

TRIHALOMETHANE REPORTS

APRIL 1982 - FEBRUARY 1985

<u>REPORT DATE</u>	<u>SAMPLE DATE(S)</u>	<u>COMMENTS</u>
MAY 6, 1982	APR 19-20, 1982	INITIAL ANALYSIS BY STATE CERTIFIED LABORATORY
JUN 9, 1982	MAY 27-28, 1982	
JUL 13, 1982	JUN 24-25, 1982	
AUG 11, 1982	JUL 28-29, 1982	
DEC 9, 1982	NOV 26&29, 1982	QUARTERLY SAMPLING INITIATED
MAR 16, 1983	FEB 24-25, 1983	
JUN 15, 1983	MAY 27, 1983	
SEP 16, 1983	AUG 25-26, 1983	
JAN 18, 1984	DEC 29-30, 1983	SAMPLING OF LARGE SYSTEMS (HP & NR) ONLY INITIATED
APR 9, 1984	MAR 27-28, 1984	HP SAMPLING REDUCED TO ONE SAMPLING POINT
JUL 10, 1984	JUN 27, 1984	
OCT 3, 1984	SEP 21, 1984	
4th QUARTER 1984 - NO SAMPLING DATA		
1st QUARTER 1985 - SAMPLING DONE IN MARCH 1985		

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GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

May 6, 1982
82-3637

Commanding General
Marine Corps Base
Camp Lejeune, NC 28542

Attn: AC/S Facilities

Subject: Analysis of samples received 4/26/82

Sample Identification: Purchase Order # M06760C1-82-M2-5084

41 bottles of THM

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
001	1	4	3	2	10
002	1	5	4	2	12
003	1	5	3	2	11
004	1	4	3	2	10
005	1	4	3	2	10
006	3	3	1	<1	7
007	3	4	2	<1	9
008	2	<1	<1	<1	2
009	3	4	2	<1	9
010	3	4	2	<1	9
011	4	4	2	<1	10
012	11	15	20	5	51



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RESULTS
(cont'd.)

013	13	21	28	11	73
014	15	28	45	32	120
015	15	25	37	22	99
016	15	24	37	24	100
017	18	8	2	<1	28
018	22	9	2	<1	33
019	24	11	3	<1	38
020	20	13	2	<1	35
021	23	21	3	<1	47
022	29	15	4	<1	48
023	29	14	4	<1	47
024	29	15	4	<1	48
025	28	14	4	<1	46
026	29	15	5	<1	49
027	27	13	4	<1	44
028	27	13	4	<1	44
029	29	13	4	<1	45
030	29	14	4	<1	47
031	38	18	6	<1	62
032	32	9	1	<1	42

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RESULTS
(cont'd,)

033	41	10	2	<1	53
034	32	9	1	<1	42
035	39	6	<1	<1	45
036	29	9	1	<1	39
037	23	20*	2	<1	45**
038	28	20*	3	<1	51**
039	25	20*	2	<1	47**
040	25	20*	2	<1	47**
041	28	20*	3	<1	51**

* This represents an upper limit on the possible Bromodichloromethane level.

** This represents an upper limit on the possible total trihalomethane level.

NOTE: All results reported in micrograms per liter.

NOTE: All samples were analyzed on May 3, 1982

W. Paul Brafford
W. Paul Brafford
Laboratory Supervisor

WPB:ss
Customer #92400

cc: Attn: NREAB, QC Lab, Commanding General, Department of Navy,
Base Maintenance Div., Marine Corp. Base, Camp Lejeune, NC 28541

0000005186

TRIHALOMETHANE SAMPLING

MONTH: APRIL

YEAR: 1982

SAMPLE # SAMPLE LOCATION TIME

WTP: Tarawa Terrace Sampler: LACHAPPELLE + BETZ Date: 19 APR 82

001	Bldg STT-39A, Water Plant @ 1st Pump	1341
002	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	1334
003	Bldg TT-48, TT Elem School II, Men's Head across Office	1410
004	Bldg TT-2453, TT Exchange gas Station's Ladies Room	1350
005	Bldg TT-35, Sewage Plant's Office Sink	1358

WTP: Sampler: LACHAPPELLE + BETZ Date: 19 APR 82

006	Bldg E-23, Sewage Lift Station, Knox Trailer Park	1430
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WTP: Montford Point Sampler: LACHAPPELLE + BETZ Date: 19 APR 82

007	Bldg M-178, Water Plant @ Sink faucet	1445
008	Bldg M-625, Steam Plant, Bathroom Sink	1438
009	Bldg M-128, Branch Clinic, Men's Head	1452
010	Bldg M-136, Sewage Plant Sink	1459
011	Bldg M-231, BOQ, 1st floor Men's Head	1510

WTP: New River Sampler: HUNECUIT + BETZ Date: 20 APR 82

012	Bldg AS-110, Water Plant @ Pump	1255
013	Bldg G-520, Career Planner, 2nd floor Men's Room	1345
014	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1310
015	Bldg 710, Officer's Club Gally Sink	1325
016	Bldg 2800, Boat Marina Men's Room	1335

WTP: Holcomb Blvd Sampler: HUNECUIT + BETZ Date: 20 APR 82

017	Bldg 670, Water Plant @ Pump	1425
018	Bldg 4022, Fire Station, Bathroom Sink	1410
019	Bldg 1915, Golf Course, Men's Locker Room	1435
020	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1455
021	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	CLM

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TRIHALOMETHANE SAMPLING

MONTH: April

YEAR: 1982

TIME

SAMPLE #	SAMPLE LOCATION	
WTP: Rifle Range Sampler: MONAHAN + Bete Date: 21 Apr 1982		
022	Bldg RR-85, Water Plant @ Finish Tap	1235
023	Bldg RR-6, Fire House Sink	1243
024	Bldg RR-10, Snack Bar Sink	1250
025	Bldg RR-200, Across from Target Shed	1320
026	Bldg RR-92, Sewage Plant Sink	1330
WTP: Courthouse Bay Sampler: MONAHAN + Bete Date: 21 Apr 1982		
027	Bldg BB-190, Water Plant @ Faucet	1435
028	Bldg BB-7, Mess Hall Sink	1415
029	Bldg BB-54, Service Club	1425
030	Bldg SBB-204, Sewage Plant Sink	1405
031	Bldg BB-46, Marina Bathroom Sink	1352
WTP: Onslow Beach Sampler: MONAHAN + Bete Date: 21 Apr 1982		
032	Bldg BA-138, Water Plant	1448
034	Bldg BA-103, Mess Hall	1515
033		1505
033	Campsite #2, Spigot 10 (Mainland)	1505
034		1515
035	Campsite #1, Spigot 2 (Beachside)	1530
036	Bldg SBA-142, Spigot at bottom of Pier	1523
WTP: Hadnot Point Sampler: HONEYCUTT + Bete Date: 22 Apr 1982		
037	Bldg 20, Water Plant @ Pump	1400
038	Bldg NH-1, Emergency Room Sink	1410
039	Bldg 1202, Men's Room Sink	1500
040	Bldg 65, Quality Control Lab, Room 220 Sink	1530
041	Bldg FC-530, Laundry Room Sink, 1st floor	1515

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GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

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ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

June 9, 1982
82-3869

Commanding General
Marine Corps Base
Camp Lejeune, NC 28542

Attn: AC/S Facilities

Subject: Analysis of samples received 6/1/82

Sample Identification: Purchase Order # M06760C1-82-M2-5084

.36 bottles of THM

RESULTS

(See attached sheets)

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

W. Paul Brafford

W. Paul Brafford
Laboratory Supervisor

WPB:ss

Customer #92400

cc: Attn: Elizebeth Betz, NREAB, QC Lab, Commanding General,
Department of Navy, Base Maintenance Div., Marine Corp. Base, Camp
Lejeune, NC 28542



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RESULTS

Sample	Chloroform	Bromodichloromethane	Chlorodibromomethane	Bromoform	Total Trihalomethane	Date Completed
83	1	4	3	2	10	6/8/82
84	2	6	5	3	16	6/8/82
85	2	5	5	3	15	6/8/82
86	1	4	4	2	11	6/8/82
87	1	4	3	2	10	6/8/82
89	2	3	2	1	8	6/8/82
90	<1	<1	<1	<1	<1	6/8/82
91	2	3	2	<1	7	6/8/82
92	1	3	2	<1	6	6/8/82
93	2	4	3	1	10	6/8/82
94	5	10	17	8	40	6/9/82
95	12	25	40	19	96	6/9/82
96	7	15	30	18	70	6/9/82
97	8	18	36	21	83	6/9/82
98	10	24	46	25	105	6/9/82
99	14	6	3	<1	23	6/8/82
100	15	7	4	<1	26	6/8/82
101	24	10	6	<1	40	6/8/82
102	16	8	4	<1	28	6/8/82
103	20	9	4	<1	33	6/8/82
104	25	13	5	<1	43	6/9/82
105	25	12	5	<1	42	6/9/82
106	25	13	5	<1	43	6/9/82

RESULTS
 (cont'd.)

107	32	16	7	<1	55	6/9/82
108	23	11	5	<1	39	6/9/82
109	24	11	4	<1	39	6/4/82
110	23	10	4	<1	37	6/4/82
111	20	9	3	<1	32	6/4/82
112	21	9	3	<1	33	6/4/82
113	30	14	5	<1	49	6/4/82
114	24	7	1	<1	32	6/8/82
115	36	9	2	<1	47	6/8/82
116	47	11	3	<1	61	6/8/82
117	42	7	1	<1	50	6/8/82
118	35	6	1	<1	42	6/8/82
119	13	10*	4	<1	27**	6/8/82
120	15	10*	4	<1	29**	6/8/82
121	14	10*	4	<1	28**	6/8/82
122	12	10*	3	<1	25**	6/8/82
123	14	10*	4	<1	28**	6/8/82

*This represents a probable upper limit on the concentration of Bromodichloromethane; there is interference in this set by an unknown compound.

**Likewise, these represent a probable upper limit on the total THM content.

SPECIAL NOTE

Samples 042 through 082 (omitting 047) were rejected due to improper sampling as explained by Mike Hargett in his 6/4/82 letter to Ms. Elizabeth Betz.

NOTE: All results reported in micrograms per liter.

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TRICHALOMETHANE SAMPLING

MONTH: MAY
 YEAR: 1982 TIME

SAMPLE # SAMPLE LOCATION
 WTP: Tarawa Terrace Sampler: HONEYCUTT Date: 28 MAY 1982

<u>083</u>	Bldg STT-39A, Water Plant @ 1st Pump	<u>1015</u>
<u>084</u>	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	<u>0923</u>
<u>085</u>	Bldg TT-48, TT Elem School II, Men's Head across Office	<u>0954</u>
<u>086</u>	Bldg TT-2453, TT Exchange gas Station's Ladies Room	<u>0939</u>
<u>087</u>	Bldg TT-35, Sewage Plant's Office Sink	<u>0948</u>

WTP: NOT COLLECTED Sampler: HONEYCUTT Date: 25 MAY 1982 NOT COLLECTED

<u>088</u>	Bldg E-23, Sewage Lift Station, Knox Trailer Park	<u>NOT COLLECTED</u>
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WTP: Montford Point Sampler: HONEYCUTT Date: 28 MAY 1982

<u>089</u>	Bldg M-178, Water Plant @ Sink faucet	<u>1034</u>
<u>090</u>	Bldg M-625, Steam Plant, Bathroom Sink	<u>1028</u>
<u>091</u>	Bldg M-128, Branch Clinic, Men's Head	<u>1040</u>
<u>092</u>	Bldg M-136, Sewage Plant Sink	<u>1053</u>
<u>093</u>	Bldg M-231, BOQ, 1st floor Men's Head	<u>1045</u>

WTP: New River Sampler: HONEYCUTT Date: 28 MAY 1982

<u>094</u>	Bldg AS-110, Water Plant @ Pump	<u>1125</u>
<u>095</u>	Bldg G-520, Career Planner, 2nd floor Men's Room	<u>1110</u>
<u>096</u>	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	<u>1135</u>
<u>097</u>	Bldg 710, Officer's Club Gally Sink	<u>1155</u>
<u>098</u>	Bldg 2800, Boat Marina Men's Room	<u>1145</u>

WTP: Holcomb Blvd Sampler: HONEYCUTT Date: 27 MAY 1982

<u>099</u>	Bldg 670, Water Plant @ Pump	<u>1022</u>
<u>100</u>	Bldg 4022, Fire Station, Bathroom Sink	<u>1033</u>
<u>101</u>	Bldg 1915, Golf Course, Men's Locker Room	<u>1045</u>
<u>102</u>	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	<u>1105</u> 1105
<u>103</u>	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	<u>1055</u>

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TRIHALOMETHANE SAMPLING

MONTH: MAY
 YEAR: 1982
 TIME

SAMPLE #/ SAMPLE LOCATION
 WTP: Rifle Range Sampler: HONEYCUTT Date: 28 MAY 1982

<u>104</u>	Bldg RR-85, Water Plant @ Finish Tap	<u>1223</u>
<u>105</u>	Bldg RR-6, Fire House Sink	<u>1226</u>
<u>106</u>	Bldg RR-10, Snack Bar Sink	<u>1245</u>
<u>107</u>	Bldg RR-200, Across from Target Shed	<u>1230</u>
<u>108</u>	Bldg RR-92, Sewage Plant Sink	<u>1237</u>

WTP: Courthouse Bay Sampler: _____ Date: _____

<u>109</u>	Bldg BB-190, Water Plant @ Faucet	
<u>110</u>	Bldg BB-7, Mess Hall Sink	
<u>111</u>	Bldg BB-54, Service Club	
<u>112</u>	Bldg SBB-204, Sewage Plant Sink	
<u>113</u>	Bldg BB-46, Marina Bathroom Sink	

WTP: Onslow Beach Sampler: HONEYCUTT Date: 27 MAY 1982

<u>114</u>	Bldg BA-138, Water Plant @ FAUCET	<u>1405</u>
<u>115</u>	Bldg BA-103, Mess Hall	<u>1425</u>
<u>116</u>	Campsite #2, Spigot 10 (Mainland)	<u>1415</u>
<u>117</u>	Campsite #1, Spigot 2 (Beachside)	<u>1445</u>
<u>118</u>	Bldg SBA-142, Spigot at bottom of Pier	<u>1435</u>

WTP: Hadnot Point Sampler: HONEYCUTT Date: 27 MAY 1982

<u>119</u>	Bldg 20, Water Plant @ Pump	<u>1133</u>
<u>120</u>	Bldg NH-1, Emergency Room Sink	<u>1123</u>
<u>121</u>	Bldg 1202, Men's Room Sink	1330 <u>1333</u>
<u>122</u>	Bldg 65, Quality Control Lab, Room 220 Sink	<u>1315</u>
<u>123</u>	Bldg FC-530, Laundry Room Sink, 1st floor	<u>1345</u>

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TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #/ SAMPLE LOCATION
WTP: Rifle Range Sampler: Date: TIME

Bldg RR-85, Water Plant @ Finish Tap

Bldg RR-6, Fire House Sink

Bldg RR-10, Snack Bar Sink

Bldg RR-200, Across from Target Shed

Bldg RR-92, Sewage Plant Sink

WTP: Courthouse Bay Sampler: *Lachapelle* Date: *5-28-82*

109 Bldg BB-190, Water Plant @ Faucet

1440

110 Bldg BB-7, Mess Hall Sink

1455

111 Bldg BB-54, Service Club

1435

112 Bldg SBB-204, Sewage Plant Sink

1500

113 Bldg BB-46, Marina Bathroom Sink

1450

WTP: Onslow Beach Sampler: Date:

Bldg BA-138, Water Plant

Bldg BA-103, Mess Hall

Campsite #2, Spigot 10(Mainland)

Campsite #1, Spigot 2(Beachside)

Bldg SBA-142, Spigot at bottom of Pier

WTP: Hadnot Point Sampler: Date:

Bldg20, Water Plant @ Pump

Bldg NH-1, Emergency Room Sink

Bldg 1202, Men's Room Sink

Bldg 65, Quality Control Lab, Room 220 Sink

Bldg FC-530, Laundry Room Sink, 1st floor

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GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environmental Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

July 13, 1982
82-4204

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
HPLC

Commanding General
Marine Corps Base
Camp Lejeune, NC 28542

Attn: AC/S Facilities

Subject: Analysis of samples received 6-28-82

Sample Identification: Purchase Order # M0676001-82-M2-5084

35 bottles of THM

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
124	1	3	5	4	13
125	3	6	11	8	28
126	2	5	9	7	23
127	1	4	6	5	16
128	2	4	6	5	17
130	3	3	3	<1	9
131	3	1	<1	<1	4
132	3	4	<1	<1	7
133	3	3	2	<1	8
134	3	4	3	<1	10
135	6	12	21	13	52
136	13	25	39	17	94
137	10	22	39	21	92
138	11	25	39	20	95
139	17	35	48	18	118
140	9	5	7	1	22
141	9	5	7	1	22
142	15	7	8	2	32

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RESULTS
 (cont.)

143	14	7	8	1	30
144	14	7	8	1	30
145	36	17	6	1	60
146	33	15	6	1	55
147	41	19	7	1	63
148	41	17	7	1	66
149	38	17	6	1	62
150	21	13	8	1	43
151	24	15	9	1	49
152	20	12	7	1	40
153	23	15	8	1	47
154	38	23	7	1	64
155	35	8	1	<1	44
156	46	11	2	<1	59
157	54	11	3	<1	68
158	51	11	3	<1	65
159	54	12	2	<1	68
160	3	*5	5	1	14 **
161	4	*5	5	1	15 **
162	3	*5	6	1	15 **
163	3	*5	5	1	14 **
164	2	*5	5	1	13 **

* Represents an upper limit on the possible Bromodichloromethane level
 ** Represents an upper limit on the possible total Trihalomethane.

NOTE: All results reported in micrograms per liter.
 All samples completed on July 8, 1982.

W. Paul Brafford
 W. Paul Brafford
 Laboratory Supervisor

WPB/ab

CLW

000005196

TRIHALOMETHANE SAMPLING

MONTH: JUNE
YEAR: 1982
TIME

SAMPLE # SAMPLE LOCATION
WTP: Tarawa Terrace Sampler: HONEYCUTT Date: 24 JUNE 1982

<u>121</u>	Bldg STT-39A, Water Plant @ 1st Pump	<u>1320</u>
<u>125</u>	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	<u>1310</u>
<u>126</u>	Bldg TT-48, TT Elem School II, Men's Head across Office	<u>1340</u>
<u>127</u>	Bldg TT-2453, TT Exchange gas Station's Ladies Room	<u>1325</u>
<u>128</u>	Bldg TT-35, Sewage Plant's Office Sink	<u>1333</u>

WTP: Sampler: L Date: .
129 Bldg E-23, Sewage Lift Station, Knox Trailer Park NOT COLLECTED

WTP: Montford Point Sampler: HONEYCUTT Date: 24 JUNE 1982

<u>130</u>	Bldg M-178, Water Plant @ Sink faucet	<u>1354</u>
<u>131</u>	Bldg M-625, Steam Plant, Bathroom Sink	<u># 1353</u>
<u>132</u>	^{B-SEPTUM RECEIVED INVERTED} Bldg M-128, Branch Clinic, Men's Head	<u>1403</u>
<u>133</u>	Bldg M-136, Sewage Plant Sink	<u>1415</u>
<u>134</u>	Bldg M-231, BOQ, 1st floor Men's Head	<u>1410</u>

WTP: New River Sampler: HONEYCUTT Date: 25 JUNE 1982

<u>135</u>	Bldg AS-110, Water Plant @ Pump	<u>1005</u>
<u>136</u>	Bldg E-520, Career Planner, 2nd floor Men's Room	<u>0953</u>
<u>137</u>	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	<u>1020</u>
<u>138</u>	Bldg 710, Officer's Club Gally Sink	<u>1045</u>
<u>139</u>	Bldg 2800, Boat Marina Men's Room	<u>1035</u>

WTP: Holcomb Blvd Sampler: HONEYCUTT Date: 25 JUNE 1982

<u>140</u>	Bldg 670, Water Plant @ Pump	<u>0925</u>
<u>141</u>	Bldg 4022, Fire Station, Bathroom Sink	<u>0930</u>
<u>142</u>	Bldg 1915, Golf Course, Men's Locker Room	<u>0855</u>
<u>143</u>	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	<u>0915</u>
<u>144</u>	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink <u>TURBIDITY</u>	<u>0905</u>

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TRIHALOMETHANE SAMPLING

MONTH:

YEAR:

SAMPLE # SAMPLE LOCATION TIME

WTP: Rifle Range Sampler: HONEYCUT Date: 25 JUNE 1982

145	Bldg RR-85, Water Plant @ Finish Tap	1115
146	Bldg RR-6, Fire House Sink	1120
147	Bldg RR-10, Snack Bar Sink	1145
148	Bldg RR-200, Across from Target Shed	1130
149	Bldg RR-92, Sewage Plant Sink	1138

WTP: Courthouse Bay Sampler: HONEYCUT Date: 25 JUNE 1982

150	Bldg BB-190, Water Plant @ Faucet	1208
151	Bldg BB-7, Mess Hall Sink	1225
152	Bldg BB-54, Service Club	1230
153	Bldg SBB-204, Sewage Plant Sink	1220
154	Bldg BB-46, Marina Bathroom Sink	1213

WTP: Onslow Beach Sampler: BURNS + MONAHAN Date: 25 JUNE 82

155	Bldg BA-138, Water Plant	1330
156	Bldg BA-103, Mess Hall	1345
157	Campsite #2, Spigot 10 (Mainland)	1322
158	Campsite #1, Spigot 2 (Beachside)	1400
159	Bldg SBA-142, Spigot at bottom of Pier	1350

WTP: Hadnot Point Sampler: BURNS + MONAHAN Date: 25 JUNE 82

160	Bldg 20, Water Plant @ Pump	1440
161	Bldg NH-1, Emergency Room Sink	1455
162	Bldg 1202, Men's Room Sink	1435
163	Bldg 65, Quality Control Lab, Room 220 Sink	1510
164	Bldg FC-530, Laundry Room Sink, 1st floor	1415

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GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

August 11, 1982
82-4488

Commanding General
Marine Corps Base
Camp Lejeune, N.C. 28542

Attention: AC/S Facilities

Subject: Analyses of samples received 8/2/82

Sample Identification:

	<u>Date</u>	<u>Sample #</u>	<u>WTP</u>	<u>Time</u>
1.	July 28, 1982	165 A&B*	TT	1005
2.	July 28, 1982	166 A&B	TT	0955
3.	July 28, 1982	167 A&B	TT	1030
4.	July 28, 1982	168 A&B	TT	1013
5.	July 28, 1982	169 A&B	TT	1020
6.	July 29, 1982	171 A&B	MP	1227
7.	July 29, 1982	172 A&B	MP	1257
8.	July 29, 1982	173 A&B	MP	1235
9.	July 29, 1982	174 A&B	MP	1250
10.	July 29, 1982	175 A&B	MP	1240
11.	July 29, 1982	176 A&B*	NR	1110
12.	July 29, 1982	177 A&B	NR	1209
13.	July 29, 1982	178 A&B	NR	1122
14.	July 29, 1982	179 A&B	NR	1145
15.	July 29, 1982	180 A&B	NR	1135
16.	July 29, 1982	181 A&B*	HB	1337
17.	July 29, 1982	182 A&B	HB	1345
18.	July 29, 1982	183 A&B	HB	1356
19.	July 29, 1982	184 A&B	HB	1415
20.	July 29, 1982	185 A&B	HB	1404
21.	July 29, 1982	186 A&B*	RR	1019

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCHA



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Sample Identification
 (Continued)

22. July 29, 1982	187 A&B	RR	1023
23. July 29, 1982	188 A&B	RR	1047
24. July 29, 1982	189 A&B	RR	1030
25. July 29, 1982	190 A&B	RR	1040
26. July 29, 1982	191 A&B*	CHB	1000
27. July 29, 1982	192 A&B	CHB	0941
28. July 29, 1982	193 A&B	CHB	0954
29. July 29, 1982	194 A&B	CHB	0948
30. July 29, 1982	195 A&B	CHB	0936
31. July 29, 1982	196 A&B*	OB	0907
32. July 29, 1982	197 A&B	OB	0848
33. July 29, 1982	198 A&B	OB	0912
34. July 29, 1982	199 A&B	OB	0840
35. July 29, 1982	200 A&B	OB	0856
36. July 28, 1982	201 A&B*	HP	1100
37. July 28, 1982	202 A&B	HP	1413
38. July 28, 1982	203 A&B	HP	1347
39. July 28, 1982	204 A&B	HP	1425
40. July 28, 1982	205 A&B	HP	1358

* Sample point not required by SDWA

RESULTS

Sample	Chloroform	Bromodichloro- Methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
1	<1	3	4	2	9
2	<1	6	9	5	20
3	<1	5	8	4	17
4	4	11	16	8	39
5	<1	3	4	2	9

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0000005200

RESULTS
 (cont.)

6	1	3	3	4	8
7	<1	2	1	<1	3
8	1	3	3	1	8
9	<1	2	1	<1	3
10	<1	3	3	1	7
11	1	9	25	29	64
12	7	25	54	40	126
13	3	14	39	38	94
14	2	13	38	41	94
15	6	24	60	45	135
16	3	6	5	2	16
17	6	8	7	2	23
18	10	10	8	2	30
19	7	8	7	3	25
20	7	9	8	2	26
21	26	12	5	<1	43
22	26	12	5	<1	43
23	29	13	5	<1	47
24	33	16	7	<1	56
25	25	12	5	<1	42
26	24	9	3	<1	36
27	23	8	3	<1	34
28	25	9	3	<1	37
29	20	12	7	<1	39
30	47	15	5	<1	67
*31	8	2	1	<1	11
32	34	9	2	<1	45
33	30	7	1	<1	38
34	35	9	2	<1	46
35	38	10	2	<1	50

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			RESULTS (cont.)		
36	16	20**	5	<1	41***
37	19	20**	6	<1	45***
38	17	20**	5	<1	42***
39	17	20**	5	<1	42***
40	21	20**	6	<1	47***

* Both Duplicates contained large air bubbles.

** Represents an upper limit on the Bromodichloromethane level.

*** Represents an upper limit on the total Trihalomithane Level.

NOTE: All results reported in micrograms per liter.
Analyses completed 8/10/82.

W. Paul Brafford
W. Paul Brafford
Laboratory Supervisor

WPB/ab
Customer #92400

cc: Attn: Elizabeth Batz, NREAB, OC Lab, Commanding General,
Department of Navy, Base Maintenance Div., Marine Corp. Base, Camp
Lejeune, NC 28542

CLW
0000005202

TRihalOMETHANE SAMPLING

MONTH: JULY
YEAR: 1982

SAMPLE # SAMPLE LOCATION
WTP: Tarawa Terrace Sampler: HONEYCOTT Date: 23 July 1982 TIME

165	Bldg STT-39A, Water Plant @ 1st Pump	1025
166	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	0955
167	Bldg TT-48, TT Elem School II, Men's Head across Office	1030
168	Bldg TT-2453, TT Exchange gas Station's Ladies Room	1013
169	Bldg TT-35, Sewage Plant's Office Sink	1020

WTP: Sampler: Date: **NOT COLLECTED**

170 Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: Date: 29 July 1982

171	Bldg M-178, Water Plant @ Sink faucet	1227
172	Bldg M-625, Steam Plant, Bathroom Sink	1257
173	Bldg M-128, Branch Clinic, Men's Head	1235
174	Bldg M-136, Sewage Plant Sink	1250
175	Bldg M-231, BOQ, 1st floor Men's Head	1240

WTP: New River Sampler: Date: 29 July 1982

176	Bldg AS-110, Water Plant @ Pump	1110
177	Bldg E-520, Career Planner, 2nd floor Men's Room	1209
178	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1122
179	Bldg 710, Officer's Club Gally Sink	1145
180	Bldg 2800, Boat Marina Men's Room	1135

WTP: Holcomb Blvd Sampler: Date: 29 July 1982

181	Bldg 670, Water Plant @ Pump	1337
182	Bldg 4022, Fire Station, Bathroom Sink	1345
183	Bldg 1915, Golf Course, Men's Locker Room	1356
184	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1415
185	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	1404

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TRIHALOMETHANE SAMPLING

MONTH: July
YEAR: 1982
TIME

SAMPLE## SAMPLE LOCATION

WTP: Rifle Range Sampler:

Date: 29 July 1982

186	Bldg RR-85, Water Plant @ Finish Tap	1019
187	Bldg RR-6, Fire House Sink	1023
188	Bldg RR-10, Snack Bar Sink	1047
189	Bldg RR-200, Across from Target Shed	1030
190	Bldg RR-92, Sewage Plant Sink	1040

WTP: Courthouse Bay

Sampler: Huneycutt & Lachapelle

Date: 29 July 82

191	Bldg BB-190, Water Plant @ Faucet	1000
192	Bldg BB-7, Mess Hall Sink	0941
193	Bldg BB-54, Service Club	0954
194	Bldg SBB-204, Sewage Plant Sink	0948
195	Bldg BB-46, Marina Bathroom Sink	0936

WTP: Onslow Beach

Sampler: Huneycutt & Lachapelle

Date: 29 July

196	Bldg BA-138, Water Plant	0907
197	Bldg BA-103, Mess Hall	0848
198	Campsite #2, Spigot 10(Mainland)	0912 0912
199	Campsite #1, Spigot 2(Beachside)	0840
200	Bldg SBA-142, Spigot at bottom of Pier	0856

WTP: Hadnot Point

Sampler: HUNECUTT & LACHAPELLE

Date: 28 July 1982

201	Bldg20, Water Plant @ Pump	1100
202	Bldg NH-1, Emergency Room Sink	1413
203	Bldg 1202, Men's Room Sink	1347
204	Bldg 65, Quality Control Lab, Room 220 Sink	1425
205	Bldg FC-530, Laundry Room Sink, 1st floor	1358

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000005204

GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

December 9, 1982
82-5600

Commanding General
Marine Corps Base
Camp Lejeune, N.C. 28542

CORRECTED COPY

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

Attention: AC/S Facilities

Subject: Analysis of samples received 12/2/82

Sample Identification:

For sample identification and results, see attached pages.



Bruce A. Babson
Chemist

BAB/cja
Customer #92400
cc: Elizabeth Betz



CLW

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RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
*261	4	2	<5	4	<15
*262	1	1	<5	2	<9
*263	2	2	<5	5	<14
*264	2	2	<5	4	<13
*265	1	2	<5	4	<12
266	3	3	3	<1	9
267	4	2	2	<1	8
268	3	2	3	<1	8
269	3	3	3	<1	9
270	3	3	3	<1	9
271	4	8	18	19	49
272	7	21	48	51	127
273	6	17	40	50	113
274	5	15	34	37	91
275	7	21	48	49	125
276	15	6	2	<1	23
277	17	7	3	<1	27
278	20	9	4	<1	33
279	28	10	5	<1	43
280	20	8	3	<1	31
281	36	12	4	<1	52
282	34	12	4	<1	50
283	37	13	4	<1	54
284	40	13	4	<1	57
285	35	12	4	<1	51

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RESULTS
 (con't)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
286	21	11	5	<1	37
287	21	11	5	<1	37
288	21	11	4	<1	36
289	26	13	5	<1	44
290	45	20	8	<1	73
291	20	5	2	<1	27
292	28	3	1	<1	32
293	32	7	1	<1	40
294	38	5	1	<1	44
295	37	3	<1	<1	40
**296	20	<20	<5	<1	<45
**297	22	<20	<5	<1	<47
**298	29	<20	<5	<1	<54
**299	20	<20	<5	<1	<45
**300	28	<20	<5	<1	<53

*All samples from this site show contamination from Tetrachloroethylene. This compound interferes with the determination of Chlorodibromomethane. The reported value represents a probable maximum on the level of this trihalomethane.

**All samples from this site show contamination from Trichloroethylene and Tetrachloroethylene. These compounds interfere with the determinations for both Bromodichloromethane and Chlorodibromomethane. The reported values represent a probable maximum on the levels of these two trihalomethanes.

NOTE: All results reported in micrograms per liter.
 Analysis completed 12/8/82.

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TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE # SAMPLE LOCATION
WTP: Tarawa Terrace Sampler: *Lachapelle* Date: ²⁹ 11-~~26~~-82 TIME

261	Bldg STT-39A, Water Plant @ 1st Pump	1447 0955
262	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	1000
263	Bldg TT-48, TT Elem School II, Men's Head across Office	1015 1015
264	Bldg TT-2453, TT Exchange gas Station's Ladies Room	1505 1505
265	Bldg TT-35, Sewage Plant's Office Sink	1059 1059

WTP: *NOT COLLECTED* Sampler: Date: Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: *Lachapelle* Date: ²⁹ 11-~~26~~-82

266	Bldg M-178, Water Plant @ Sink faucet	1027 1027
267	Bldg M-625, Steam Plant, Bathroom Sink	1032 1032
268	Bldg ^{M-128} M-128 , ^{SNACK BAR} Branch Clinic, ^{SINK} Men's Head	1038 1038
269	Bldg M-136, Sewage Plant Sink	1043 1043
270	Bldg M-231, BOQ, 1st floor Men's Head	1099 1099

WTP: New River Sampler: *Lachapelle* Date: 11-24-82

271	Bldg AS-110, Water Plant @ Pump	1115
272	Bldg G-520, Career Planner, 2nd floor Men's Room	1150
273	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1202
274	Bldg 710, Officer's Club Gally Sink	1141
275	Bldg 2800, Boat Marina Men's Room	1133

WTP: Holcomb Blvd Sampler: *Lachapelle* Date: 11/26/82

276	Bldg 670, Water Plant @ Pump	0944
277	Bldg 4022, Fire Station, Bathroom Sink	1005
278	Bldg 1915, Golf Course, Men's Locker Room	1015
279	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1034
280	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	1022

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TRICHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE#	SAMPLE LOCATION	TIME
WTP: Rifle Range Sampler: <i>Lachapelle</i> Date: <i>11-29-82</i>		
<i>281</i>	Bldg RR-85, Water Plant @ Finish Tap	<i>1238</i>
<i>282</i>	Bldg RR-6, Fire House Sink	<i>1240</i>
<i>283</i>	Bldg RR-10, Snack Bar Sink	<i>1303</i>
<i>284</i>	Bldg RR-200, Across from Target Shed	<i>1245</i>
<i>285</i>	Bldg RR-92, Sewage Plant Sink	<i>1256</i>
WTP: Courthouse Bay Sampler: <i>LH</i> Date: <i>11-29</i>		
<i>286</i>	Bldg BB-190, Water Plant @ Faucet	<i>1332</i>
<i>287</i>	Bldg BB-7, Mess Hall Sink	<i>1335</i>
<i>288</i>	Bldg BB-54, Service Club	<i>1348</i> <i>1349</i>
<i>289</i>	Bldg SBB-204, Sewage Plant Sink	<i>1338</i>
<i>290</i>	Bldg BB-46, Marina Bathroom Sink	<i>1343</i>
WTP: Onslow Beach Sampler: <i>LH</i> Date: <i>11-29</i>		
<i>291</i>	Bldg BA-138, Water Plant	<i>1400</i>
<i>292</i>	Bldg BA-103, Mess Hall	<i>1426</i>
<i>293</i>	Campsite #2, Spigot 10(Mainland)	<i>1410</i>
<i>294</i>	Campsite #1, Spigot 2(Beachside)	<i>1432</i> <i>1440</i>
<i>295</i>	Bldg SBA-142, Spigot at bottom of Pier	<i>1432</i>
WTP: Hadnot Point Sampler: <i>Lachapelle</i> Date: <i>11-26-82</i>		
<i>296</i>	Bldg20, Water Plant @ Pump	<i>1047</i>
<i>297</i>	Bldg NH-1, Emergency Room Sink	<i>1056</i>
<i>298</i>	Bldg 1202, Men's Room Sink	<i>1109</i>
<i>299</i>	Bldg 65, Quality Control Lab, Room 220 Sink	<i>1138</i>
<i>300</i>	Bldg FC-530, Laundry Room Sink, 1st floor	<i>1122</i>

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GRAINGER LABORATORIES

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ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

March 16, 1983
83-6478

Commanding General
Marine Corps Base
Camp Lejeune, N.C. 28542

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

Attention: AC/S Facilities

Subject: Analyses of Samples Received 3-2-83

Sample Identification: Purchase Order No. M 67001-82-M-5084

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methanes
323	<1	2	6	5	13
324	<1	2	7	7	16
*324	<1	3	7	7	17
325	1	3	9	9	22
326	<1	2	7	7	16
327	1	4	11	13	29
328	1	3	3	<1	7
329	2	3	3	<1	8
331	1	2	2	<1	5
332	1	2	2	<1	5
333	5	7	20	26	58
334	6	18	49	58	131
335	7	14	39	48	108
336	5	15	39	49	108
337	5	13	37	47	102



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RESULTS
 (Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methanes
338	21	5	2	<1	28
339	23	5	1	<1	29
340	24	8	4	<1	36
341	24	5	1	<1	30
342	26	7	3	<1	36
343	30	10	3	<1	43
*343	30	10	3	<1	43
344	32	11	3	<1	46
345	33	11	3	<1	47
346	42	14	4	<1	60
347	35	12	4	<1	51
348	25	10	4	<1	39
349	22	10	4	<1	36
350	23	10	4	<1	37
351	26	11	4	<1	41
352	31	13	5	<1	49
*352	31	13	5	<1	49
353	32	9	3	<1	44
358	17	**20	3	<1	***40
359	35	**20	6	<1	***61
360	18	**20	3	<1	***41

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RESULTS
(Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methanes
361	18	**20	3	<1	***41
362	18	**20	3	<1	***41

NOTE: All results reported in micrograms per liter.
Analysis completed 3/11/83.

*Analyzed in Duplicate.

**Reported value represents a probable upper limit on the Bromodichloromethane concentration. In this sample set Trichloroethylene interferes with the Bromodichloromethane determination.

***Reported value represents a probable upper limit on the Total Trihalomethane concentration.

Bruce A. Babson
Bruce A. Babson
Chemist

BAB/dd
Customer #92400
cc: Elizabeth Betz

CLW
000005212

TRIHALOMETHANE SAMPLING

MONTH: FEBRUARY
YEAR: 1983
TIME

SAMPLE #	SAMPLE LOCATION	Sampler:	Date:	TIME
WTP: Tarawa Terrace				
		Lunenburg	2/24/83	
323	Bldg STT-39A, Water Plant @ 1st Pump			1428
324	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink			1432
325	Bldg TT-48, TT Elem School II, Men's Head across Office			1429
326	Bldg TT-2453, TT Exchange gas Station's Ladies Room			1421
327	Bldg TT-35, Sewage Plant's Office Sink			1416
WTP: Montford Point				
		Lunenburg	2/20/83	
No SAMPLE Bldg E-23, Sewage Lift Station, Knox Trailer Park				
328	Bldg M-178, Water Plant @ Sink faucet			1338
329	Bldg M-625, Steam Plant, Bathroom Sink			1358
330	Bldg M-128, Branch Clinic, Men's Head	closed		
331	Bldg M-136, Sewage Plant Sink			1353
332	Bldg M-231, BOQ, 1st floor Men's Head			1347
WTP: New River				
			25 Feb 83	
333	Bldg AS-110, Water Plant @ Pump		25 Feb 83	1245
334	Bldg G-520, Career Planner, 2nd floor Men's Room			1332
335	Bldg AS-4025, Barracks Rec Room, Bathroom Sink			1257
336	Bldg 710, Officer's Club Gally Sink			1320
337	Bldg 2800, Boat Marina Men's Room			1310
WTP: Holcomb Blvd				
			2-25-83	
338	Bldg 670, Water Plant @ Pump			1356
339	Bldg 4022, Fire Station, Bathroom Sink			1431
340	Bldg 1915, Golf Course, Men's Locker Room			1402
341	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom			1421
342	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink			1410

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TRIHALOMETHANE SAMPLING

MONTH: FEBRUARY
YEAR: 1983

SAMPLE #/ WTP: Rifle Range SAMPLE LOCATION Sampler: Date: TIME

343	Bldg RR-85, Water Plant @ Finish Tap		25 Feb 83	1141
344	Bldg RR-6, Fire House Sink			1144
345	Bldg RR-10, Snack Bar Sink			1200
346	Bldg RR-200, Across from Target Shed			1153
347	Bldg RR-92, Sewage Plant Sink			1149

WTP: Courthouse Bay Sampler: *Hansen* Date: 2/25/83

348	Bldg BB-190, Water Plant @ Faucet			0852
349	Bldg BB-7, Mess Hall Sink			0847
350	Bldg BB-54, Service Club			0856
351	Bldg SBB-204, Sewage Plant Sink			0834
352	Bldg BB-46, Marina Bathroom Sink			0841

WTP: Onslow Beach Sampler: *Hansen* Date: 2/25/83

353	Bldg BA-138, Water Plant			0908
354	Bldg BA-103, Mess Hall	<i>Closed / Sewage Plant</i>		1018
355	Campsite #2, Spigot 10 (Mainland)	<i>Water Cut off</i>		
356	Campsite #1, Spigot 2 (Beachside)	<i>Water Cut off</i>	<i>BB 197 Carotakers office</i>	0958
357	Bldg SBA-142, Spigot at bottom of Pier	<i>Water Cut off</i>	<i>BA-130 Motor 71026</i>	

WTP: Hadnot Point Sampler: Date: 2-25-83

358	Bldg 20, Water Plant @ Pump			1505
359	Bldg NH-1, Emergency Room Sink			1515
360	Bldg 1202, Men's Room Sink			1445
361	Bldg 65, Quality Control Lab, Room 220 Sink			1530
362	Bldg FC-530, Laundry Room Sink, 1st floor			1453

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000005214

GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

June 15, 1983
83-7405

Commanding General
Marine Corps Base
Camp Lejeune, N.C. 28542

Attention: AC/S Facilities

Subject: Analyses of Samples Received 5/31/83

Sample Identification: Purchase Order No. M67001-83-M-0181

37 Samples for Trihalomethane Analysis Identified as in "Results" Section.

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA

RESULTS

<u>Sample</u>	<u>Chloroform</u>	<u>Bromodichloro- methane</u>	<u>Chlorodibromo- methane</u>	<u>Bromoform</u>	<u>Total Trihalo- methane</u>
363	<1	2	4	6	12
364	<1	1	3	5	9
365	<1	1	4	5	10
366	<1	1	3	4	8
367	<1	1	3	5	9
368	1	3	3	<1	7
369	1	2	2	<1	5
370	2	4	3	2	11
371	2	3	3	1	9
372	1	3	3	<1	7
373	2	6	15	25	48
374	NO SAMPLE SUBMITTED.				
375	2	7	23	52	84
376	3	10	30	66	109
377	7	19	47	66	139



CLW

000005215

RESULTS
 (Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
378	10	6	3	<1	19
379	14	8	5	1	28
380	16	9	5	1	31
381	15	9	5	1	30
382	15	9	5	1	30
383	34	12	4	<1	50
384	37	13	4	<1	54
385	35	14	4	<1	53
386	46	17	5	<1	68
387	38	14	4	<1	56
388	16	9	4	<1	29
389	34	16	7	<1	57
390	17	9	4	<1	30
391	17	10	5	<1	32
392	21	12	6	<1	39
393	23	7	2	<1	32
394	NO SAMPLE SUBMITTED				
395	27	8	1	<1	36
396	42	12	2	<1	56
397	26	2	<1	<1	28

CLW
 000005216

RESULTS
(Continued)

<u>Sample</u>	<u>Chloroform</u>	<u>Bromodichloro- methane</u>	<u>Chlorodibromo- methane</u>	<u>Bromoform</u>	<u>Total Trihalo- methane</u>
398	19	15*	4	<1	38**
399	NO SAMPLE SUBMITTED				
400	24	15*	4	<1	43**
401	20	15*	4	<1	39**
402	22	15*	4	<1	41**

* Represents a probable upper limit on the Bromodichloromethane results. There is interference in this sample set.

** Represents a probable upper limit on the total Trihalomethane result.

NOTE: All results reported in micrograms per liter.
Analysis completed 6/10/83.



Bruce A. Babson
Laboratory Supervisor

BAB/ab
Customer #92400
cc: Elizabeth Betz

CLW
000005217

TRIHALOMETHANE SAMPLING

MONTH: MAY
YEAR: 1983

SAMPLE # SAMPLE LOCATION

WTP: Tarawa Terrace Sampler: *CLW*

Date: 27 May 1983

TIME

363	Bldg STT-39A, Water Plant @ 1st Pump	1402
364	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	1406
365	Bldg TT-48, TT Elem School II, Men's Head across Office	1344
366	Bldg TT-2453, TT Exchange gas Station's Ladies Room	1350
367	Bldg TT-35, Sewage Plant's Office Sink	1347

WTP: Sampler: Date:

Not Collect Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: Date:

368	Bldg M-178, Water Plant @ Sink faucet	1310
369	Bldg M-625, Steam Plant, Bathroom Sink	1329
370	Bldg M-128, Branch Clinic, Men's Head <i>(If close to next door)</i>	1314
371	Bldg M-136, Sewage Plant Sink	1320
372	Bldg M-231, BOQ, 1st floor Men's Head	1319

WTP: New River Sampler: Date:

373	Bldg AS-110, Water Plant @ Pump	1144
374	Bldg G-520, Career Planner, 2nd floor Men's Room	<i>locked</i>
375	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1154
376	Bldg 710, Officer's Club Gally Sink	1212
377	Bldg 2800, Boat Marina Men's Room	1204

WTP: Holcomb Blvd Sampler: Date:

378	Bldg 670, Water Plant @ Pump	1418
379	Bldg 4022, Fire Station, Bathroom Sink	1412
380	Bldg 1915, Golf Course, Men's Locker Room	1432
381	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1403
382	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	1439

CLW

000005218

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #/	SAMPLE LOCATION	Date:	TIME
WTP: Rifle Range	Sampler:		
383	Bldg RR-85, Water Plant @ Finish Tap		1054
384	Bldg RR-6, Fire House Sink		1057
385	Bldg RR-10, Snack Bar Sink		1117
386	Bldg RR-200, Across from Target Shed		1141
387	Bldg RR-92, Sewage Plant Sink		1103
WTP: Courthouse Bay	Sampler:	Date:	
388	Bldg BB-190, Water Plant @ Faucet		1032
389	Bldg BB-7, Mess Hall Sink		025
390	Bldg BB-54, Service Club		1030
391	Bldg SBB-204, Sewage Plant Sink		019
392	Bldg BB-46, Marina Bathroom Sink		1013
WTP: Onslow Beach	Sampler: 44f	Date: 5/27/83	
393	Bldg BA-138, Water Plant		0452
394	Bldg BA-103, Mess Hall		closed for renovation
395	Campsite #2, Spigot 10(Mainland)		07
396	Campsite #1, Spigot 2(Beachside)		0925
397	Bldg SBA-142, Spigot at bottom of Pier		0940
WTP: Hadnot Point	Sampler:	Date:	
398	Bldg20, Water Plant @ Pump		1456
399	Bldg NH-1, Emergency Room Sink		period
400	Bldg 1202, Men's Room Sink		1505
401	Bldg 65, Quality Control Lab, Room 220 Sink		1514
402	Bldg FC-530, Laundry Room Sink, 1st floor		1458

CLW

000005219

GRAINGER LABORATORIES CLW

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

000005220

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
 Construction Materials
 Identification of Unknowns
 Agriculture
 Fuels
 Textiles
 Chemicals
 Hazardous Waste

September 16, 1983
 83-8370

Quality Control Lab, NREAD
 Facilities, MCB
 Camp Lejeune, NC 28542

CONSULTATION

Metallurgical Services
 Pollution Abatement
 Process Development
 Quality Control
 Methods Development
 Special Investigation
 Pesticides
 RCRA

Attention: Commanding General

Subject: Analyses of Samples Received 8/29/83

Purchase Order: M93170-3136-1481

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
403*	1	3	4	3	11
404*	2	6	8	6	22
405*	1	2	3	5	11
406*	1	3	4	4	12
407*	1	2	3	4	10
408	2	3	3	<1	8
409	1	<1	<1	<1	1
410	3	3	4	<1	10
411	3	3	3	<1	9
412	2	3	3	<1	8
413	4	9	22	27	62
414	5	15	42	63	125
415	5	15	44	69	133
416	4	12	26	51	93
417	4	14	41	70	129
418	12	7	3	<1	22
419	15	9	5	<1	29
420	16	9	5	<1	30
421	16	9	5	<1	30
422	17	10	5	<1	32



RESULTS
 (Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
423	29	9	3	<1	41
424	33	11	3	<1	47
425	33	11	3	<1	47
426	40	13	4	<1	57
427	36	12	4	<1	52
428	16	9	5	<1	30
429	17	9	5	<1	31
430	15	8	4	<1	27
431	16	9	5	<1	30
432	29	15	8	<1	52
433	12	2	<1	<1	14
435	40	5	2	<1	47
436	41	10	2	<1	53
437	20	<1	<1	<1	20
438**	21	<15	2	<1	<38
439**	27	<15	2	<1	<44
440**	22	<15	2	<1	<39
441**	22	<15	2	<1	<39
442**	23	<15	3	<1	<41

* All samples from this site exhibit contamination from Tetrachloroethylene.

** All samples from this site exhibit contamination from both Trichloroethylene and Tetrachloroethylene. The reported values for Bromodichloromethane and Total Trihalomethane are probable upper limits on the concentrations for these parameters.

NOTE: All results reported in micrograms per liter.
 Analysis completed 9/8/83.

Bruce A. Babson

Bruce A. Babson
 Laboratory Supervisor

BAB/at
 cc: Elizabeth Betz

CLW

000005221

TRIHALOMETHANE SAMPLING

MONTH:

YEAR:

SAMPLE # SAMPLE LOCATION Sampler: Date: TIME

WTP: Tarawa Terrace Sampler: H: L Date: 8/26/83

403	Bldg STT-39A, Water Plant @ 1st Pump	0844
404	Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink	0836
405	Bldg TT-48, TT Elem School II, Men's Head across Office	0900
406	Bldg TT-2453, TT Exchange gas Station's Ladies Room	0847
407	Bldg TT-35, Sewage Plant's Office Sink	0854

WTP: Sampler: Date:

Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: H: L Date: 8/26/83

408	Bldg M-178, Water Plant @ Sink faucet	0917
409	Bldg M-625, Steam Plant, Bathroom Sink	0909
410	Bldg M-128, Branch Clinic, Men's Head	0931
411	Bldg M-136, Sewage Plant Sink	0926
412	Bldg M-231, BOQ, 1st floor Men's Head	0921

WTP: New River Sampler: L Date: 8-26-83

413	Bldg AS-110, Water Plant @ Pump	1303
414	Bldg 6-520, Career Planner, 2nd floor Men's Room	1254
415	Bldg AS-4025, Barracks Rec Room, Bathroom Sink	1317
416	Bldg 710, Officer's Club Gally Sink	1340
417	Bldg 2800, Boat Marina Men's Room	1330

WTP: Holcomb Blvd Sampler: L Date: 8-26-83

418	Bldg 670, Water Plant @ Pump	1412
419	Bldg 4022, Fire Station, Bathroom Sink	1405
420	Bldg 1915, Golf Course, Men's Locker Room	1429
421	Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom	1421
422	Bldg 2615, PP Officer's Club, Gally Dishwashing Sink	1437

CLW

000005222

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #/ WTP: Rifle Range Sampler: L+H Date: 8-26-83 TIME

423	Bldg RR-85, Water Plant @ Finish Tap	1452
424	Bldg RR-6, Fire House Sink	1457
425	Bldg RR-10, Snack Bar Sink	1451
426	Bldg RR-200, Across from Target Shed	1453
427	Bldg RR-92, Sewage Plant Sink	1441

WTP: Courthouse Bay Sampler: L+H Date: 9-25-83

428	Bldg BB-190, Water Plant @ Faucet	1340
429	Bldg BB-7, Mess Hall Sink	351
430	Bldg BB-54, Service Club	1405
431	Bldg SBB-204, Sewage Plant Sink	1357
432	Bldg BB-46, Marina Bathroom Sink	1346

WTP: Onslow Beach Sampler: L+H Date: 9-25-83

433	Bldg BA-138, Water Plant	1100
434	Bldg BA-103, Mess Hall	
435	Campsite #2, Spigot 10 (Mainland)	1100
436	Campsite #1, Spigot 2 (Beachside)	1106
437	Bldg SBA-142, Spigot at bottom of Pier	1121

WTP: Hadnot Point Sampler: L Date: 8-26-83

438	Bldg 20, Water Plant @ Pump	1450
439	Bldg NH-1, Emergency Room Sink	1450
440	Bldg 1202, Men's Room Sink	1559
441	Bldg 65, Quality Control Lab, Room 220 Sink	1520
442	Bldg FC-530, Laundry Room Sink, 1st floor	1515

CLW

000005223



January 18, 1984
84-9479

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 1/3/84

Sample Identification: Purchase Order M67001-83-M5089

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

1. 443, NR, 1255, 12-29-83
2. 444, NR, 1354, 12-29-83
3. 445, NR, 1304, 12-29-83
4. 446, NR, 1323, 12-29-83
5. 447, NR, 1313, 12-29-83
6. 448, HP, 0830, 12-30-83
7. 449, HP, 0910, 12-30-83
8. 450, HP, 0935, 12-30-83
9. 451, HP, 1010, 12-30-83
10. 452, HP, 0925, 12-30-83

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
1	2	5	14	34	55
2	3	7	20	47	77
3	4	10	31	67	112
4	9	12	34	70	125
5	4	11	38	78	131



CLW

000005224

RESULTS
(Continued)

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
6	30*	8	4	<1	42**
7	30*	9	4	<1	43**
8	30*	10	4	<1	44**
9	30*	8	4	<1	42**
10	30*	10	4	<1	44**

NOTE: All results reported in micrograms per liter.
Analysis completed 1/12/84.

- * Represents a probable upper limit on the chloroform concentration. These is an interferent in this sample set.
- ** Represents a probable upper limit on the total trihalomethane content.



Bruce A. Babson
Staff Chemist

BAB/at
Customer #92400

CLW
0000005225

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE # SAMPLE LOCATION
WTP: Tarawa Terrace Sampler: Date: TIME

Bldg STT-39A, Water Plant @ 1st Pump

Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink

Bldg TT-48, TT Elem School II, Men's Head across Office

Bldg TT-2453, TT Exchange gas Station's Ladies Room

Bldg TT-35, Sewage Plant's Office Sink

WTP: Sampler: Date:

Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: Date:

Bldg M-178, Water Plant @ Sink faucet

Bldg M-625, Steam Plant, Bathroom Sink

Bldg M-128, Branch Clinic, Men's Head

Bldg M-136, Sewage Plant Sink

Bldg M-231, BOQ, 1st floor Men's Head

WTP: New River Sampler: L + L Date: 12 20 83

443 A+B Bldg AS-110, Water Plant @ Pump

444 Bldg E-520, Career Planner, 2nd floor Men's Room

445 Bldg AS-4025, Barracks Rec Room, Bathroom Sink

446 Bldg 710, Officer's Club Gally Sink

447 Bldg 2800, Boat Marina Men's Room

WTP: Holcomb Blvd Sampler: Date:

Bldg 670, Water Plant @ Pump

Bldg 4022, Fire Station, Bathroom Sink

Bldg 1915, Golf Course, Men's Locker Room

Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom

Bldg 2615, PP Officer's Club, Gally Dishwashing Sink

CLW

000005226

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE## SAMPLE LOCATION
WTP: Rifle Range Sampler: Date: TIME

Bldg RR-85, Water Plant @ Finish Tap

Bldg RR-6, Fire House Sink

Bldg RR-10, Snack Bar Sink

Bldg RR-200, Across from Target Shed

Bldg RR-92, Sewage Plant Sink

WTP: Courthouse Bay Sampler: Date:

Bldg BB-190, Water Plant @ Faucet

Bldg BB-7, Mess Hall Sink

Bldg BB-54, Service Club

Bldg SBB-204, Sewage Plant Sink

Bldg BB-46, Marina Bathroom Sink

WTP: Onslow Beach Sampler: Date:

Bldg BA-138, Water Plant

Bldg BA-103, Mess Hall

Campsite #2, Spigot 10(Mainland)

Campsite #1, Spigot 2(Beachside)

Bldg SBA-142, Spigot at bottom of Pier

WTP: Hadnot Point Sampler: *H* Date: *12/30/83*

448 Bldg20, Water Plant @ Pump *0830*

449 Bldg NH-1, Emergency Room Sink *0910*

450 Bldg 1202, Men's Room Sink *0935*

451 Bldg 65, Quality Control Lab, Room 220 Sink *1010*

452 Bldg FC-530, Laundry Room Sink, 1st floor *0925*

CLW

000005227



April 9, 1984
84-10434

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

Subject: Analyses of Samples Received 4/2/84

Sample Identification: Purchase Order M67001-83-M-5089

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

1. #453
2. #454
3. #455
4. #456
5. #457
6. #458

RESULTS

Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
1	5	8	19	49	81
2	6	14	35	83	138
3	7	14	38	86	145
4	5	11	31	81	128
5	5	11	32	93	141
6	25*	9	5	<1	39*

NOTE: All results reported in micrograms per liter.
Analysis completed 4/5/84.

* Represents a probable upper limit on the concentration. There is interference in this sample on the chloroform determination.

**Analytical
Laboratory**

Environment Analysis
Materials
Identification of Unknowns
Agricultural Products
Fuels
Textiles
Hazardous Waste
GC/MS
ICP Metals
Priority Pollutants

Consultation

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA

Bruce A. Babson
Staff Chemist

BAB/at
Customer #92400

CLW

000005228



TRICHALOMETHANE SAMPLING

MONTH:

YEAR:

TIME

SAMPLE # SAMPLE LOCATION

WTP: Tarawa Terrace Sampler: Date:

Bldg STT-39A, Water Plant @ 1st Pump

Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink

Bldg TT-48, TT Elem School II, Men's Head across Office

Bldg TT-2453, TT Exchange gas Station's Ladies Room

Bldg TT-35, Sewage Plant's Office Sink

WTP: Sampler: Date:

Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: Date:

Bldg M-178, Water Plant @ Sink faucet

Bldg M-625, Steam Plant, Bathroom Sink

Bldg M-128, Branch Clinic, Men's Head

Bldg M-136, Sewage Plant Sink

Bldg M-231, BOQ, 1st floor Men's Head

WTP: New River Sampler: *Spencer* Date: *3/27/84*

453 Bldg AS-110, Water Plant @ Pump *0952*

454 Bldg 6-520, Career Planner, 2nd floor Men's Room *1053*

455 Bldg AS-4025, Barracks Rec Room, Bathroom Sink *1018*

456 Bldg 710, Officer's Club Gally Sink *1037*

457 Bldg 2800, Boat Marina Men's Room *1029*

WTP: Holcomb Blvd Sampler: Date:

Bldg 670, Water Plant @ Pump

Bldg 4022, Fire Station, Bathroom Sink

Bldg 1915, Golf Course, Men's Locker Room

Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom

Bldg 2615, PP Officer's Club, Gally Dishwashing Sink

CLW

000005229

TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #/ SAMPLE LOCATION TIME
WTP: Rifle Range Sampler: Date:

Bldg RR-85, Water Plant @ Finish Tap

Bldg RR-6, Fire House Sink

Bldg RR-10, Snack Bar Sink

Bldg RR-200, Across from Target Shed

Bldg RR-92, Sewage Plant Sink

WTP: Courthouse Bay Sampler: Date:

Bldg BB-190, Water Plant @ Faucet

Bldg BB-7, Mess Hall Sink

Bldg BB-54, Service Club

Bldg SBB-204, Sewage Plant Sink

Bldg BB-46, Marina Bathroom Sink

WTP: Onslow Beach Sampler: Date:

Bldg BA-138, Water Plant

Bldg BA-103, Mess Hall

Campsite #2, Spigot 10(Mainland)

Campsite #1, Spigot 2(Beachside)

Bldg SBA-142, Spigot at bottom of Pier

WTP: Hadnot Point Sampler: *Fachyelle* Date: *3-26-84*

Bldg20, Water Plant @ Pump

Bldg NH-1, Emergency Room Sink

Bldg 1202, Men's Room Sink

Bldg 65, Quality Control Lab, Room 220 Sink

458 Bldg FC-530, Laundry Room Sink, 1st floor

1339

CLW

000005230



July 10, 1984
84-11366

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

Quality Control Lab, NREAD
Building 1103
Camp Lejeune, NC 28542

Attention: Ms. Elizabeth Betz

AMENDED
(7/17/84)

Subject: Analyses of Samples Received 7/6/84

Sample Identification: Purchase Order No. M67001-83-M-5089

1. Sample #459A & 459B
2. Sample #460A & 460B
3. Sample #461A & 461B
4. Sample #462A & 462B
5. Sample #463A & 463B
6. Sample #464A & 464B

RESULTS

	<u>Sample</u>	<u>Chloroform</u>	<u>Bromodichloro- methane</u>	<u>Chlorodibromo- methane</u>	<u>Bromoform</u>	<u>Total Trihalo- methane</u>
Analytical Laboratory Environment Analysis Materials Identification of Unknowns Agricultural Products Fuels Textiles Hazardous Waste GC/MS ICP Metals Priority Pollutants Consultation Metallurgical Services Pollution Abatement Process Development Quality Control Methods Development Special Investigation	1	8	9	27	37	81
	2	8	17	56	78	159
	3	9	18	53	57	137
	4	8	15	48	59	140
	5	10	26	68	54	158
	6	30*	11	4	<1	45**

*Represents a probable upper limit on the chloroform concentration.
There is an interferent in this sample which prohibits the
quantitation of chloroform.

**Represents a probable upper limit on the total trihalomethane
concentration.

NOTE: All results reported in micrograms per liter;
Analysis completed 7/10/84.

For Bruce Babson

By Edgar Folk

Bruce A. Babson
Staff Chemist

CLW

000005231

BAB:ss
Customer #92400



TRICHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE # SAMPLE LOCATION TIME

WTP: Tarawa Terrace Sampler: Date:

Bldg STT-39A, Water Plant @ 1st Pump

Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink

Bldg TT-48, TT Elem School II, Men's Head across Office

Bldg TT-2453, TT Exchange gas Station's Ladies Room

Bldg TT-35, Sewage Plant's Office Sink

WTP: Sampler: Date:

Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point Sampler: Date:

Bldg M-178, Water Plant @ Sink faucet

Bldg M-625, Steam Plant, Bathroom Sink

Bldg M-128, Branch Clinic, Men's Head

Bldg M-136, Sewage Plant Sink

Bldg M-231, BOQ, 1st floor Men's Head

WTP: New River Sampler: Date:

459 Bldg AS-110, Water Plant @ Pump 6/27/84 1240

460 Bldg G-520, Career Planner, 2nd floor Men's Room 6/27/84 1231

461 Bldg AS-4025, Barracks Rec Room, Bathroom Sink 6/27/84 1250

462 Bldg 710, Officer's Club Gally Sink 6/27/84 1211

463 Bldg 2800, Boat Marina Men's Room 6/27/84 1201

WTP: Holcomb Blvd Sampler: Date:

Bldg 670, Water Plant @ Pump

Bldg 4022, Fire Station, Bathroom Sink

Bldg 1915, Golf Course, Men's Locker Room

Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom

Bldg 2615, PP Officer's Club, Gally Dishwashing Sink

CLW

000005232

TRICHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #	SAMPLE LOCATION	Date:	TIME
WTP: Rifle Range	Sampler:		
	Bldg RR-85, Water Plant @ Finish Tap		
	Bldg RR-6, Fire House Sink		
	Bldg RR-10, Snack Bar Sink		
	Bldg RR-200, Across from Target Shed		
	Bldg RR-92, Sewage Plant Sink		
WTP: Courthouse Bay	Sampler:	Date:	
	Bldg BB-190, Water Plant @ Faucet		
	Bldg BB-7, Mess Hall Sink		
	Bldg BB-54, Service Club		
	Bldg SBB-204, Sewage Plant Sink		
	Bldg BB-46, Marina Bathroom Sink		
WTP: Onslow Beach	Sampler:	Date:	
	Bldg BA-138, Water Plant		
	Bldg BA-103, Mess Hall		
	Campsite #2, Spigot 10 (Mainland)		
	Campsite #1, Spigot 2 (Beachside)		
	Bldg SBA-142, Spigot at bottom of Pier		
WTP: Hadnot Point	Sampler:	Date:	
	Bldg 20, Water Plant @ Pump		
	Bldg NH-1, Emergency Room Sink		
	Bldg 1202, Men's Room Sink		
	Bldg 65, Quality Control Lab, Room 220 Sink		
464	Bldg FC-530, Laundry Room Sink, 1st floor	6/27/84	1438

CLW

000005233



October 3, 1984
84-12017

**Grainger
Laboratories
Incorporated**

Analytical and
Consulting Chemists

Quality Control Lab, NREAD
Facilities, MCB
Camp Lejeune, NC 28542

Attention: Commanding General

Subject: Analysis of Samples Received 9-28-84

Sample Identification: Purchase Order No. M67001-83M-5089

5500 Commercial Avenue
Raleigh, NC 27612
(919) 787-3061

1040 Greenfield Street
Wilmington, NC 28402
(919) 763-9793

1. #465, NR, 1023, 9-21-84
2. #466, NR, 0952, 9-21-84
3. #467, NR, 1030, 9-21-84
4. #468, NR, 1059, 9-21-84
5. #469, NR, 1044, 9-21-84
6. #470, HP, 1430, 9-21-84

RESULTS

	Sample	Chloroform	Bromodichloro- methane	Chlorodibromo- methane	Bromoform	Total Trihalo- methane
Analytical Laboratory	1	3	7	22	50	82
Environment Analysis	2	3	9	37	105	154
Materials	3	3	9	35	79	126
Identification of Unknowns	4	3	10	41	100	154
Agricultural Products	5	2	9	39	136	186
Fuels	*5	2	9	39	136	186
Textiles	6	17	9	4	<1	30
Hazardous Waste						
GC/MS						
ICP Metals						
Priority Pollutants						
Consultation						

*Represents duplicate analysis

NOTE: All results reported in micrograms per liter.
Analysis completed 10-2-84.

Edgar E. Folk
Staff Chemist

CLW

000005234

EEF:sb
cc: Ms. Elizabeth Betz

**Analytical
Laboratory**

- Environment Analysis
- Materials
- Identification of Unknowns
- Agricultural Products
- Fuels
- Textiles
- Hazardous Waste
- GC/MS
- ICP Metals
- Priority Pollutants

Consultation

- Metallurgical Services
- Pollution Abatement
- Process Development
- Quality Control
- Methods Development
- Special Investigation

Certifications

SDWA
NPDES
USDA
USEPA



TRICHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE # SAMPLE LOCATION

WTP: Tarawa Terrace Sampler:

Date:

TIME

Bldg STT-39A, Water Plant @ 1st Pump

Bldg TT-60, TT Elem School I, Main Hall Men's Head Sink

Bldg TT-48, TT Elem School II, Men's Head across Office

Bldg TT-2453, TT Exchange gas Station's Ladies Room

Bldg TT-35, Sewage Plant's Office Sink

WTP:

Sampler:

Date:

Bldg E-23, Sewage Lift Station, Knox Trailer Park

WTP: Montford Point

Sampler:

Date:

Bldg M-178, Water Plant @ Sink faucet

Bldg M-625, Steam Plant, Bathroom Sink

Bldg M-128, Branch Clinic, Men's Head

Bldg M-136, Sewage Plant Sink

Bldg M-231, BOQ, 1st floor Men's Head

WTP: New River

Sampler: *H: B*

Date: *9/21/84*

465

Bldg AS-110, Water Plant @ Pump

1023

466

Bldg C-520, Career Planner, 2nd floor Men's Room

0952

467

Bldg AS-4025, Barracks Rec Room, Bathroom Sink

1030

468

Bldg 710, Officer's Club Gally Sink

1059

469

Bldg 2800, Boat Marina Men's Room

1044

WTP: Holcomb Blvd

Sampler:

Date:

Bldg 670, Water Plant @ Pump

Bldg 4022, Fire Station, Bathroom Sink

Bldg 1915, Golf Course, Men's Locker Room

Bldg 5400, Berkeley Manor Elem School, Main Hall Bathroom

Bldg 2615, PP Officer's Club, Gally Dishwashing Sink

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TRIHALOMETHANE SAMPLING

MONTH:
YEAR:

SAMPLE #/ SAMPLE LOCATION
WTP: Rifle Range Sampler: Date: TIME

Bldg RR-85, Water Plant @ Finish Tap

Bldg RR-6, Fire House Sink

Bldg RR-10, Snack Bar Sink

Bldg RR-200, Across from Target Shed

Bldg RR-92, Sewage Plant Sink

WTP: Courthouse Bay Sampler: Date:

Bldg BB-190, Water Plant @ Faucet

Bldg BB-7, Mess Hall Sink

Bldg BB-54, Service Club

Bldg SBB-204, Sewage Plant Sink

Bldg BB-46, Marina Bathroom Sink

WTP: Onslow Beach Sampler: Date:

Bldg BA-138, Water Plant

Bldg BA-103, Mess Hall

Campsite #2, Spigot 10(Mainland)

Campsite #1, Spigot 2(Beachside)

Bldg SBA-142, Spigot at bottom of Pier

WTP: Hadnot Point Sampler: H:B Date: 9/21/84

Bldg20, Water Plant @ Pump

Bldg NH-1, Emergency Room Sink

Bldg 1202, Men's Room Sink

Bldg 65, Quality Control Lab, Room 220 Sink

470 Bldg FC-530, Laundry Room Sink, 1st floor 1430

CLW

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