## CHAPTER IV

## RESULTS

The study results can be divided into two parts, each for each waste disposal site. Each part consists of 2 sets of data for each month of observation. The details are as follows.

The first and the third month of a field observation were obtained from On-nuch disposal site in May and July 1992. The differences of these two observations were due to the rainfall occurrence. In the third month of observation, 4 in 11 days had moderate to heavy rain but in the first month only one day of observation had slightly rainfall prior to the observations. Except from rainfall, there was no other significant difference in condition occurred. The summarized data obtained from On-nuch disposal site in May and July 1992 are shown in appendix A.

The second and the forth month of observation were obtained from Nong Kham disposal site in June and August. There was no significant difference about rainfall occurrence here. Because 5 in 11 days of the second month had slightly rainfall and 4 days in the forth month had slightly to moderate rainfall. The summarized data obtained from Nong Kham disposal site in both months are shown in appendix B.

Tables 4-1 and 4-2 and figures 4-1 and 4-2 are the mean value comparison of each parameter in the two periods of observation in each solid waste disposal site.

The missing of data from both sites caused by

- Improper function of field observation instrument
- and 2) The unavoidable obstructions to reach the station caused by low water level in Klong Ta Khe Kob and the muddy road at Nong Kham disposal site due to the rain.

Summarized mean value obtained from On-nuch disposal site. Table 4-1 STATION

						31	MITON	AILUM			
PARAMETER	5	1	2	3	4	5	6	7	8	9	10
TEMP.	May	29.7	30.9	31.2	31.1	31.2	31	31.4	31.6	31.8	31.7
(CELCIUS)	July	30.7	30	29.6	29.6	29.4	29.8	30.4	30.8	30.7	30.8
рН	May	8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
(pH UNIT)	July	8.1	7.4	7.3	7.4	7.3	7.3	7.2	7.2	7.2	7.2
DO.	May	0.27	0.88	1.11	1.63	1.13	1.42	1.13	1.07	1.58	1.26
(mg/L)	July	0.09	1.9	0.91	1.06	1.22	1.75	1.64	2.2	2.19	1.98
CONDUCT.	May	25509	2844	3067	3024	2976	2821	2711	2745	2755	2721
(umhos/cm)	July	19086	1735	2979	2652	2242	1677	1507	1480	1536	1607
SALINITY	May	13.7	0.8	0.9	1	0.9	0.9	0.9	0.8	0.8	0.7
(ppt.)	July	10	0.7	1	1	0.7	0.5	0.2	0.2	0.2	0.1
ALKALINITY		587	19	20	21	19	18	17	17	17	17
(mg/L)	July	523	32	35	38	35	30	24	23	22	25
BOD.	May	268	25	41	33	13	16	29	21	12	28
(mg/L)	July	493	35	22	46	43	34	28	17	18	21
COD.	May	6380	142	183	173	157	112	107	138	121	123
(mg/L)	July	4147	178	311	419	283	235	199	11	72	99
\$\$.	May	174	63	40	63	52	72.	48	27	22	22
(mg/L)	July	187	50	82	55	65	39	26	31	- 27	21
DS.	May	12425	1113	1728	1508	1342	1473	1551	1525	1505	1594
(mg/L)	July	12110	1010	1730	1550	1388	760	860	830	780	880
TS.	May	12583	1252	1769	1571	1394	1544	1655	1552	1527	1616
(mg/L)	July	12297	1060	1812	1635	1245	779	886	861	807	901
MERCURY	May	20.71	1.28	1.16	1.47	1.48	1.34	1.09	1.63	1.34	1.37
(ppb.)	July	3.73	1.31	0.9	1.21	1.48	0.97	0.81	0.82	0.89	1.12
CADMIUM		MayNON DETECTABLEJulyNON DETECTABLENON DETECTABLE									
(ppm.)	July		*********			ON DETECT	ADLE		********	*******	

0.73

0.68

MANGANESE May (ppm.) July

0.54

0.56

0.66

0.68

0.62

0.57

0.59

0.48

0.53

0.62

0.55

	Table 4-2		Summarized	mean valu	e obtained	from	Nong Kham	disposal	site.
					STA	TION			
	PARAMETER		1	2	3	4	5	6	7
	TEMP. (CELCIUS)	June August	28.7 27.4	30.1 31.3	30.3 30.2	28.9 27.3	30 29.9	29.8 29.6	29.9 29.7
	pH (pH UNIT)	June August	6.7 7	8 7.9	7.6 7.7	6.9 7	7.1 7.1	7 7.2	7 7.2
	DO. (mg/L)	June August	Q.33 0.25	0.12	0.66 1.95	0.38	0.46 0.29	1. <i>2</i> 3 1.38	0.91 1.38
	CONDUCT. (umhos/cm)	June August	2526 2479	20409 28167	3810 2407	1529 1864	1543 1421	1725 1708	1769 1563
	SALINITY (ppt.)	June August	0.7	11.5 16	1.3 1.1	0.2	0.2	0.3	0.3
	ALKALINITY (mg/L)	June August	22 33	167 670	60 63	21 27	25 22	24 23	31 24
	BOD. (mg/L)	June August	23 19	216 376	87 70	87 54	25 26	25 22	27 22
	000. (mg/L)	June August	195 167	2693 4397	500 318	233 117	213 118	183 129	334 143
	SS. (mg/L)	June Augus	17 12	106 116	30 40	24 21	25 18	41 21	24 16
	DS. (mg/L)	June Augus	1417 t 2188	8680 12080	1940 1888	889 669		700 830	770 1003
	TS. (mg/L)	June Augus	1434 t 2199	8780 12224	2150 1928	909		741 851	794 1018
	MERCURY (ppb.)	June Augus	0.8 t 0.85	2.05 2.63	0.81	0.99		1.45 1.24	
CADMIUM (ppm.)	June Augus	t		NON DETECTABLE ————————————————————————————————————					
	MANGANESE (ppm.)	June Augus	0.72 t 1.28	0.74 0.77	1.01 1.08	0.87		0.62 0.74	

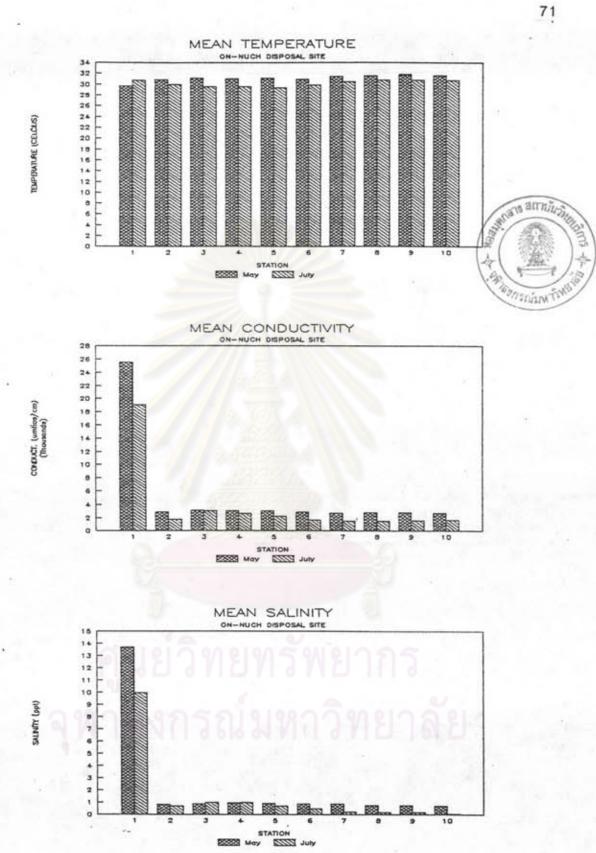
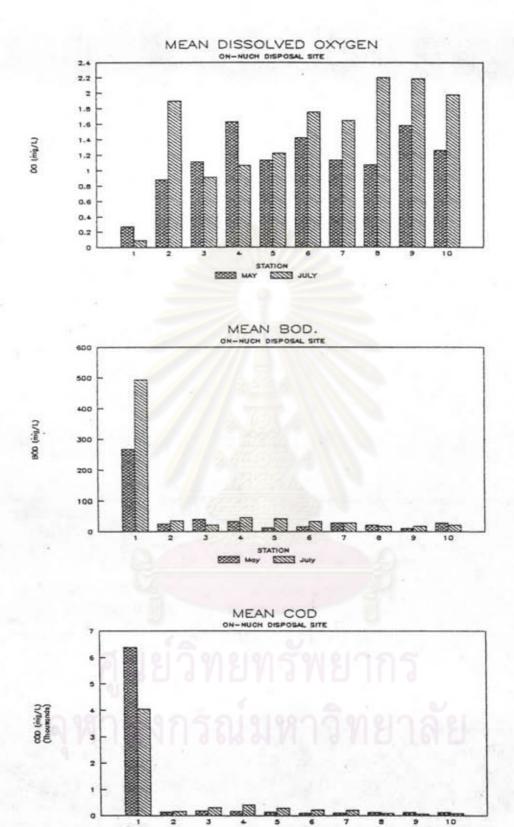
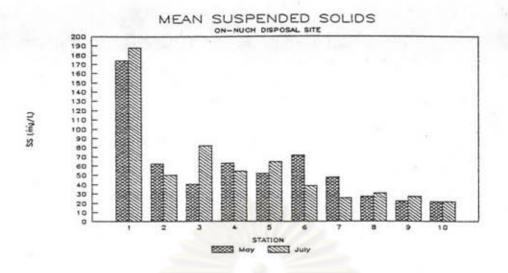


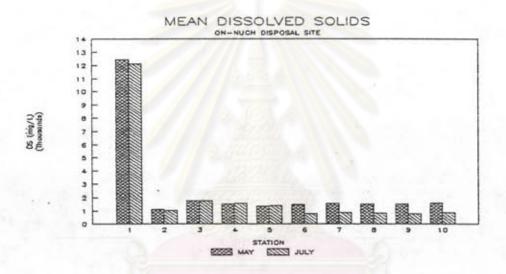
Fig. 4-1 The comparison of each parameter in the two periods of observation at the On-nuch disposal site.



STATION Y SSSS JULY

Fig. 4-1 (cont.)





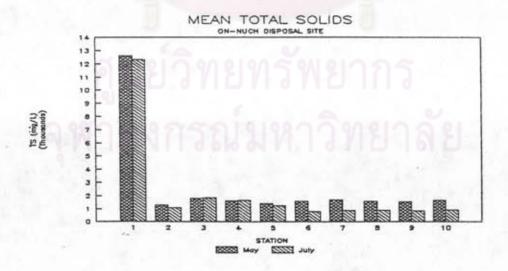


Fig. 4-1 (cont.)

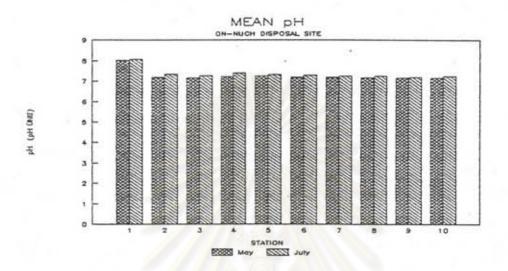
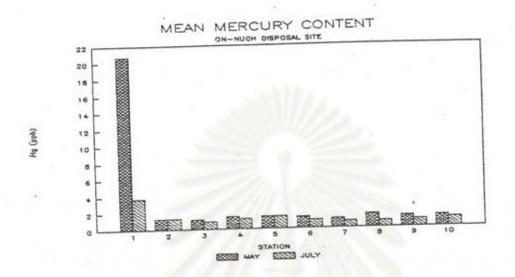




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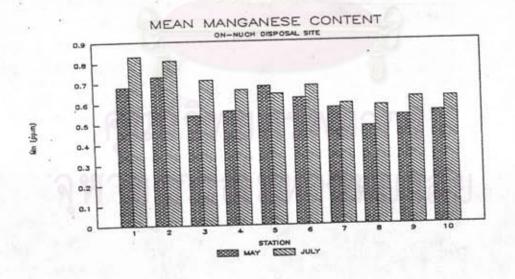


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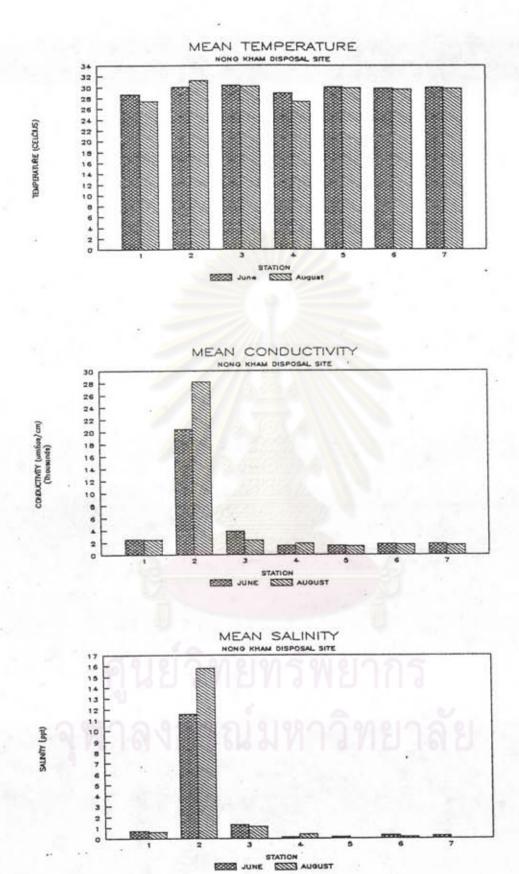
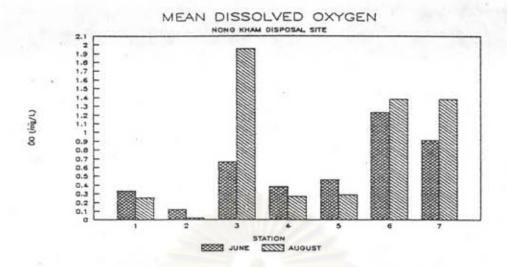
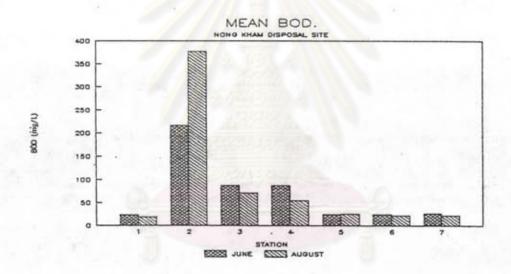


Fig. 4-2 The comparison of each parameter in the two periods of observation of the Nong Kham disposal site.





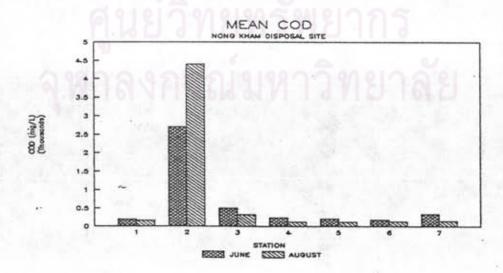
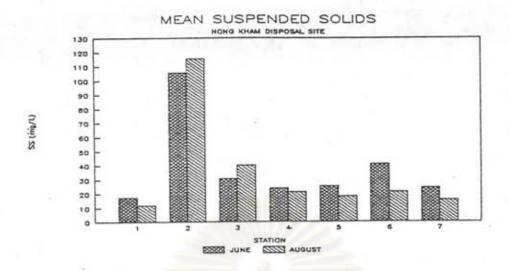
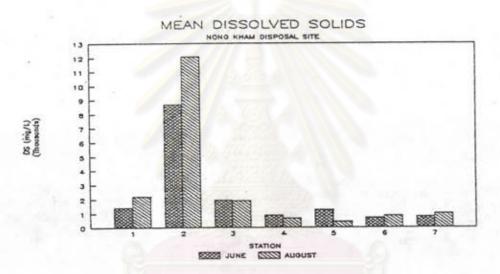


Fig. 4-2 (cont.)





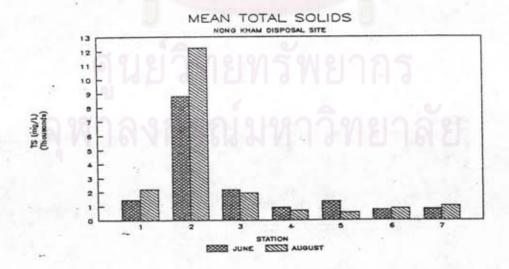
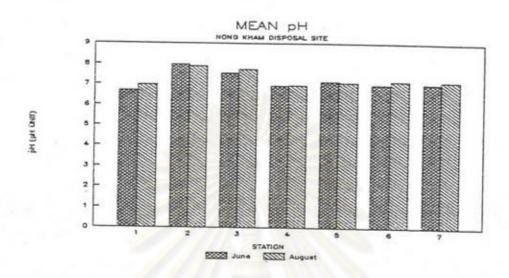


Fig. 4-2 (cont.)



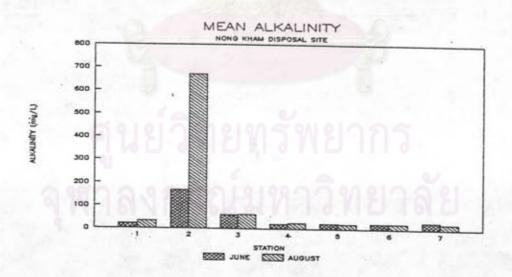
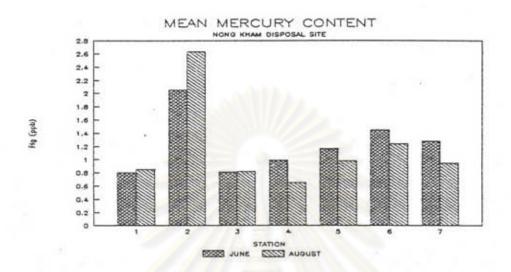


Fig. 4-2 (cont.)



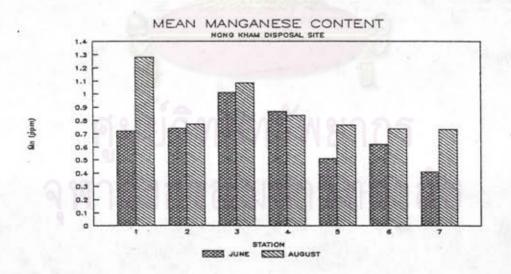


Fig. 4-2 (cont.)