6287
NREAD

OCT 02 1986

Division of Environmental Management
North Carolina Department of Natural
Resources and Community Development
7225 Wrightsville Avenue
Wilmington, North Carolina 28403

Dear Sir:

This letter is to report a 24 September 1986 bypass in the Camp Johnson (Montford Point) Wastewater Treatment System, Marine Corps Base, Camp Lejeune, North Carolina. Telephonic notification was made to your office on 24 September 1986. Approximately 3,000 gallons of wastewater were leaked into Northeast Creek when a crack developed in the terra cotta line feeding lift station M-241. The crack developed sometime after 10:00 pm (2200) on 23 September 1986 when the lift station was checked and before 9:45 am on 24 September 1986 when the leak was discovered. The bypass was stopped by 10:00 on 24 September 1986. The line was repaired and the ditch treated with 100 pounds of HTH the same day.

The wastewater went into Northeast Creek and on 24 September 1986 two samples were taken for Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD) and total coliform samples at approximately 2:00 pm (1400). Sample #1, which was upstream of the bypass had a DO of 6.9 mg/l, BOD of 5.1 mg/l and a total coliform of 7000/100 ml. Sample #2, which was downstream of the bypass, had a DO of 6.8 mg/l, BOD of 3.7 mg/l and a total coliform of 6000/100 ml.

If additional information is desired, please contact Ms. Elizabeth A. Betz, Supervisory Chemist at (919) 451-5977.

PETER BLACK
Acting Director, Natural Resources Division
Assistant Chief of Staff, Facilities
By direction of the Commanding General

Copy to:
NAVFACENGCOM

Blind copy to:
NREAD
PMU
NAVHOSP
BMO
QCL (2 copies)

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-062-2320

DEPARTMENT OF THE NAVY

Memorandum

11345.4
MAIN

DATE: 25 September 1986

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch

SUBJ: NPDES PERMIT VIOLATION, M-241 LIFT STATION

1. The terra cotta line feeding lift station M-241 became cracked and a bypass occurred 24 September 1986 of approximately 3000 gallons.

2. The lift station was checked at approximately 2200, 23 September 1986 and the bypass was noted at approximately 0945 on 24 September 1986. The pumps were cut on by hand and the bypass stopped at approximately 1000, 24 September 1986.

3. The line was repaired and 100 pounds of HTH was spread in the ditch to disinfect the discharge.

W. R. Price
W. R. PRICE

- -

11345
MAIN
25 September 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G S Johnson Jr.
G. S. JOHNSON, JR.

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

11345.4
MAIN

25 September 1986

Utilities Systems General Foreman

Director, Utilities Branch

NPDES PERMIT VIOLATION, M-241 LIFT STATION

1. The terra cotta line feeding lift station M-241 became cracked and a bypass occurred 24 September 1986 of approximately 3000 gallons.

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3. The line was repaired and 100 pounds of HTH was spread in the ditch to disinfect the discharge.

W. R. PRICE

- -

11345
MAIN
25 September 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. JOHNSON, JR.

Writer: M.D.Davis, X2069
TYpist: S.H.KOLDE, 25 Sep 86

~~44~~ Wed. 24 Sep 86

	DO	DO_1	DO_5	pH
UP	10.4	6.9	1.8	8.3
DOWN	10.5	6.8	3.1	8.3

Camp Johnson
Sewage Line
Break

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/8 (REV. 11-85)

FILE:

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
Potable		9-24-86

LOCATION	CL_2	TIME	COLIFORM TOTAL	COLIFORM FECAL	
Up Stream #1		1400	.1 = 7000 10 = OG		
Down Stream #2			.1 = 6000 10 = OG		

	DATE	TIME	INITIALS
SAMPLES RECEIVED	9-24-86	1520	LZL
SAMPLES ANALYZED	9-25-86	0930	LZL

COLIFORM ANALYSIS BY: (ME) MPN

DILUTIONS .1
10

REMARKS

SIGNATURE Lynda Z. Lane

DATE 9-26-86

COPY TO

- [x] LAB/FILE
- [ ] NREAD
- [x] BASE PREVENTIVE MEDICINE
- [ ] MCAS PMU
- [ ] UTILITIES DIRECTOR
- [ ] _____
- [x] WATER/WASTEWATER (GENERAL FOREMAN)
- [ ] _____

DEPARTMENT OF THE NAVY

Memorandum

11345.4
MAIN

DID NOT GET INTO

SURFACE WATERS

t Station H-29,totaling
ee and it fell accross
the power lines, disrupting commercial power at approximately 1500. The auxilary generator started immediately and ran for approximately 15 minutes and cut off due to low oil pressure. The gasket between the oil filter and engine block blew, causing the loss of oil. The oil filter was replaced and the generator resumed service at approximately 1545.

B. M. FRAZELLE, II
Acting

11345
MAIN
18 September 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. JOHNSON, JR.

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11345.4
MAIN

DATE: 18 September 1986

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch

SUBJ: NPDES PERMIT VIOLATION, H-29 LIFT STATION

1. A raw sewage bypass occured on 17 Sept.1986 at Lift Station H-29,totaling an estimated 2000 gallons. A contractor cut down a tree and it fell accross the power lines, disrupting commercial power at approximately 1500. The auxilary generator started immediately and ran for approximately 15 minutes and cut off due to low oil pressure. The gasket between the oil filter and engine block blew, causing the loss of oil. The oil filter was replaced and the generator resumed service at approximately 1545.

B. M. FRAZELLE, II
Acting

- -

11345
MAIN
18 September 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. JOHNSON, JR.

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

OPNAV 5[illegible]/144A (Rev. 8-81)
S/N 0107-[illegible]52-2320

DEPARTMENT OF THE NAVY

Memorandum

11345.4
MAIN

DATE: 18 September 1986

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch

SUBJ: NPDES PERMIT VIOLATION, H-29 LIFT STATION

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B. M. FRAZELLE, II
Acting

- -

11345
MAIN
18 September 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. JOHNSON, JR.

U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

6287
NREAD (L)
16 Jun 86

Division of Environmental Management
North Carolina Department of Natural
Resources and Community Development
7225 Wrightsville Avenue
Wilmington, North Carolina 28403

Dear Sir:

This letter is to report a 2 June 1986 bypass in the Tarawa Terrace Wastewater Treatment System, Marine Corps Base, Camp Lejeune, North Carolina. Telephonic notification was made to your office on 2 June 1986. Approximately 7,500 gallons of wastewater overflowed from a manhole in the sewer main at the corner of Tarawa Boulevard and Peleliu Drive. This bypass was caused by a clogged sewer main at approximately 9:45 a.m. The main was cleared and the area treated with HTH by approximately 11:15 a.m.

The wastewater went into a nearby storm drain leading to Northeast Creek. The lower portion of the storm drain is tidal and had an incoming tide at approximately 1:30 p.m. when biochemical oxygen demand (BOD) and fecal coliform samples were taken. Three samples were taken on the storm drain. Sample #1 was pulled in the storm drain near its mouth into Northeast Creek and its BOD was 5.4 mg/l and fecal coliform was 1000/100 ml. Sample #3 was pulled at the upper end of the storm drain at the point where HTH had been added 2-3 hours earlier. Its BOD was 5.1 mg/l and fecal coliform was 30/100 ml. Sample #2 was half way between #1 and #3 and its BOD was 3.5 mg/l and fecal coliform was 0/100 ml.

If additional information is desired, please contact Ms. Elizabeth Betz, Supervisory Chemist at (919) 451-5977.

Sincerely,

J. I. WOOTEN
Director, Natural Resources Division
Assistant Chief of Staff, Facilities
By direction of the Commanding General

Copy to:
NAVFACENGCOM

Blind copy to:
NREA, PMU, NAVHOSP, BMO, QCL

Drafter: E. Betz, NREAD, Typist: T. Hardison, 16 Jun 86

DDS.

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

DATE: 2 Jun 86

FROM: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

TO: Director, Natural Resources and Environmental Affairs Division, AC/S Facilities, Marine Corps Base, Camp Lejeune

SUBJ: SEWER SPILLAGE

1. On 2 June 1986, at approximately 0945, the sewer main at the corners of Tarawa Terrace Boulevard and Peleliu Drive spilled over. It was unstopped at about 1030, 2 June 1986 with approximately 7,500 gallons running into the creek. The creek bed was treated with HTH and the roadway cleaned up.

R. E. Avant

R. E. AVANT
By direction

☆ U.S. GPO 1984 - 705-012/8623

2 June 86

Sewage Bypass reported to Lab at 1010 from D. Sharpe. from manhole in road/street at intersection of Tarawa Blvd and Pelelin Dr.

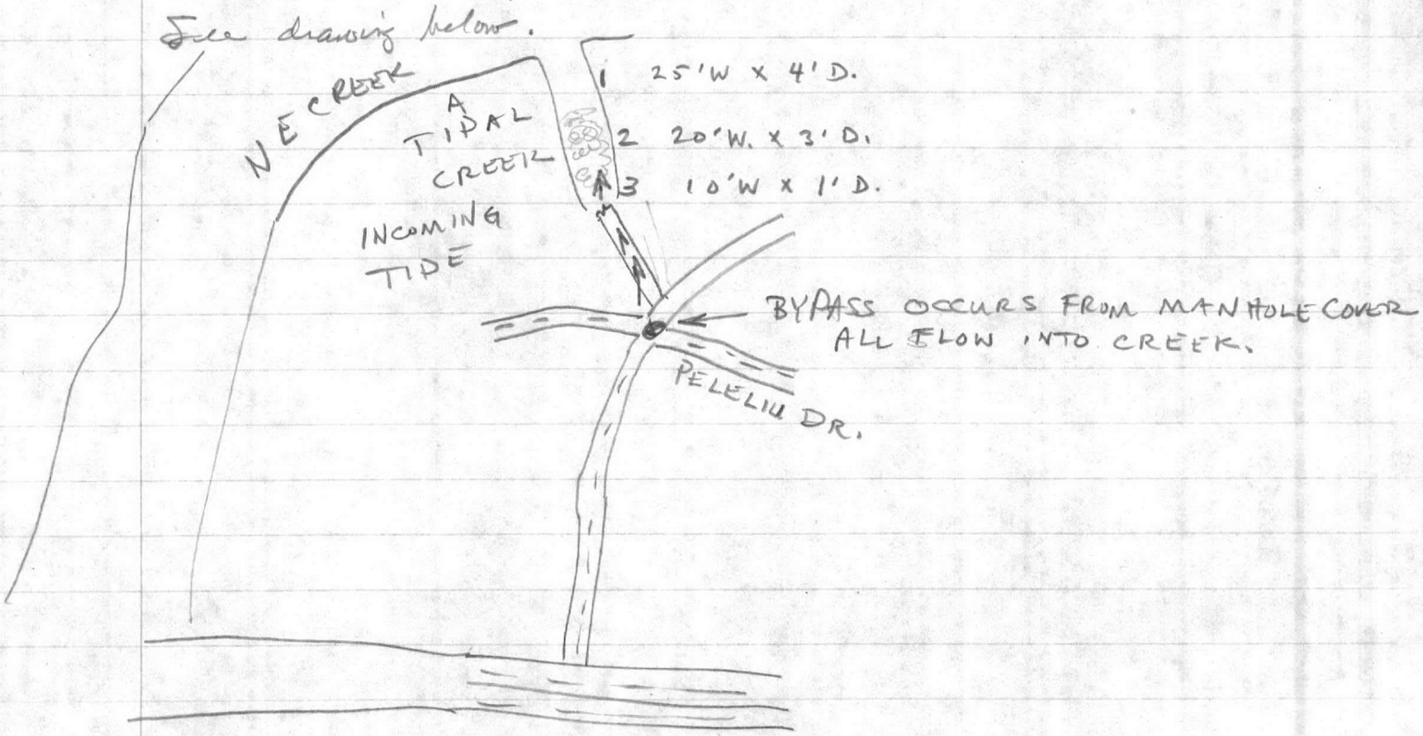
When I arrived at 1030, both utilities personnel and base maintenance personnel were on the scene. Using a high pressure water line and a "gouge" they removed the large grease deposit (household type) that was occluding the flow of sewage in the main.

Quantity of spill estimated 9,000 gallons — 10,000 gal. 100# HTH was added into the small creek. (which happens to be our storm drain #28.)

At 1120 the street had been washed, manhole cover replaced, and all personnel were gone.

Ms. Betz, Supvr Chemist called STEVE LONG to report the bypass. He directed 3 samples be taken from 3 locations in the zone of mixing for D.O., B.O.D, and fecal coliform. I took these samples @ 1315 — 1345.

See drawing below.

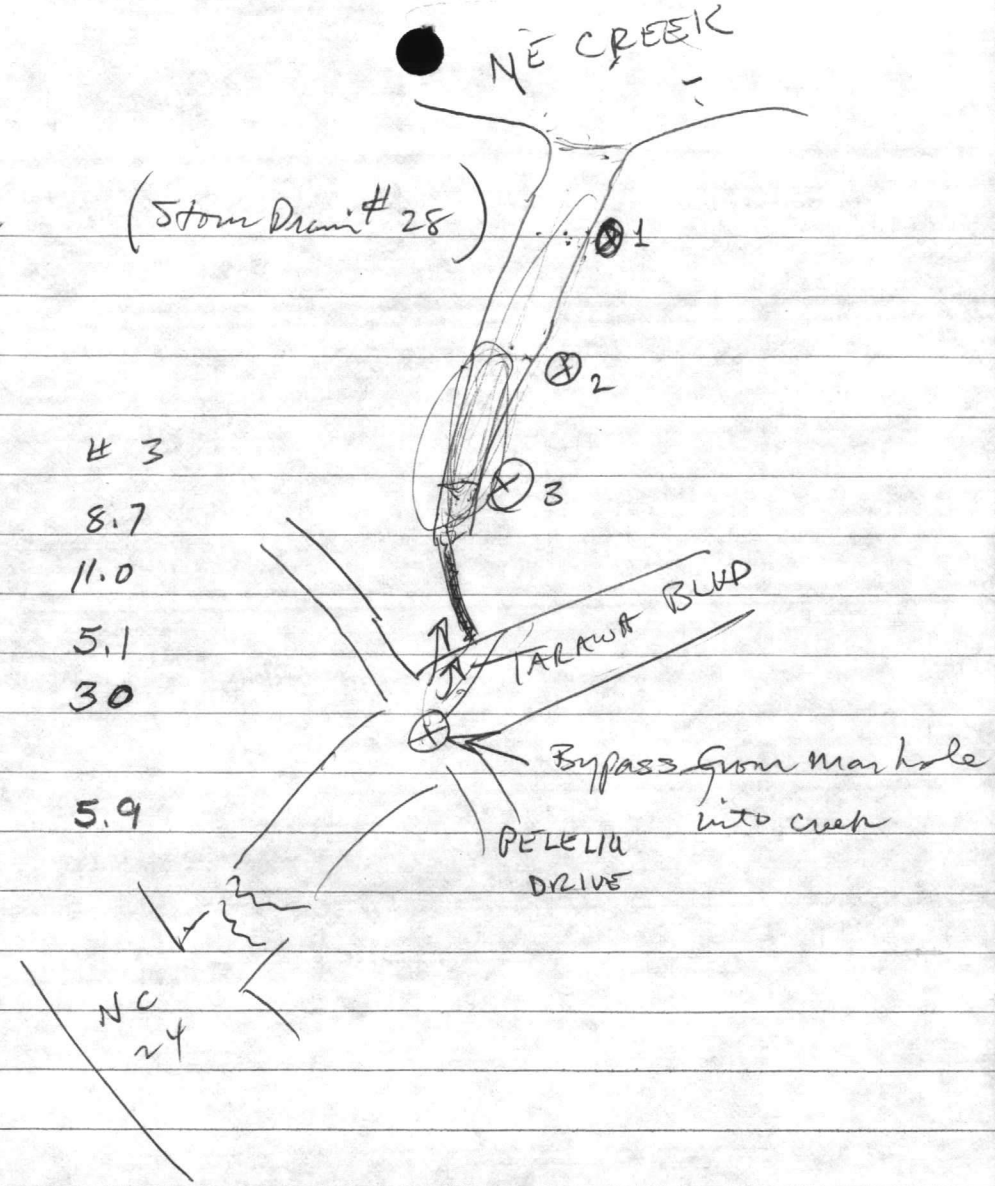


NC 24

Sewage Bypass @ TT. (Storm Drain # 28)

~~No~~ 1, ~~No 2~~, ~~No 3~~.

SAMPLE POINT	#1	#2	#3
pH	7.5	7.4	8.7
D.O.	5.4	5.7	11.0
BOD	5.4	3.5	5.1
Fecal Coliform	1000	0	30
DO_5	0	2.2	5.9



QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/8 (REV. 11-85)

FILE:

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
SURFACE	TAB	2 JUNE 86

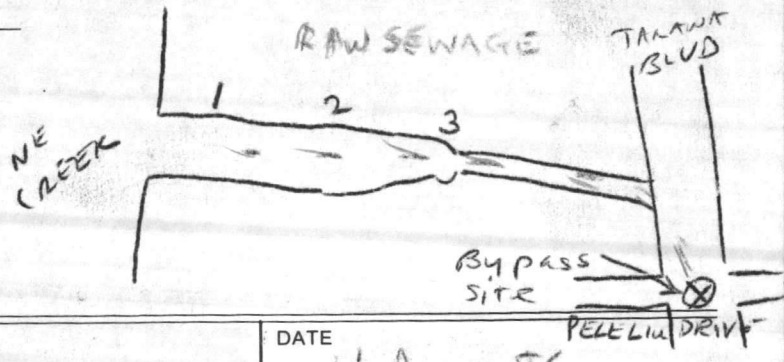
SEWAGE BYPASS LOCATION	CL_2	TIME	COLIFORM ~~TOTAL~~	COLIFORM ✓ FECAL	
				0.1 10	50
NE CREEK 1	0	1330		1000 06	06
2	0			0 0	0
3	0			0 30	06

	DATE	TIME	INITIALS
SAMPLES RECEIVED			
SAMPLES ANALYZED			

COLIFORM ANALYSIS BY: MF MPN

DILUTIONS 0.1, 10, 50

REMARKS



SIGNATURE H. J. Burn

DATE 4 June 86

COPY TO

- [x] LAB/FILE
- [ ] NREAD
- [ ] BASE PREVENTIVE MEDICINE
- [ ] MCAS PMU
- [ ] UTILITIES DIRECTOR
- [ ] _____
- [ ] WATER/WASTEWATER (GENERAL FOREMAN)
- [ ] _____

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/8 (REV. 11-85)

FILE: 11331/4

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
SURFACE	TMB	2 JUNE 86

SEWAGE BYPASS

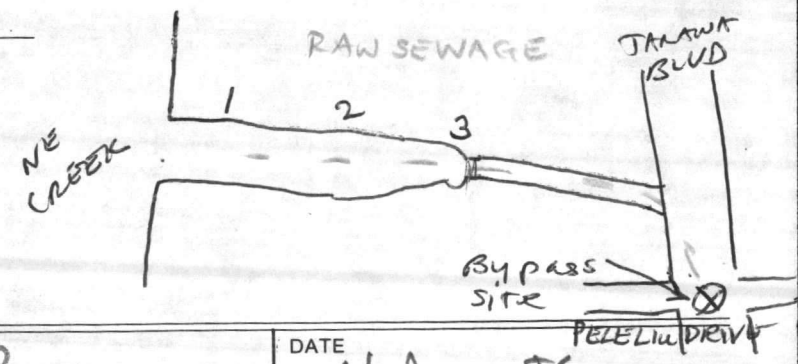
LOCATION	CL_2	TIME	COLIFORM ✓ TOTAL	FECAL 0.1	FECAL 10	FECAL 50
NE CREEK 1	0	1330		1000	06	06
2	0			0	0	0
3	0			0	30	0.6.

	DATE	TIME	INITIALS
SAMPLES RECEIVED			
SAMPLES ANALYZED			

COLIFORM ANALYSIS BY: MF MPN

DILUTIONS 0.1, 10, 50

REMARKS



SIGNATURE H. J. Burn

DATE 4 June 86

COPY TO

- [x] LAB/FILE
- [ ] NREAD
- [ ] BASE PREVENTIVE MEDICINE
- [ ] MCAS PMU
- [ ] UTILITIES DIRECTOR
- [ ] _____
- [ ] WATER/WASTEWATER (GENERAL FOREMAN)
- [ ] _____

6287

NREAD(LAB)

DIVISION OF ENVIRONMENTAL MANAGEMENT
NORTH CAROLINA DEPARTMENT OF NATURAL
RESOURCES AND COMMUNITY DEVELOPMENT
7225 WRIGHTSVILLE AVE
WILMINGTON, N.C. 28403

DEAR SIR:

THIS LETTER IS TO REPORT 2 JUNE 1986 BYPASS IN THE TARAWA TERRACE WASTEWATER TREATMENT SYSTEM, MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA. ~~INITIAL~~ TELEPHONIC NOTIFICATION WAS MADE TO YOUR OFFICE ON 2 JUNE 1986. ~~AND~~ APPROXIMATELY 7,500 GALLONS OF WASTEWATER ~~WAS DISCHARGED~~ SPILLED FROM ~~A MANHOLE~~ ~~A~~ THE SEWER MAIN AT THE CORNERS OF TARAWA TERRACE BOULEVARD AND PELELIU DRIVE THROUGH A MANHOLE. THIS BYPASS WAS CAUSED ~~BY~~ WHEN THE SEWER MAIN BECAME CLOGGED, AT APPROXIMATELY 9:45 AM. ~~THE MAIN HAS BEEN CLEARED~~. THE MAIN WAS CLEARED AND THE EFFECTED AREA TREATED WITH HTH BY AT APPROXIMATELY 1115

THE WASTEWATER WENT ~~A~~ INTO A NEARBY STORM DRAIN LEADING TO NORTHEAST CREEK. THE STORM DRAIN WAS TREATED WITH HTH. BIOCHEMICAL OXYGEN DEMAND (BOD) AND ~~A~~ FECAL COLIFORM SAMPLES WERE TAKEN IN THE STORM DRAIN AT APPROXIMATELY 1:30 PM THAT AFTERNOON.

6287

NREAD(LAB)

DIVISION OF ENVIRONMENTAL MANAGEMENT
NORTH CAROLINA DEPARTMENT OF NATURAL
RESOURCES AND COMMUNITY DEVELOPMENT
7225 WRIGHTSVILLE AVE
WILMINGTON, N.C. 28403

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THE WASTEWATER WENT INTO A NEARBY STORM DRAIN LEADING TO NORTHEAST CREEK. THE STORM DRAIN WAS TREATED WITH HTH. BIOCHEMICAL OXYGEN DEMAND (BOD) AND FECAL COLIFORM SAMPLES WERE TAKEN IN THE STORM DRAIN AT APPROXIMATELY 1:30 PM THAT AFTERNOON.

THE WASTEWATER WENT INTO A NEARBY STORM DRAIN LEADING TO NORTHEAST CREEK. ~~THE LOWER PORTION~~ ~~THE STORM DRAIN WAS TREATED WITH HTH~~. THE LOWER PORTION OF THE STORM DRAIN ~~WAS~~ IS TIDAL AND HAD AN INCOMING TIDE AT APPROXIMATELY 1:30pm (1330) WHEN BIOCHEMICAL OXYGEN DEMAND (BOD) AND FECAL COLIFORM SAMPLES WERE TAKEN. THREE SAMPLES WERE TAKEN IN THE STORM DRAIN. SAMPLE #1 ~~IS~~ WAS PULLED ~~IN THE STORM DRAIN~~ IN THE STORM DRAIN NEAR ~~TO~~ ITS MOUTH INTO NORTHEAST CREEK AND ITS BOD WAS 6.4 mg/L AND FECAL COLIFORM WAS 1000/100 ML. SAMPLE #3 WAS PULLED AT THE UPPER END OF THE STORM DRAIN AT THE POINT WERE HTH HAD BEEN ADDED APPROXIMATELY 2-3 HOURS EARLIER. ITS BOD WAS 5.1 mg/L AND FECAL COLIFORM WAS 30/100 ML. SAMPLE #2 WAS ~~THE~~ HALF WAY BETWEEN #1 & #3 AND ITS BOD WAS 3.5 mg/L AND FECAL COLIFORM WAS 0/100 ML.

QUALITY CONTROL LABORATORY REPORT
MISCELLANEOUS BACTERIOLOGICAL ANALYSIS OF WATER
MCBCL 11330/8 (REV. 11-85)

FILE:

WATER TYPE	SAMPLE COLLECTED BY	DATE COLLECTED
SURFACE	T. B	2 JUNE 86

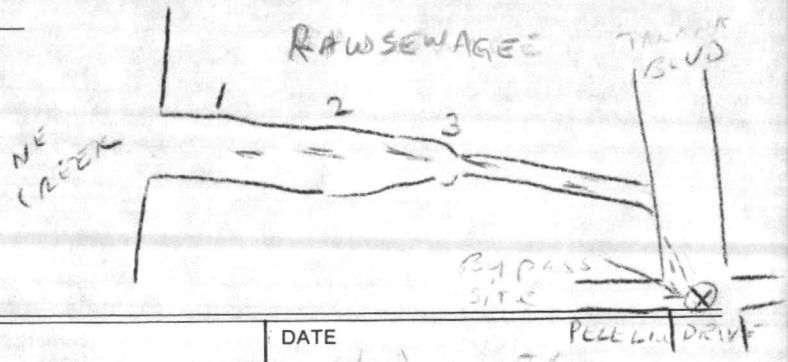
SEWAGE BYPASS LOCATION	CL_2	TIME	COLIFORM TOTAL	COLIFORM FECAL 0.1	COLIFORM FECAL 10	COLIFORM FECAL 50
NE CREEK 1	0	1330		100	0	0
2	0			0	0	0
3	0			0	0	0

	DATE	TIME	INITIALS
SAMPLES RECEIVED			
SAMPLES ANALYZED			

COLIFORM ANALYSIS BY: MF MPN

DILUTIONS 0.1, 10, 50

REMARKS



SIGNATURE

DATE 4 June 86

COPY TO

- [x] LAB/FILE
- [ ] NREAD
- [ ] BASE PREVENTIVE MEDICINE
- [ ] MCAS PMU
- [ ] UTILITIES DIRECTOR
- [ ] _____
- [ ] WATER/WASTEWATER (GENERAL FOREMAN)
- [ ] _____

1230, 29 May 86. Poole, Barber

Visited site of a ~~site~~ break in main sewer from Midway Park
Present were 7 people from Utilities & Base Maintenance incl.
Mr Price and Tony Snodgrass. There were 2 breaks caused by a
bulldozer grading. They had one break repaired when Sam & I
arrived. Sewage was by passing into a low area where it remained.
Snodgrass was treating the flow with HTH.
at 1315, 2nd hole was repaired. Looks like good work
Surveyor's tape was placed on the site.

From: Environmental Protection Specialist, Water Quality Control Lab

To: Supervisory Chemist, Water Quality Control Lab

Subject Report on Sewage bypass between Heavy equipment and Brewster Blvd. on 29 May 86

1. Sam Poole and I visited the site of a break in the main Sewer that connects Midway Park with the Paradise Point Area. When we arrived there were seven people ~~the~~ present from Utilities and Base Maintenance. Two from Utilities I recognized were Willard Price and Tony Snodgrass.

2. A bulldozer operator graded to close to the sewer line and hooked the blade into the pipe and caused two breaks about 20' apart. When we arrived, workers had completed repair on one hole and were working on the second break. We arrived at 1230 and by 1320 both holes were ~~tight~~ water tight. When we left at 1400 another dozer operator had covered the line with about 1-2 feet of dirt. Looked like a good job. Mr L D Shepard came to inspect the repair work.

3. Tony Snodgrass added HTH to the sewage as it flowed from the break and down the slope and collected in a low area where it collected. Most of the sewage was quickly absorbed by the soil. A very rough estimate would be 1000-3000 gallons of sewage was spilled. No solids were ~~observed~~ observed.

Tom Barber

6287
NREAD(LAB)

19 MAR 1986

Division of Environmental Management
North Carolina Department of Natural
Resources and Community Development
7225 Wrightsville Avenue
Wilmington, North Carolina 28403

Dear Sir:

This letter is to report a 6 March 1986 bypass at Lift Station S-47A in the Hadnot Point Wastewater Treatment System, Marine Corps Base, Camp Lejeune, North Carolina. Initial telephonic notification was made to your office on 6 March 1986 and further discussed with Mr. Mike Williams on 7 March 1986. Approximately 10,000 gallons of wastewater were spilled into Wallace Creek. This bypass was caused by a malfunction of the automatic controls causing the pump to continue running. The wet well in the lift station was pumped down and air was pulled into the pump, locking it. The bypass was discovered at 1:00AM just as it started. It lasted approximately one hour while the pump was reprimed. The controls have been repaired.

As requested by your office, a Biochemical Oxygen Demand (BOD) and a Fecal Coliform sample were pulled upstream and downstream of the bypass on 7 March 1986. The upstream BOD and Fecal Coliform results were 3.4 mg/l and 60/100 ml respectively. The downstream BOD and Fecal Coliform results were 3.5 mg/l and 14/100 ml respectively.

If additional information is desired, please contact Ms. Elizabeth Betz, Supervisory Chemist at (919) 451-5977.

Sincerely,

B. W. ELSTON
Acting Assistant Chief of Staff, Facilities
By direction of the Commanding General

Copy to:
NAVFACENGCOM

Blind copy to:
DIR, PMU, NAVHOSP
BMO
→ QCL, NREAD (2)

Writer: E. Betz, NREAD 5977
Typist: J. Cross 19Mar86

Ad6
DDS

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11345.4
MAIN

DATE: 7 March 1986

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch

SUBJ: NPDES PERMIT VIOLATION, S-47A LIFT STATION

1. A raw sewage bypass occurred on 6 March 1986 at lift station S-47A, totaling an estimated 10,000 gallons. Malfunction of the automatic controls caused the pump to continue running. When wet well was pumped down, air was pulled into header, air locking all pumps.

2. The lift station was checked by truck route operator at 2230; everything was in order. The lift station was checked again at 0100 and found the clear well full and just starting to overflow in yard. No notice of a high level alarm was received from the maintenance duty personnel.

3. The controls were repaired, pumps primed and back in operation at 0200.

W R Price
W. R. PRICE

- -

11345
MAIN
7 March 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G S Johnson Jr.
G. S. JOHNSON, JR.

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

11345.4
MAIN

7 March 1986

Utilties Systems General Foreman

Director, Utilities Branch

NPDES PERMIT VIOLATION, S-47A LIFT STATION

1. A raw sewage bypass occurred on 6 March 1986 at lift station S-47A, totaling an estimated 10,000 gallons. Malfunction of the automatic controls caused the pump to continue running. When wet well was pumped down, air was pulled into header, air locking all pumps.

2. The lift station was checked by truck route operator at 2230; everything was in order. The lift station was checked again at 0100 and found the clear well full and just starting to overflow in yard. No notice of a high level alarm was received from the maintenance duty personnel.

3. The controls were repaired, pumps primed and back in operation at 0200.

W. R. PRICE

- -

11345
MAIN
7 March 1986

FIRST ENDORSEMENT

From: Director, Utilities Branch
To: Director, Natural Resources and Environmental Affairs

1. Forwarded for appropriate action.

G. S. JOHNSON, JR.

A47

→ INTO WALLACE CREEK

BY TRUCK ROUTE ABOUT 0105 JUST STARTED PUSHING MANHOLE.

EQUIPMENT MALFUNCTION

- MAIN PUMP PUMPED GOT AIR LOCKED WOULD RUN, WOULDN'T PUMP.

- ? HIGH LEVEL ALARMS (NO RESPONSE)

- CONTAINED BY 0800 WITH A PUMP.

- ABOUT 1 HR 150 - 200 GALLONS/MIN 10,-15,000 WENT OUT.

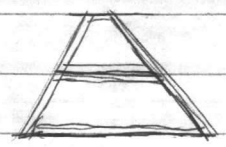
- USED 4TH

BOD	UPSTREAM	0900 3/8/86
F. COLI	DOWNSTREAM	

MIKE WILLIAMS
7225 WRIGHTSVILLE AVE
WILMINGTON, NC 28403

N.C. DEPT OF NATURAL RESOURCES

BYPASS



1986