FILE 11330
8 JAN 1987

FROM: SUPERVISORY CHEMIST, ENVIRONMENTAL CHEMISTRY + MICROBIOLOGY LABORATORY, ENVIRONMENTAL BRANCH, NREAD

TO: DIRECTOR, NREAD

VIA: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: COLIFORM ANALYSIS

1. SINCE ~~1984~~ 1985, THE LABORATORY'S QUANTITY OF COLIFORM SAMPLES HAS BEEN STEADILY INCREASING. SEVERAL THINGS HAVE CAUSED THIS. ~~THE~~ IN MAY OF 1985, ~~THE~~ PREVENTIVE MEDICINE UNIT (PMU) ~~IS~~ STARTED ~~CHECKING IN ICE MACHINES~~ TAKING COLIFORM SAMPLES OF ICE MACHINES IN FOOD ~~SERV~~ SERVICE AREAS. UP UNTIL MAY 1985, PMU HAD ONLY TAKEN ICE SAMPLES AT THE NAVAL HOSPITAL ~~AT~~ & AND THE ICE PLANT AT REGULAR FREQUENCIES. IN JANUARY 1986, AFTER RECEIVING THE PROPOSED NPDES PERMITS, THE LABORATORY INCREASED ~~GOLF~~ COLIFORM ANALYSIS IN SOME OF THE WASTEWATER PLANTS TO REFLECT THE NEW SAMPLING REQUIREMENTS PROPOSED. FROM MAY 1985 UNTIL APPROXIMATELY APRIL 1986, PMU'S QUANTITIES ~~OF ICE SAMPLES~~ AND FREQUENCY OF ICE SAMPLES WERE FEW AND INFREQUENT (<250/MONTH). SINCE APRIL 1986 UNTIL PRESENT PMU IS AVERAGING BETWEEN 300-400 SAMPLES A MONTH. PMU ~~HAS~~ STATED THAT THEY ~~WOULD LIKE TO BE~~ ARE REQUIRE ~~IN~~ ~~200 SA~~ PULL A COLIFORM SAMPLE IN EVERY ICE MACHINE A WEEK ~~ABOUT~~ ABOARD THE BASE. IT IS ESTIMATED THAT THERE ARE AT LEAST 200 ICE MACHINES ~~AT~~ ABOARD THE CAMP LEJEUNE COMPLEX.

2. ~~ENCLOSURE (1)~~ THE ENCLOSURE SHOWS THE APPROXIMATE NUMBER OF COLIFORM RUN DURING THE VARIOUS TIME PERIODS DISCUSSED ABOVE. THESE ~~FIGURE~~ ~~FIGS~~

File 11330
8 Jan 1987

From: Supervisory Chemist, Environmental Chemistry & Microbiology Laboratory, Environmental Branch, NREAD

To: Director, NREAD

Via: Supervisory Ecologist, Environmental Branch, NREAD

Subj: Coliform Analysis

1. Since 1985, the laboratory's quantity of coliform samples has been steadily increasing. Several things have caused this. In May of 1985, the Preventive Medicine Unit (PMU) started taking coliform samples of ice machines in Food Service areas. Up until May 1985, PMU had only taken ice samples at the Naval Hospital and the ice plant at regular frequencies. In January 1986, after receiving the proposed NPDES permits, the laboratory increased some coliform analysis in some of the wastewater plants to reflect the new sampling requirements proposed. From May 1985 until approximately April 1986, PMU's quantities of ice samples and frequency of ice samples (≈250/month) were few and infrequent. Since April 1986 until present PMU is averaging between 300-400 samples a month. PMU has stated that they are required to take a coliform sample on every ice machine a week aboard the base. It is estimated that there are at least 200 ice machines aboard the Camp Lejeune complex.

2. The enclosure (1) shows the approximate number of coliform run during the various time periods discussed above. These figures for

NUMBERS INCLUDE THE QUALITY CONTROL SAMPLES THAT MUST ~~AA~~ BE RUN WITH EACH BATCH OF SAMPLES. EACH SAMPLE TAKES ONE PETRI DISH, PAD AND FILTER AND 2 MLS OF ~~ENDO~~ m-ENDO BROTH.

3. WE HAD BEEN ORDERING PETRI DISHES, PADS + FILTERS IN QUANTITIES OF 3,000. A ~~REQUESTOI~~ REQUISITION FOR 3000 PETRI DISHES COST ~~COSTS~~ ~$500.00. ~~A F~~ THE PADS + FILTERS HAVE ~~ARE~~ USUALLY BEEN ORDERED IN A SET AT A COST OF ~$850.00 FOR 3000. PRIOR TO MAY 1985 AN ORDER OF 3000 WOULD LAST APPROXIMATELY 4 MONTHS, AND REQUISITIONS TOOK ABOUT 2 MONTHS TO BE COMPLETED.

4. SINCE QUANTITIES HAVE INCREASED, I HAVE GONE TO ORDERING 4000, AND 6000 LOTS. LUCKILY THE PRICE CAME DOWN SOME ON THE PADS + FILTERS, 4000 ~~ONLY~~ RUN $920. THIS IS LUCKY BECAUSE PURCHASING AND CONTRACTING REGULATIONS REQUIRE BIDS FOR ORDERS OVER $1,000. ~~AND THIS IS NOT POSOTO~~ THERE ARE TWO BRANDS THAT ARE ALLOWED FOR CERTIFIED COLIFORM ANALYSIS, MILLIPORE AND GELMAN. WE HAVE FOUND MILLIPORE ~~BETTER~~ EASIER TO USE AND THE PRICE IS NOT THAT MUCH DIFFERENT. EVEN THOUGH TWO BRANDS ARE ACCEPTABLE AS PART OF OUR CERTIFICATION WE HAVE TO NAME WHICH BRAND WE ARE USING. MILLIPORE ~~CORP~~ CORPORATION IS THE ONLY SUPPLIER OF MILLIPORE PRODUCTS. ~~UNLIKE~~ MOST OF OUR OTHER LABORATORY SUPPLIES CAN BE PURCHASED THROUGH EITHER THE MANUFACTURER OR A VARITY OF CHEMICAL CLEARING HOUSES. THEREFORE THERE IS ONLY ONE SOURCE FOR OUR REQUIRED PETRI DISHES, PADS + FILTERS.

5. QUANTITIES OF 4000, AT OUR PRESENT RATE OF USE IS ONLY LASTING THREE MONTHS. IT IS TAKING ABOUT 3 MONTHS TO FILL PRIORITY 14

REQUISITIONS. AND THE LABORATORY'S PRESENT STORAGE CAPACITY ~~IS~~ CAN ONLY HOLD APPROXIMATELY 5000. RIGHT NOW, WHEN I RECEIVE AN ORDER I SUBMIT ANOTHER ORDER ~~AND IT IS RIGHT~~. AND AT OUR PRESENT RATE (ICE @ 100/WEEK) WE ARE STILL ~~CLOSE TO RUNNING~~ UNCOMFORTABLY CLOSE TO RUNNING OUT WHEN THE ORDER COMES IN.

6. ~~SUPPLY TO A~~: OUR SUPPLY OFFICER HAS RECOMMENDED STOCKING THESE ITEMS AT SELF-SERVICE. MR. SHARPE HAS RECOMMENDED HAVING SANDRA ORDER A SET QUANTITY EVERY MONTH. ~~THE MONTHLY ORDERING, IS~~ I WOULD THINK PURCHASING + CONTRACTING ~~S~~ WOULD HAVE A MEANS TO DO ~~THIS~~ MONTHLY ORDERING ~~BY~~ WITH OUT US CUTTING MONTHLY REQUISITIONS.

7. SOMETHING HAS TO BE DONE SO WE CAN ACCOMADATE PMU's REQUEST FOR 200 ICE SAMPLES PER WEEK. LT MUNA, AT SUPPLY, HAS THE INFORMATION HE SAID HE NEEDED TO ARRANGE ~~THE~~ TO STOCK THIS AT SELF-SERVICE. RIGHT NOW WE HAVE 2000 PETRI DISHES IN OUR STOCK ROOM, 4000 PETRI DISHES AT SUPPLY TO PICK UP, AND 4000 PADS + FILTERS. I AM ORDERING 4000 MORE OF EACH TODAY.

QUANTITIES OF COLIFORM SAMPLES RUN BY THE ENVIRONMENTAL CHEMISTRY + MICROBIOLOGY LABORATORY

TIME PERIOD	ESTIMATED QUANTITIES		
	WEEKLY	MONTHLY	YEARLY
PRIOR TO MAY 1985 (OCCASIONAL ICE, PRESENT NPDES)	150	680	8,700
JAN 86-MAR 86 (INCREASE ICE TO ~150/MONTH, PRESENT + PROPOSED NPDES)	190	1,000	12,670
APRIL 1986 → (ICE 100/WEEK, PRESENT + PROPOSED NPDES)	325	1,375	17,770
PROPOSED (ICE 200/WEEK, PROPOSED NPDES)	400	1,675	21,670

Quantities of Coliform Samples Run by the

Environmental Chemistry + Microbiology Laboratory

Time Period	Estimated Quantities		
	Weekly	Monthly	Yearly
Now to May 1985	150	680	8,700
(occasional ice, on present mpcs)			
Jan 85-Mar 85	190	1,000	12,670
(increase ice to ~150/month, present + proposed mpcs)			
April 1985 →	325	1,475	17,170
(ice to 100/week, present + proposed mpcs)			
Proposed	400	1,675	21,670
(ice 200/week, proposed mpcs)			

11331/3

DATE: 3 JULY 1986

FROM: SUPERVISORY CHEMIST, WQCL, ENVIRONMENTAL BRANCH, NREAD

TO: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: SUMMARY OF BACTERIOLOGICAL ANALYSIS OF ICE

1. PMU IS SUSPOSE TO CHECK ALL ICE MACHINES FOR WEEKLY FOR TOTAL COLIFORM. SURVIELANCE SECTION OF PMU IS CHARGE WITH THIS ~~RESPO~~ RESPONSIBILITY. ~~THEY FIG~~ THEIR FIGURES SHOW APPROXIMATELY 200 ICE MACHINES ON BASE IN FOOD SERVICE AREAS.

200 x 52 = E 10400

2. FROM 1 JANUARY - 30 JUNE 1986, PMU COLLECTED 1,346 ICE SAMPLES FOR ANALYSIS. THE QUANTITY OF SAMPLES HAS INCREASED EACH MONTH, WITH THE EXCEPTION OF JUNE. PMU IS NOW SAMPLING EVERY ICE MACHINE EVERY OTHER WEEK, THEN ARE STILL ~~AM~~ AIMING FOR EVERY MACHINE EVERY WEEK. OF THE 1,346 SAMPLES COLLECTED IN THE LAST SIX MONTHS, 1157 ~~WERE NEGATIVE~~ CONTAINED NO GROWTH. THE OTHER 15% OF THE SAMPLES SHOWED GROWTH RANGING FROM SOME NON-COLIFORM TO TNTC COLIFORM. ~~OF THIS~~ IN THE LAST THREE MONTHS (1 APR - 30 JUN), 940 ~~SAMPLES WERE~~ OF THE 1,346 WERE COLLECTED AND 25% OF THEM ~~WER~~ CONTAINED GROWTH.

3. IN MY OPINION, ~~SEE~~ BASED ON SEEING THE DAILY READINGS, THERE IS A REAL NEED TO CONTINUE THIS MONITORING. MOST OF THIS ICE ~~COMES HE CONTACT WITH~~ IS USED IN DRINKS.

Elizabeth A Bailey

ICE SAMPLES

DATE	QTY	NO GROWTH	NON-COLI	1-4 COLI	POSITIVE	RESAMPLES
7 JAN	9	8		1		
9 JAN	13 NH	13				
13 JAN	2	2				
14 JAN	~~15~~ 24	~~14~~ 17	6	1		
16 JAN	5	5				
22 JAN	7 MCAS	~~5~~ 5	1		1	
24 JAN	16	13		3		
28 JAN	~~6~~ 25	~~6~~ 23			2	
31 JAN	2					2
	103	86	7	5	3	2
3 FEB	29	27			1	1
5 FEB	10	9		1		
6 FEB	12	8	3			1
10 FEB	5	5				
10 FEB	9	9				
11 FEB	7	~~8~~ 6	1			
14 FEB	5	4	1			
14 FEB	17	13	4			
19 FEB	5	4	1			
21 FEB	24	22	2	2		
24 FEB	3	0	2	1		
24 FEB	15	15				
24 FEB	6	6				
25 FEB	11	11				
	160	139	14	4	1	2

3 MAR	14	13			1
3 MAR	11	11			0
4 MAR	7	7			
5 MAR	26	24	1		1
7 MAR	14	14			
10 MAR	9	8	1		
11 MAR	13	10	2		1
12 MAR	14	14			
13 MAR	1				1
13 MAR	21	21			
19 MAR	29	26	1	1	1
20 MAR	3	3			
20 MAR	4	3			1
24 MAR	4	4			
24 MAR	25	20	2	3	
27 MAR	6	5			1
31 MAR	15	15			
	216	198	7	4	7

| | | |

1 APR	8	8				
1 APR	7	7				
3 APR	3	1		1	1	
2 APR	6	6				
3 APR	8	8				
4 APR	6	5	1			
4 APR	4	4			~~1~~	
7 APR	16	15			1	
7 APR	2	2				
9 APR	8	~~8~~ 7	1			
9 APR	26	18			7	1 *3-GROWTH
11 APR	9	2				7
11 APR	2	2				
14 APR	16	16				
15 APR	15	9	5		1	
15 APR	5	3			2	
16 APR	3					3*
16 APR	10	9		1		
18 APR	8					8
21 APR	4	3			1	
21 APR	20	14	3		1	
23 APR	~~29~~ 36	~~27~~ 34		1	1	
25 APR	12	11			1	
25 APR	15	15				
28 APR	31	26	1	2	2	
29 APR	29	17	3	6	3	
30 APR	6	2	3	1	—	—
	315	246	17	12	21	19

1 MAY 86	14 ~~15~~	9	1	2	2
	3	2		1	
	14	10	2	1	1
2 MAY 86	10	8		1	1
	8	3	3	2	
5 MAY	20 ~~14~~	17 ~~12~~	2		1
	4	2	1	1	
6 MAY	6	6			
	9	8		1	
7 MAY	9 ~~18~~	4 ~~13~~	2	1	2
9 MAY	5	2		2	1
	5	2			3
12 MAY	42	35		2	5
13 MAY	40	34		4	2
15 MAY	8	5	1	2	
16 MAY	7	6			1
16 MAY	36	37	2	3	
19 MAY	6	3			3
20 MAY	2	1	1		
20 MAY	22	13	2		7
21 MAY	20	14	2	1	3
23 MAY	2	1	1		
27 MAY	10	7		1	2
28 MAY	21	17		3	1
29 MAY	6	5			1
29 MAY	6	6			
	345	260	20	28	34 3

2 JUN	5	5				
2 JUN	40 ~~27~~ ~~28~~	~~22~~ ~~19~~	~~16~~	~~16~~	~~13~~	~~13~~
3 JUN	10	10				
5 JUN	15	10	2	2	1	
6 JUN	7	4		1	2	
9 JUN	14	13	1			
10 JUN	3	2	1			
13 JUN	15	13		1	1	
13 JUN	8	7			1	
12 JUN	14	12		2		
10 JUN	13	12			1	
15 JUN	6	5			1	
16 JUN	15	13	1		2	
17 JUN	2					2
19 JUN	21	17		1	3	
19 JUN	12 ~~13~~	12			~~8~~	
CG M.H's → 23 JUN	27	9	8	3	7	
~~27~~ JUN	24	17		2	5	
25 JUN	8	6		1	1	
26 JUN	2				~~3~~	2
26 JUN	10	9			1	
27 JUN	6	5			1	
30 JUN	33	26	2	3	2	
	310	228	21	22	32	~~8~~ 7

ICE SAMPLES

DATE	QTY	NO GROWTH	NON-COLI	1-4 COLI	POSITIVE	RESAMPLES
1 JULY	12	7 ~~8~~	1	2	2	
	12	12				
2 JULY	26	18	3	1	4	
5 JULY	28	18	6	2	2	
8 JULY	36	32	2		1	1
9 JULY	7	7				
10 JULY	14	10				4 (1 POSITIVE)
11 JULY	16	15				1
14 JULY	21	9 ~~8~~	12			
15 JULY	13 ~~15~~	13 ~~15~~				
16 JULY	36	29		4	3	
18 JULY	11	5	2	1	3	
22 JULY	22	19			3	
23 JULY	21	20		1		
25 JULY	8					8 (3 POS)
28 JULY	11	9			2	
29 JULY	32	15	4	5	6	2 (1 POS)
30 JULY	6	3	1		2	
31 JULY	41	28	8	3	2	
	373	269	39	19	30	16 (5 POSIT)

28 % ~~POSITIVE~~ CONTAIN GROWTH

PROPOSED

SAMPLES	WEEKLY	MONTHLY	ANNUALLY
DRINKING WATER	55	220	2860
SWIMMING POOLS			
WINTER (8)	3	12	96
SUMMER (4)	9	36	144
WASTEWATER	95	380	4940
RIVER RUNS	—	74	888
ICE @200/WEEK	235	940	12,220
MISCELLANOUS	10	40	520
TOTAL			
WINTER	398	1666	21668
SUMMER	404	1690	
AVERAGE (ESTIMATED)	400	1675	21670 (2.5 times 1985 qty)

PROPOSED

SAMPLES	WEEKLY	MONTHLY	ANNUALLY
DRINKING WATER	35	220	2860
SWIMMING POOLS			
WINTER (8)	3	12	96
SUMMER (4)	9	36	144
WASTEWATER	95	380	4940
RIVER RUNS	—	14	728
ICE $220/WEEK	285	940	12,220
MISCELLANEOUS	10	40	520

TOTAL

WINTER	398	1592	21,618
SUMMER	404	1620	
AVERAGE (ESTIMATED)	400	1575	21,170 (ESTIMATED 1985 QTY)

April 1986 to Present

SAMPLES	WEEKLY	MONTHLY	ANNUALLY
Drinking Water	53	212	2756
Swimming Pools			
Winter (8)	3	12	96
Summer (4)	9	36	144
Wastewater	122	488	6344
River Runs	—	74	888
Ice @ 100/week	135	540	7,020
Miscellanous	10	40	520

Totals

Winter	323	1366	17,768
Summer	329	1390	
Estimated	325	1375	17,770 (over double of prior 1985)

April 1984 To Present

SAMPLES	Weekly	Monthly	Annually
Drinking Water	53	212	2752
Swimming Pools			
Winter (3)	3	12	96
Summer (4)	9	36	144
Wastewater	152	456	6844
River Runs	—	74	888
Ice & Snow	135	540	7,020
Miscellaneous	10	40	520

Totals

Winter	323	1344	17,708
Summer	329	1210	
Estimated	852	1872	17,772 (Same Period of 1985)

~~MAY 85~~ -

JANUARY 1986 - MARCH 1986

SAMPLES	WEEKLY	MONTHLY	ANNUALLY
DRINKING WATER	53	212	2756
SWIMMING POOLS			
WINTER (8)	3	12	96 ~~156~~
SUMMER (4)	9	36	144 ~~468~~
WASTEWATER	122	488	~~6344~~ 6344
RIVER RUNS	~~10~~ —	74	888
ICE	—	160 ~~CONTROLS~~	1920
MISCELLANOUS	10	40	520

(COMPLAINTS, BY-PASSES, MAINTENANCE CHECK SAMPLES)

TOTALS

WINTER	188 ~~197~~	986	~~12584~~ > 12668
SUMMER	194	1010	
ESTIMATED	190	5000	12,670

Coliform Samples Run By the Environmental Chemistry & Microbiology Laboratory

Prior to May 1985

Samples	Weekly	Monthly	Annually
Drinking Water	53	212	2756
Swimming Pools			
Winter (8)	3	12	96 ~~156~~
Summer (4)	9	36	144 ~~468~~
Wastewater	80	320	4160
River Runs	—	74	888
Miscellanous	10-15	40-60	520 - 780

(Complaints, By-passes, Wallace Creek, Hospital & Ice Plant)

Totals				
Winter	143 - 151	658 - 678	~~8480 - 8740~~	8564 - 8824
Summer	149 - 157	682 - 702	~~8792 - 9058~~	
Estimated	150	~~690~~ 680	8,760	

Coliform Samples Run by the Environmental Chemistry & Microbiology Laboratory

Period to May 1985

Samples	Weekly	Monthly	Annually
Drinking Water	53	212	2756
Swimming Pools			
Winter (8)	3	12	96 / 456
Summer (4)	9	36	144 / 468
Wastewater	80	320	4160
River Runs	—	44	588
Miscellaneous	10-15	40-60	520 - 780

(Complaints, By-Passes, Manhole Cases, Hospital & Zoo Plant)

Totals				
Winter	143 - 151	572 - 578	8460 - 8740	8514 - 9854
Summer	149 - 157	596 - 702	8772 - 10052	
Estimated	153	1440 1680	8,160	

	WEEKLY	×4 MONTHLY	×52 YEARLY
DRINKING WATER			
	51	204	2,652
WASTEWATER			
PRESENT	122 ~~107~~	488 ~~428~~	6,344 ~~5,564~~
PROPOSED	95	380	4,940
RIVER RUNS			
	~~74~~	74	888
MISCELLANOUS			
	10	40	520
SUBTOTALS	~~265~~	~~826~~	
	183	806	10404
PRESENT	~~168~~	~~746~~	~~9624~~
PROPOSED	156	698	9000
ICE @ 200/WEEK	235	940	12,220
@ 135/WEEK	135	540	7,020

	WEEKLY	MONTHLY	YEARLY
DRINKING WATER			
	51	204	2,652
WASTEWATER			
Present	102	408	5,304
Proposed	95	380	4,940
RIVER RUNS			
	34	136	888
MISCELLANEOUS			
	10	40	520
SUBTOTALS	293	1168	
Present	148	594	10,844
Proposed	150	608	9,308
ICE Present	135	540	18,720
Proposed	154	616	1,020

COLIFORM

DRINKING WATER

~~40~~ ~~38~~ SAMPLES

13 CONTROLS

~~53~~ PER WEEK

SWIMMING POOLS

WINTER 3/WEEK

SUMMER 9/WEEK

WASTEWATER

~~TUE~~ TUE	~~8~~ 12 SAMPLES	+ 6 CONTROLS	= ~~18~~	12 SAMPLES	+ 7 CONTROLS	= 19
~~WED~~ WED	~~21~~ 24 SAMPLES	+ 10 CONTROLS	= 34	12	+ 7	= 19
THUR	~~9~~ 12	+ 6	= ~~18~~	12	+ 7	= 19
FRI	~~21~~ 24	+ 10	= 34	12	+ 7	= 19
SAT	~~9~~ 12	+ 6	= ~~18~~	12	+ 7	= 19
			~~122~~ ~~107~~ PER WEEK			95

~~RIVER~~ RUNS

POINTS	36 SAMPLES	+ 10 CONTROLS	= 46
OUTFALLS	28	+ 0	= 28
			74 PER MONTH

~~INCO~~ ICE

200 SAMPLES + 7 CONTROLS PER BATCH (~~28~~) = 235 PER WEEK

MISCELLANEOUS

5 SAMPLES + ~~3~~ CONTROLS = 10 PER WEEK.

PLANT	MON	TUE	WED	THUR	F

MON	0
TUE	0
WED	31
THURS	18
FRI	31
	80

Mon 0

Tue 0

Wed 31

Thurs 18

Fri 31

=80

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS
Marine Corps Base
Camp Lejeune, North Carolina 28542

26 Feb 87
Date

From: Director
To:
Subj: Donna?
attached has been on my desk for some time. What is current situation with ice sampling?

Julia

Betsy: Lets Discuss Next week Some Time

D.S.
26 Feb 87

Julie
26 Feb 87

To: Director, NREAD

Recommend Meeting between Director, NREAD, Supervisory Chemist And Preventive Medicine Officer to reach an understanding of what support you are expected to provide P.M.U.
D. Sharpe

FROM: SUPERVISORY CHEMIST, WATER QUALITY CONTROL LABORATORY, ENVIRONMENTAL BRANCH, NREAD

TO: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: PMU is FY 87 WATER QUALITY CONTROL LABORATORY REQUEST

ENCL: (1) SUBJECT REQUEST

1. BACKGROUND. FOR THE PAST YEAR PMU HAS BEEN SAMPLING ICE MACHINES IN FOOD SERVICE AREAS ABOARD THE BASE FOR ~~BCIC~~ COLIFORM CONTENT. ANALYSIS HAS BEEN RUN BY THE WATER QUALITY CONTROL LABORATORY. INITIALLY THE SAMPLING WAS ERRATIC HOWEVER FOR THE PAST FOUR MONTHS PMU HAS GENERATED 300-400 ICE SAMPLES A MONTH. THE DAILY QUANTITIES RANGE ANYWHERE FROM ~~0~~ ZERO TO 42 SAMPLES. ~~THERE ARE SEVERAL FACTORS~~ THE MAIN FACTOR THAT CONTROLS THE DAILY QUANTITIES. ~~IS THE FIRST~~ IS THE NUMBER OF ~~ONLY ONE FACTOR IS~~ PREPARED ICE SAMPLE JARS THAT ARE READY EACH MORNING. THE LABORATORY HAS ONLY 42 JARS IN ~~0~~ STOCK RIGHT NOW AND DEPENDING ON WHEN SAMPLES ARE RECEIVED THE DAY BEFORE WILL DETERMINE THE QUANTITY. READY AT 8:00 AM EVERYDAY. IT TAKES THE LABORATORY APPROXIMATELY 3 HOURS TO WASH, PREP, ~~AND~~ STERILIZE AND COOL A BATCH OF ICE JARS. PMU HAS ORDERED 100 MORE ICE JARS WHICH WOULD ALLOW THEM TO COLLECT MORE IN A DAY.

2. IT TAKES THE AVERAGE LABORATORY TECHNICIAN APPROXIMATELY 2 TO 2.5 HOURS TO RUN 50 SAMPLES (TUESDAY'S AFTERNOON BACTERIA ANALYSIS) ~~FOR~~ BY MEMBRANE FILTER. THIS IS NOT COUNTING THE TIME REQUIRED TO MELT THE ICE. THE SUBJECT REQUEST IS ~~CALLING FOR~~ DOUBLE THE QUANTITY WE ARE PRESENTLY ANALYZING. ~~THE~~ BASED ON 2.5 HRS ANALYSIS TIME

TO: Director, NREHD

Recommend meeting between Director NREHD, Supervisory Chemist and Preventive Medicine Officer to reach any understanding of what support you are expected to provide PMU.
[illegible]

FROM: SUPERVISORY CHEMIST, WATER QUALITY CONTROL LABORATORY, ENVIRONMENTAL BRANCH, NREAD

TO: SUPERVISORY ECOLOGIST, ENVIRONMENTAL BRANCH, NREAD

SUBJ: PMU'S FY 82 WATER QUALITY CONTROL LABORATORY REQUEST

ENCL: (1) SUBJECT REQUEST

1. BACKGROUND. FOR THE PAST YEAR PMU HAS BEEN SAMPLING ICE MACHINES IN FOOD SERVICE AREAS ABOARD THE BASE FOR [illegible] COLIFORM CONTENT. ANALYSIS HAS BEEN RUN BY THE WATER QUALITY CONTROL LABORATORY. INITIALLY THE SAMPLING WAS ERRATIC HOWEVER FOR THE PAST FOUR MONTHS PMU HAS GENERATED 500-700 ICE SAMPLES A MONTH. THE DAILY QUANTITIES RANGE ANYWHERE FROM ZERO TO 75 SAMPLES. THERE ARE SEVERAL FACTORS (THE MAIN FACTOR ... ONE OF THE MAIN FACTORS IS) THAT CONTROLS THE DAILY QUANTITIES, THE FIRST IS THE NUMBER OF PREPARED ICE SAMPLE JARS THAT ARE READY EACH MORNING. THE LABORATORY HAS ONLY 42 JARS IN STOCK RIGHT NOW AND DEPENDING ON WHEN SAMPLES ARE RECEIVED THE DAY BEFORE WILL DETERMINE THE QUANTITY READY AT 8:00 AM EVERYDAY. IT TAKES THE LABORATORY APPROXIMATELY 3 HOURS TO WASH, PREP, AND STERILIZE AND COOL A BATCH OF ICE JARS. PMU HAS ORDERED 100 MORE ICE JARS WHICH WOULD ALLOW THEM TO COLLECT MORE IN A DAY.

2. IT TAKES THE AVERAGE LABORATORY TECHNICIAN APPROXIMATELY 2 TO 2.5 HOURS TO RUN 60 SAMPLES (TUESDAY'S AFTERNOON BACTERIA ANALYSIS) BY MEMBRANE FILTER. THIS IS NOT COUNTING THE TIME REQUIRED TO MELT THE ICE. THE SUBJECT REQUEST IS [illegible] THE QUANTITY WE ARE PRESENTLY ANALYZING. [illegible] BASED ON 2.5 HRS ANALYSIS TIME

AND 3 HRS SAMPLE PREP TIME AND INCREASE OF 100 SAMPLES A WEEK WOULD MEAN AN INCREASE OF ABOUT 12 MAN HOURS SPENT ON ICE SAMPLES A WEEK. BASED ON PROJECTED SCHEDULES THE LABORATORY COULD ACCEPT ICE SAMPLES ALL DAY MONDAY, ~~AND~~ FROM 1400-1600 ON TUESDAY AND ALL DAY WEDNESDAY - FRIDAY. SAMPLES RECEIVED BEFORE ~~AFTER~~ 1200 WILL HAVE A 24 HOUR TURNAROUND ~~AT~~ AND AFTER 1200 WILL HAVE A 48 HOUR TURNAROUND.

Elizabeth A Betz

Can't see us running samples on Saturday on a routine Basis. Therefore why not Cut off at 1200 hours on Friday.

DP

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

008

IN REPLY REFER TO
6200
37
25 Jul 86

DATE 7-30-86

TO:

BASE MAINT O
PUBLIC WORKS O
COMM-ELECT O
DIR., NAT. RESOURCES & ENV. AFFAIRS
DIR, FAMILY HOUSING
DIR, BACHELOR HOUSING
BASE FIRE CHIEF

ATTN: Mr Wooten

Lejeune, NC (Attn: AC/S

ESTS

ad in FY 87 from the

amples and 10 water samples

laboratory request, but it is
to meet Navy regulations.

ction extension 1930 or

(1) Attached is forwarded for info/action.

Please advise if unable to meet additional demands.

2. Please initial, or comment, and return all papers to this office.

3. Your file copy.

By dir

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

MCBCL 5216/21 (REV. 04-85)

TO: E. Betz Due 8 Aug 86

Please advise how many Additional
Man hours will be required over
historical levels of ice SAMPLES.
i.e. up to the New initiatives.
Sharpe

DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
CAMP LEJEUNE, NORTH CAROLINA 28542-5008

IN REPLY REFER TO
6200
37
25 Jul 86

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, NC (Attn: AC/S Facilities Department)

Subj: FY 87 WATER QUALITY CONTROL LABORATORY REQUESTS

1. This letter is to confirm the projected workload in FY 87 from the Preventive Medicine Branch.

2. It is anticipated that approximately 200 ice samples and 10 water samples per week would be needed.

3. This does represent a significant increase in laboratory request, but it is a true reflection of specimen collection required to meet Navy regulations.

4. Point of contact is HMC Burch, Surveillance Section extension 1930 or myself at extension 5707.

M. P. GENTRY
By direction