arsenic

BOD Biochemical Oxygen Demand

Cd Cadmium
CN Cyanide

COD(Mn) Chemical Oxygen Demand by Potassium Dichromate Method
COD(Cr) Chemical Oxygen Demand by Potassium Permanganate Method

Coli-form Coliform Bacteria
Cr<sup>(6+)</sup> Sexivalent Chromium

DBOD Dissolved Biochemical Oxygen Demand
DCOD Dissolved Chemical Oxygen Demand

DL Dried Loss

DO Dissolved Oxygen

EC Electric Conductivity

H<sub>2</sub>S Hydrogen Sulfide IL Ignition Loss

MBAS Methylene Blue Active Substance

MPN Most Probable Number
NH<sub>4</sub>-N Ammonium Nitrogen
NH<sub>3</sub>-N Nitrate Nitrogen
NH<sub>2</sub>-N Nitrite Nitrogen

Pb Lead

PCB Polychlorinated Biphenyls

pH Potential of Hydrogen PO<sub>4</sub>-P Phosphate Phosphorus

SS Suspended Solid

SS(IL) Ignition Loss of Suspended Solid

TDP Total Dissolved Phosphorus

THg Total Mercury

TKN Total Kjeldahl Nitrogen

TN Total Nitrogen

TON Total Organic Nitrogen

TP Total Phosphorus
TR Total Residue

TR(IL) Ignition Loss of Total Residue

Turbid. Turbidity

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#### Water Quality and Sediment Quality

Chapter 1

#### Introduction

The small river waters of Han Guang System in Seoul have seriously been polluted but the discharges have greatly been decreased accompanying the development of the areas surrounding the rivers. People who live near the rivers have desired for the return of their environment and waters to their former conditions.

This study was proposed to complete the above mentioned, and the four rivers of Anyang Chong, Yangjae Chong, Ui Chong and Chungroung Chong were chosen for conducting this study.

The water quality and sediment quality were surveyed on Anyang Chong several times in the past. On other rivers, however, no study was carried out.

On Anyang Chong, surveys were conducted by the Government of Seoul from 1984 to 1987. This results showed that BOD in Anyang Chong was very high around 200 mg/l and COD(Mn) and SS were also obtained in quite high values. However, after that, the intercepting pipe was completed, and industrial waste water was treated.

The survey this time has been conducted for getting further informations including daily change, monthly variation, freshet time and side-inflow of water quality, and sediment quality including benthos on Anyang Chong. New information about those from Yangjae Chong, Ui Chong and Chungroung Chong were tried to be obtained for taking measures. The sampling stations for water and sediment were set up and the survey on these stations was started in January, 1990, and continued to May, 1991.

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- 2.1 Survey and Sampling for Water Quality
- 2.1.1 Regular Sampling for Monthly Variation
  - (1) Survey and sampling station

Stations for survey and water sampling were set on the four rivers of Anyang Chong, Yangjae Chong, Ui Chong and Chungroung Chong (Fig. 2.1.1-1).

These stations on each river were chosen to cover the study area in Secul.

The surveys and samplings were done regularly once a month from January, 1990 to May, 1991.

The surveys and samplings were conducted at the surface on the center of the rivers.

However, construction on the mouth of Torim Chong, A-St. 3, for the repair of the intercepting pipe was carried out from February, 1990, to January, 1991. The water qualities at this station showed the effect of the construction.

On Yangjae Chong, construction was also started from July, 1990, and is still continuing on the riverbed for the length of the river.

Comment of the

Ui Chong had a short period of construction in June, 1990, just in the upper part of U-St. 2.

These constructions surely affect the results of water qualities and therefore, must be taken into account when considering the results.

#### (2) Measuring and analytical items

Measuring items for regular samples are below:

WT, pH, DO, COD, BOD, SS, NH4-N and NO2-N from January 1990 to May 1991, and measurement of coli-form bacteria groups from June 1990 to May 1991.

EC and turbidity were sometimes recorded depending on the equipment use.

#### 2.1.2 24-hour-survey and -sampling for Hourly Change

## (1) Stations for survey and sampling

Stations for hourly change were set on the same stations as the regular samplings (Fig. 2.1.1-1).

The surveys and samplings were started in July, 1990 and continued until May, 1991. It was conducted every two months to obtain hourly changes of water quality resulting from daily activities of population in the area.

These results were expected to provide basic information for the planning of river water treatment facilities.

Samplings were taken 13 times within 24 hours at the interval of 2 hours at every station.

#### (2) Measuring and analytical items

Analytical items for these surveys were the regular analytical items plus oxygen consumption rate, Dissolved-COD, Dissolved-BOD, MBAS, settleable SS matter, sulfide, Total-N, Total-Dissolved-N, NO3-N, Total-P, and Total-Dissolved-P.

Coli-form groups were not counted for these series of samples.

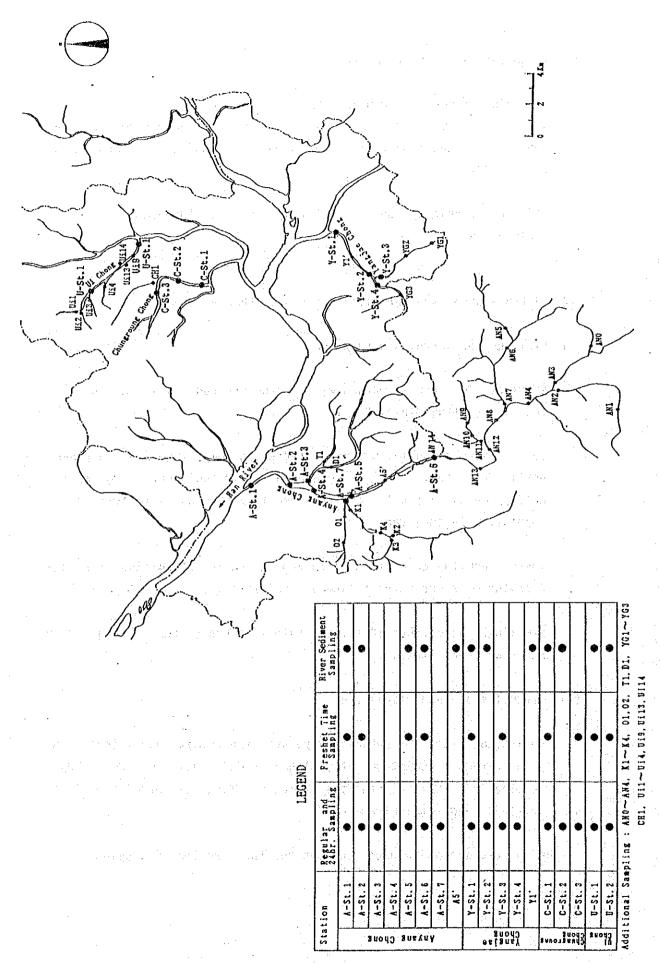


Fig. 2.1.1-1 Sampling Station for Water Quality and Sediment Quality

# 2.1.3 CN and THg Measurement

The state of the state of

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Hopefully CN and Hg do not appear in the river water, even in the case where waste water is discarded without any treatment from the industries in the area.

The water for these analyses were sampled in July, August, November 1990, and from January to May, 1991 on the same sampling dates and stations as the regular monthly samplings.

# 2.1.4 Survey and Sampling at Freshet Time

In Korea, freshet occurs almost every year from the end of June to early September. River condition during freshet is significantly different from the normal.

The water in the first flush to the rivers is thought to have high concentrations of contaminants due to inflowing from inside and outside the rivers.

# (1) Station for freshet time survey

Water samples were collected at the selected stations from the regular ones during the freshet on each river (shown in Figure 2.1.1-1).

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# (2) Sampling date for freshet time survey

Anyang Chong: September 10-11,1990

November 9, 1990,

February 27-28, 1991

Yangjae Chong: August 31, 1990

November 3, 1990

February 27-28, 1991

June 10-14, 1991

U1 Chong: August 31, 1990 November 3, 1990 February 27-28, 1991

Chungroung Chong: August 31, 1990

November 3, 1990

February 27-28, 1991

July 1-3, 1991

Some results from these surveys, however, do not show the suitable water quality and conditions of freshet time. Therefore, those results were omitted from the discussions for freshet time.

Samplings were usually done 13 times during the freshet at an interval of half an hour or an hour. The last time on Yangjae Chong and Chungroung Chong, however, the water sampling and surveys were carried out to get the whole figures of the water quality and pollution load brought about by freshet within 3 or 4 days.

#### (3) Analytical item

Analytical items for these survey from August to February were the same as those for the regular surveys.

COD(Mn), COD(Cr), SS, SS(IL), TR, TR(IL), TN, NO3-N, NO2-N and NH4-N were analysed for the last survey on Yangjae Chong.

Items mentioned above plus PO4-P and Cl<sup>-</sup> were measured for the last time in Chungroung Chong.

## 2.1.5 Survey for Self-purification Capacity

In one section of Yangjae Chong between the Yong Dong 2nd Bridge and the Yong Dong 5th Bridge (flow-down duration: 1 hour and 14 min.) and in two sections of Ui Chong between U-St. 1 and U-St. 2, the self-purification capacities were measured on September 19, 1990.

In these sections, water velocity was measured using several buoys which were followed by surveyors from the first point to the second point.

Water was collected at the first point where the buoys were placed, then at the second when the buoys reached that point.

BOD was measured by the ordinary method, and TN and COD(Cr) were analysed using HACH Water Analyzer.

#### 2.1.6. Survey on Side-inflow into the Four Rivers

There are many small inflows from both sides of the banks on the four rivers (see Figs. 3.1.4-1, 3.2.4-1, 3.3.4-1 and 3.4.4-1).

Measurements of discharge and water samplings for quality analyses were conducted on every side-inflown of Anyang Chong on June 14-15, 1990, and on June 12, 1990, for Yangjae Chong. COD(Mn) and SS were measured.

Surveys at U1 Chong and at Chungroung Chong were conducted on September 4, and on July 12, 1990, respectively. COD(Cr), T-KN, NH4-N, NO<sub>3</sub>-N and NO<sub>2</sub>-N were analysed by the HACH Water Analyzer.

## 2.1.7. Additional Survey and Sampling

- (1) Water was collected from several points on the inside of four rivers and analysed of COD(Cr), TN and NH4-N using the HACK Water Analyzer for comparing with the results of ordinary laboratory analyses (Figs. 3.1.5-1 and 2, Figs. 3.2.5-1 and 2).
  - (2) Water was sampled from the outside of the study areas of the four rivers and analysed to add further information on the water qualities inside of the study areas.

(3) From May to July, 1991, water was sampled from the four rivers being accompanied directly with measuring discharges. The comparisons between COD(Mn) and COD(Cr), and SS measured by the ordinary method and SS measured by the optical density method for comparison between COD(Mn) and COD(Cr), and SS by ordinary method and SS by optical density method were archived.

Other items of SS(IL), TR, TR(IL), TN, NO2-N NO3-N and NH4-N were analysed to determine the rough figure of organic and inorganic matters in the water.

## 2.2 Analytical Method for Water Quality

Most water quality analyses were done using the methods in the "Korean Standard Methods for the Drinking Water and Waste Water".

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gradien geraal die 1905 gebeure daar teer die gebeure dit 1906 gebeure 2006 gebeure 2006 gebeure 2006 gebeure 2

Analyses for sulfide,  $NO_3$ -N and CN followed the methods of the "American Standard Methods for Water and Wastewater".

COD(Mn) were measured by using the Japanese method of KMnO4 (oxidized and heated in the water bath for 30 min.).

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## 2.3 Treatment of Obtained Water Quality Data

Data included in the results of the regular monthly surveys, which were obtained from 24-hour surveys, were treated statistically, i.e. statistically larger or smaller values were omitted for estimating the mean values. Values which were extraordinarily larger or smaller wherein the causes affected were known was also omitted. Then these mean values were sited under columns.

Other values, which were known to be affected by some causes were explained.

2.4 Survey and Sampling for River Sediment Quality

## 2.4.1 Station

In the Fig. 2.1.1-1, A-St. 1, 2, 5, 5' and 6 on Anyang Chong, Y-St. 1, Y' and 2 on Yangjae Chong, U-St. 1 and 2 on Ui Chong and C-St. 1 and 2 on Chungroung Chong are the sampling stations for the river sediment survey.

# 2.4.2 Sampling and Analytical Item and Method

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(1) River surface sediment was collected by dredge from the central part of each river on December 5, 1990.

The following items were measured and analysed for sediments:

Particle-size, PCB, Organic-P, CN, As, Cr+6, Cd, Pb, Sulfide,

Drying Loss and Ignition Loss by the method of

"Korean Standard for the Sediment".

Of those, PCB and Organic-P were analysed in the National Institute of Environment of Korea using the Korean standard method.

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# (2) Macro-benthos

relation for

Number and species of macro-benthos were counted and identified by the National Institute of Environment of Korea.

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#### 3.1 Anyang Chong

# 3.1.1 Hourly Change of Water Quality

A-St. 1 is affected by back water from Hang Gang. The water level therefore showed hourly changes when the station was affected during the tidal time (September, 1990 and May, 1991). The differences between the highest and lowest water level were 115 cm in September and 31 cm in May, respectively (Fig. 3.1.1-1).

On the same date in September, the back water effect was also found on the water level at A-St. 2, although the difference between the highest and the lowest water levels was small (25 cm).

It seems, however, that there were no systematic hourly changes in the water qualities and water levels on the other sampling dates and sampling stations.

An hourly change appearing in water quality and water discharge may also be a reflection of the human activities and some other factors present in the river. Anyang Chong, however, is too large to be significantly affected by those kinds of human activities. Besides, domestic waste water and sewage are collected by an intercepting sewer pipe and transported to the treatment plant. Consequently, a systematic hourly change was not found in the water quality and water discharge by means of 2-hour-interval surveys.

24-hour surveys of water quality concentrations, however, showed large variances, and the mean of those values are thought to represent figures on the sampling date more accurately than the values taken once a day. Several mean values, therefore, were included in the results of the regular monthly data to be discussed, although some problems may exist in the combination of the more

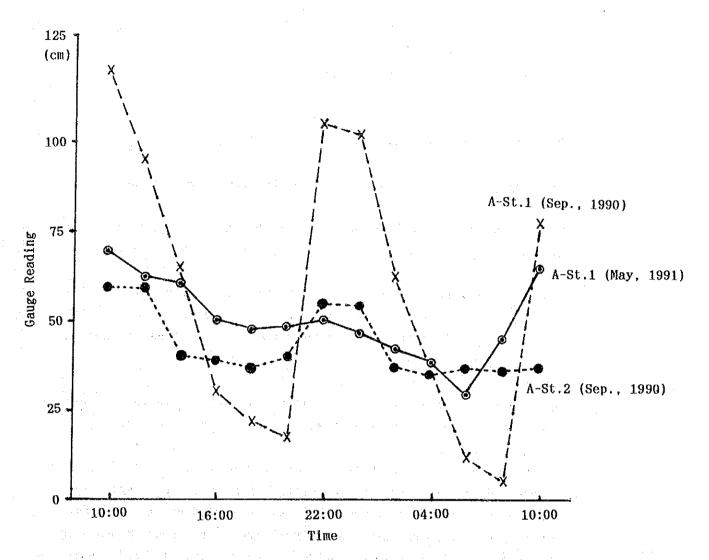


Fig. 3.1.1-1 Water Gauge Reading at A-St. 1 and A-St. 2 with the Effect by Hang Gang Back Water

de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co accurate mean values and the data which were sampled once a day.

Results are shown in Tables A-1.1-1-42.

#### 3.1.2 Monthly Variation of Water Quality

(1) Water quality variation obtained from the regular monthly survey

It is clear that Hang Gang has a back water effect on A-St. 1. All results, therefore, of this station are restricted as references.

Anyang Chong has already been polluted seriously due to the developing economic condition in Seoul. This river reflects this situation and presently looks like a sewage rather than a natural river.

The color is a mixture of dark brown and gray, sometimes nearly black, and the water reeks of sewage at A-St. 1 and A-St. 2.

Hs or methane gas bubbles were often seen at A-St. 1. It is understandable, through for incredibly low DO (0.0-6.6 mg/l) were constantly measured throughout the sampling period at all stations. 0.0 mg/l was found on July 5 or July 30, and even higher values such as 0.1 and 0.6 mg/l on the other dates (Tables 3.1.2-1-7 and Figs. 3.1.2-1 and 2).

Relatively higher DO content was found in the colder months, December and January. The highest DO of 6.6 mg/l was found at A-St. 3 in January, 1990. The values measured in April and May of 1991 were relatively lower than the values in the same months of 1990. It is assumed then that the pollution in this river is further increasing.

Lower DO at A-St. 7 indicates that Kaehwa Chong is more seriously polluted than Anyang Chong, and higher DO at A-St. 6, which is located higher than the other stations, indicates that the

Jan. 31, 1990 Feb. 22, 1990 Mar. 20, 1990 May 28, 1990 Jun. 22, 1990 Jul. 5, 1990 Jul. 30, 1998 Aug. 25, 1990 Sep. 22, 1990 Sep. 22, 1990 Nov. 13, 1990 Nov. 26, 1990 Dec. 24, 1990 Jan. 5, 1991 Jan. 5, 1991 Jan. 5, 1991 Mar. 21, 1991 May 21, 1991 May 31, 1991	3.8 7.2	DO COD( [mg/l) (	Mn) B0D (1) (mg/l) (mg/l) (1) (mg/l) (1) (mg/l) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	95.0 10.01 33.0 16.43 31.4 15.63 35.0 12.61 01.44 4.77 34.2 12.96 022.5 1.76 024.8 11.20 024.8 17.71 024.0 12.50 024.8 17.71 024.0 12.50 024.8 17.71 025.0 11.67 49.6 10.80 051.7 19.13 039.2 14.16 56.0 11.24 041.9 15.39 047.0 11.96 078.2 10.51 46.0 5.83 46.7 12.65	802-N Coll-form 8g/l) (MPN/100ml) 1.076	CN Hg (mg/1) (mg	2 10 -16 -1 522 456 97 35 58 95 78 36 47 45 37 40 37 37 38 38 36 47 40 37 37 38 40 37 40 40 40 40 40 40 40 40 40 40 40 40 40
Jan. 31, 1990 Feb. 22, 1990 Mar. 20, 1990 Apr. 20, 1990 Jun. 22, 1990 Jul. 5, 1990 Jul. 30, 1990 Jul. 30, 1990 Aug. 25, 1990 Sep. 7, 1990	(°C) (mS/cm) 3.6 7.3 - 8.0 7.3 - 12.0 7.2 - 21.0 7.1 - 26.4 7.4 - 19.8 7.3 0.8 24.3 7.1 - 25.7 6.7 - 27.0 7.2 - 17.1 7.0 - 15.4 6.9 - 11.3 7.3 - 6.4 7.2 - 4.2 7.1 - 2.2 7.4 - 7.7 7.3 - 8.0 7.4 - 15.0 7.6 - 15.0 7.6 -	DO CODU (mg/l) (mg, 2.1 4 43 2.0 66 1.2 5 16 0.5 17 0.0 3 2.5 26 0.6 1.9 3 2.5 26 0.8 46 3.1 44 2.4 56 3.2 66 2.0 55 1.8 56 0.4 14	(Mn) BOD 71) (mg/l) 1. 1 54.8 1. 7 70.5 1.5 158.0 1.43.0	(mg/t) (mg/t) (ng/t) (1 62.0 11.81 (43.0 7.45 (142.0 14.50 6.78 3 12.83 72.0 14.96 (25.0 9.69 44.8 11.81 (48.6 11.96 (25.0 9.69 44.8 11.81 (48.6 11.96 (26.7 11.96	NO2-N Coli-form ms/l) (MPN/100ml) 0.028 0.099 - 0.013 - 0.024 - 0.031 - 0.000 - 0.001 970 0.000 950 0.007 - 0.000 1800 0.000 2200 0.019 - 0.000 3500 0.234 4300 0.197 4800 0.234 4300 0.197 4800 0.018 6400 0.036 - 0.000 8800 0.000 8800 0.000 9800	0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00	21 32 23 29 25 420 37 0 45 44 38 - 27 0 28 25 0 22 20 0 21 18 0 25 0 35
Date Jan. 31, 1990 Feb. 22, 1990 Mar. 20, 1990 Apr. 20, 1990 Apr. 20, 1990 Jun. 22, 1990 Jun. 22, 1990 Jul. 5, 1990 Jul. 30, 1990 Aug. 25, 1990 Cet. 22, 1990 Cet. 22, 1990 Cet. 22, 1990 Nov. 13, 1990 Nov. 13, 1990 Nov. 26, 1990 Jan. 5, 1991 Feb. 5, 1991	WT pll EC (*C) (mS/cm) 2.8 7.5 - 16.0 7.2 - 21.4 7.0 - 23.8 7.5 - 21.5 8.6 1.0 21.6 7.0 - 25.0 7.4 - 25.3 7.1 - 25.1 7.1 - 20.8 7.2 - 113.2 7.2 - 14.2 7.1 - 6.0 7.0 - 3.8 7.4 - 5.6 7.2 - 7.6 7.5 - 7	DO COD( (ng/1) (ng/) 6.6 15 3.6 50 3.1 40 1.4 30 3.1 78 1.5 48 0.1 36 0.0 24 0.7 24 0.2 29 2.8 154 0.4 48 4.2 45 4.8 55	(Mn) BOD 71) (*8/1) 5.0 6.3 0.8 82.0 0.1 125.0 0.1 129.0 0.3 235.0 0.1 129.0 0.4 51.0 0.5 51.0 0.6 18.5 0.7 4.5 0.7 4	(mg/l) (m	NO2-N Coli-form mg/l) (MPN/100mi) 0. 021 0. 108 0. 735 0. 618 0. 034 0. 0052 0. 000 0. 000 0. 022 0. 000 0. 022 0. 000 0. 022 0. 000 0. 034 0. 000 0. 034 0. 030 0. 030 0. 030 0. 030 0. 030 0. 030 0. 039 0. 039 0. 039 0. 039 0. 039 0. 038 0. 0233 0. 2890	0.000 0.00 0.000 0.00 0.000 0.00 0.011 0.00 0.000 0.00	) (cm) -10 -10 -10 -10 -10 -10 -10 -10 -10 -10

Table 3. 1. 2-4	Water Quality of Anyang Chong, A-St. 4	
Item   WT   pH   EC	DO COD (Mn) BOD SS NH4-N NO2-N CO11- (mg/1) (mg/1) (mg/1) (mg/1) (mg/1) (mg/1) (mg/1) (mg/1) 3.5 60.1 74.0 82.0 12.37 0.033 1.7 40.1 54.0 47.0 7.26 0.091 2.2 76.5 98.6 144.3 14.50 0.002 0.7 94.2 136.0 423.3 18.90 0.036 1.6 44.1 45.0 63.0 12.34 0.026 0.2 14.0 20.8 28.4 5.22 - 0.0 35.5 60.7 83.1 12.06 0.000 0.0 24.2 73.0 19.0 2.05 0.000 1.3 20.0 12.0 21.0 9.78 0.000 0.4 30.0 26.6 56.6 11.59 0.012 1.7 21.0 11.6 25.7 10.87 0.000 2.7 42.1 25.8 24.0 14.02 0.000 2.2 36.4 47.0 26.4 17.90 0.021 0.5 50.1 37.0 44.0 15.10 0.000 2.2 2 55.1 99.2 52.8 12.68 0.000 3.2 58.1 57.0 64.1 19.57 0.263 3.2 62.2 81.3 42.7 15.49 0.031 2.1 59.5 78.6 56.0 11.24 0.034 2.2 51.3 66.3 29.8 15.61 0.021 1.4 60.1 57.0 88.0 11.96 0.000 1.7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000 1.0 7 48.1 46.8 56.0 7.97 0.000	1200 0.000 0.000 25 25 2100 - 25
	Water Quality of Anyang Chong, A-St. 5	-form CN He Gouge
Team WT	0.0 23.8 61.5 16.5 1.79 0.000 1.0 16.7 12.4 18.8 9.09 0.008 0.2 27.2 26.1 52.0 13.45 0.004 2.0 20.5 12.5 22.3 10.85 0.077 2.6 45.1 30.0 34.5 13.37 0.000 1.7 43.4 44.9 27.8 17.31 0.011	100a1) (mg/1) (mg/1) (cs)
Table 3.1.2-6	Market Angiters of Wilders oliving, where o	
Item   WT   pH   EC   (mS/cm)	(mg/l) (m	1-form CN   Hg   Gauge   (cm)   (mg/l) (mg/l) (mg/l) (cm)   9   26   26   26   27   27   27   27   27
	II -14	

Water Quality of Anyang Chong, A-St. 7

Table 3. 1. 2-7

		Itea	WT	pH	EC	DO	COD (Mn)	BOD	SS .	NH4-N	NO2-N	Coli-form	CN	llg	Gauge
Date	:		(°C)	-	(eS/cm)	(mg/l)	(ng/l)	(#g/l)	(ng/1)	(mg/1)	(#g/ )	(MPN/100ml)	(eg/1)	(rg/1)	(CB)
Jan.	31,	1990	3.0	7.4		2. 4	61.8	68.8	103.8	11. 14	0.055	•	~	-	-
	22,	1990	7.8	7. 1		1.7	55. 9	72.0	49.0	12. 47	0. 116	_	-	-	-
	20.	1990	12.0	7.3	-	1.7	70. 2	143.0	<b>78.</b> 0	23. 7î	0. 033	-	-	**	-
	20.	1990	20.0	7. 3	· •	2. 6	44. 5	87. 0	60.3	11. 99	0.025	_		-	<u>~</u>
	28.	1990	26.8	7. 1	-	1. 2	42. 1	55. 7	64. 0	14. 51	0.036	-	-	•	-
	22,	1990	20.8	7, 3	1. 1	2. 3	26. 7	19. 0	199. 5	3.06	•	920	-	••	-
Jul.	5.	1990	25.4	7.6	0.7	0.6	30. 5	47.0	46. 3	10, 59	0.047	••	_		31
	30.	1990	28. 2	7.4	-	0.0	22.4	51.0	20.5	1.69	0.029	850	0.000	0.000	-
	25.	1990	28. 1	7. 3		1. 5	19.4	9. 0	14.5	10.03	0.000	700	0.000	0.000	
Sep.	7.	1990	24. 0	7. 2		0.0	24.0	27. 9	36. 2	12.51	0.533	_		_	10
	22.	1990	17.6	7.1	_	2. 1	16.5	9. 5	14.6	6.72	0.028	2100	· -		32
	22,	1990	16. 8	7. 2	-	2, 8	48. 1	54. 6	44.0	15, 33	0.000	2600	-	•	27
	13.	1990	13.4	7. 2	_	1.8	47. 1	51. 9	48.8	19, 49	0.009	-	-		12
		1990	13, 4	7.1	_	0. 3	47. 1	51.0	65.0	17.71	0.000	3500	0.000	0.000	24
		1990	7.4	7.1	_	3. 8	56. 1	101.0	91.8	14. 49	0.000	16000	_		. 21
Jan.	5,	1991	6. 7	7. 1	_	1. 9	88. 2	102. 0	199.8		0.059	17000	0.800	0.000	19
	1Š,		2. 4	7. 7	•	2. 1	67. 2	53.6	79. 2	17.65	0.035		-	-	25
Feb.	5.	1991	6. 2	7.6	-	2. 4	85. 5	77.4	75.0	15, 73	0.005	15000	0.000	0.000	16
Mar.	5.		8. 1	7. ž		6.0	44. 2	92. 6	51.5		0.022	_		-	·g
	21,	1991	8, 2	7.2	*- <u>-</u>	1. 2	44.1	37. 0			0.054	11000	0.067	0.000	14
Apr		1991	19.0	7.7	_	9. 1	122, 2	114.0			0.000	16000	0.092	0.000	23
	28.		18. 4	7.8		0. 1	23. 5	14. 8			0.196	5400	0.011	0.000	18
		1991		7. 7	. •	Ŏ. <b>4</b>	36. 2	48.0			0.000	-	-		19

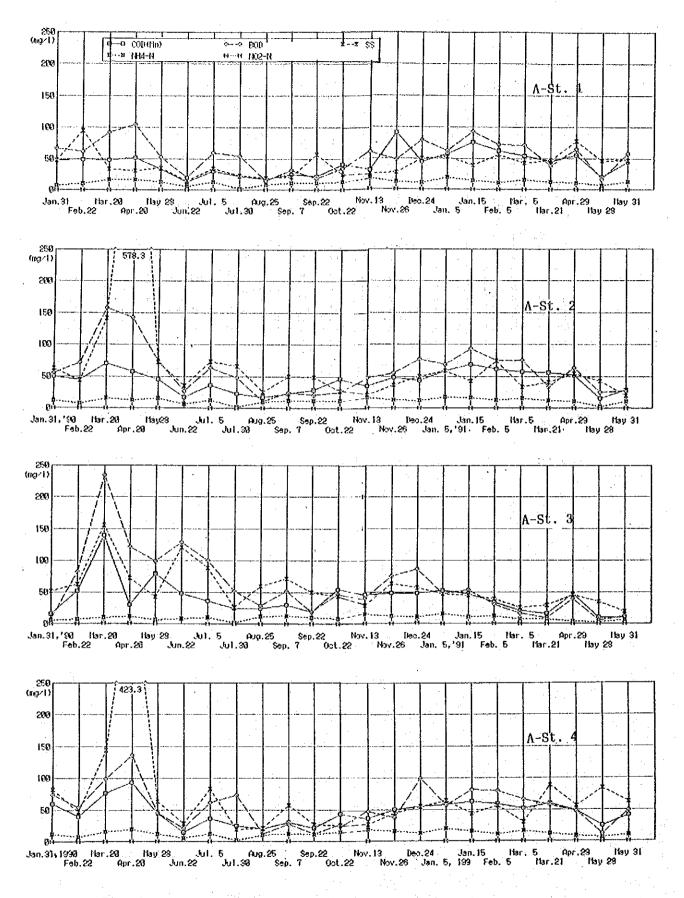


Fig. 3.1.2-1 Monthly Variation of Water Quality of Anyang Chong, A-St. 1 - A-St. 4, from January, 1990, to May, 1991

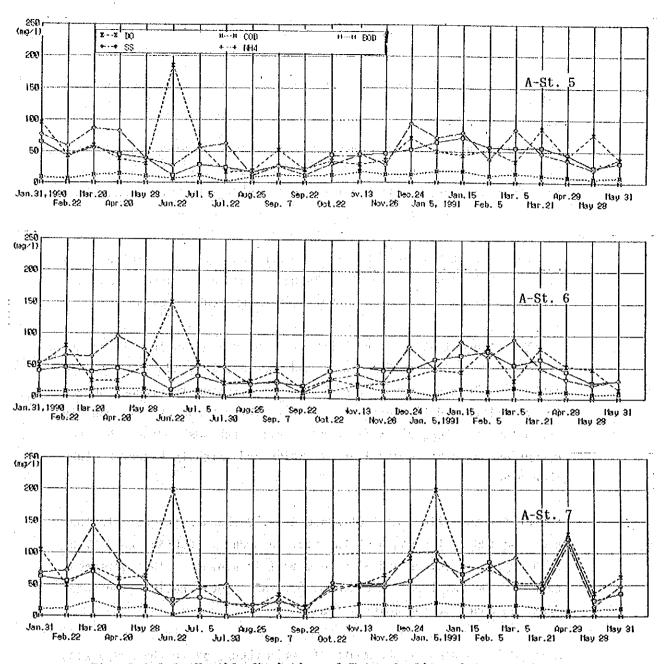


Fig. 3.1.2-2 Monthly Variation of Water Quality of Anayng Chong,
A-St. 5 - A-St. 7, from January, 1990 to May, 1991

pollutants are transported downstream along with the flow of the river.

EC, though only measured once or twice, had very high values from 0.6 to 1.1 mS/cm (mean: 0.86 mS/cm). Based on this it is supposed then that untreated waste water was emitted from the many industries along the riversides, especially above the study area.

pH ranged from 6.7 to 7.6 with an exceptionally high value of 8.6 at A-St. 3 in June 22, when the discharge was quite larger than the other occasions. Normally, it was neutral or weak alkaline.

COD(Mn) concentration curve showed a tendency of being lower in summer, from June to September, and increasing gradually toward winter. The month when the peak of concentration was found seemed to be little different every year. This tendency of monthly variation of COD(Mn) were found at all stations, with the few exceptions at A-St. 4 and A-St. 7, which had slightly higher values than others.

Except for the values at A-St.3 and A-St. 7, because those stations are located on the mouth of the small branches, COD(Mn) was 17.3-36.3 mg/l in summer and 58.5-76.0 mg/l in winter. The variances between the stations were small, but the concentration increased from the upper to the lower stream.

A-St. 3 is located on the mouth of Torim Chong, where the repairing and construction of the sewer pipe was completed in January, 1991. The completion of the construction work decreased the volume of sewage, which contained quite high COD(Mn), inflowing into the river much decreased. This brought about a decrease in COD(Mn), especially after March, 1991.

COD(Mn) of Anyang Chong was very high, however, these were lower than those obtained in 1984-1987(100-250 mg/l). It seems that the intercepting sewer system has been developed and the waste water from the industries have been treated more carefully.

The monthly distribution pattern of BOD was similar to those of COD(Mn),i.e. low BOD concentrations (10.5-32.1 mg/l) with high discharge in the hotter season, August-September, and high BOD (48.0-158.0 mg/l) with low discharge in the colder season (Fig. 3.1.2-3). The range, however, of the variance of BOD was greater than those of COD(Mn).

Higher values of BOD were obtained at A-St. 3 and A-St. 7. However, like COD(Mn), BOD at A-St. 3 decreased greatly after March, 1991.

BOD values were generally 1.5-2.0 times higher than COD(Mn) values at all stations, which is usually found in sewage. The higher ratio were found at A-St. 3 before the construction was completed, and the water was the real sewage, and at A-St. 7, where there is no sewer system upper stream of Kaehwa Chong.

BOD obtained in 1984-1987 was 80-150 mg/l, which was higher than the present value. Contrasted to this time, however, BOD/COD(Mn) were usually lower than 1, which is believed to result from the waste water from industries having to be treated more efficiently than before.

SS showed the similar patterns of monthly variation to BOD and COD(Mn), but had irregularly high values on several occasions (13.9-133.4 mg/l). SS at A-St. 2 and A-St. 4 showed incredibly high values on April 20 (578.3 mg/l at A-St. 2 and 235.0 mg/l at A-St. 4), while SS values at A-St. 5, A-St.6 and A-St. 7, on June 22, fell within the middle range which was probably an effect of the heavy rainfall three days before.

Compared to the COD(Mn) and BOD patterns, SS values had no clear pattern of being higher downstream than upstream.

The fluctuations of those three qualities mentioned above at A-St. 1 seemed to be stabilized by the back water of Hang Gang, for the variances of these values were smaller than the other stations.

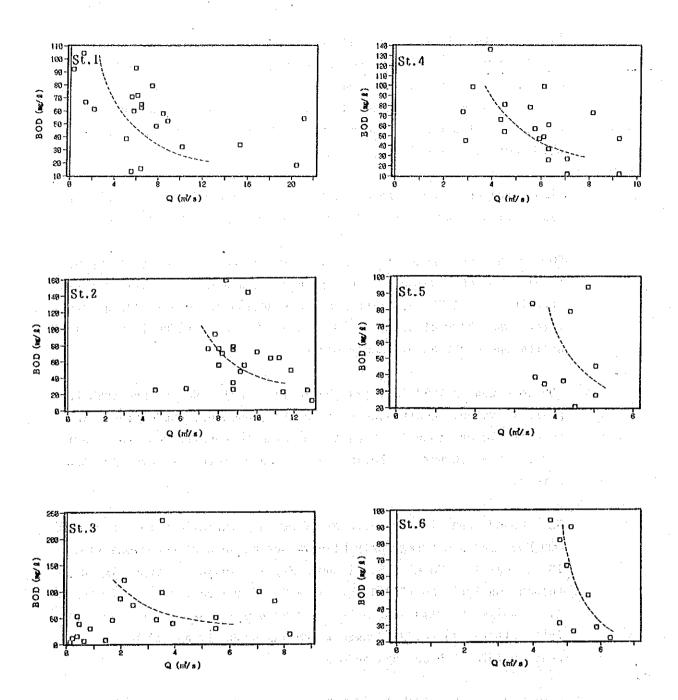


Fig. 3.1.2-3 Relation between Water Quality and Discharge of Anyang Chong