

Date: 3 November 1982

Memorandum for the Record

From: Ms. Betz, Quality Control Lab, Environmental Br, NREAD, Facilities

Subj: Water Plant ID Numbers

1

1. During the phone conversation with Don Beesley, of the State, in August 1982, the question of Plant ID numbers came up. Mr. Beesley stated that on all reports the ID numbers would have to be listed to make it easier to key the information on the computer. I said we didn't have any. He said we had to have them and Fred Hill should know them.

2. Contact was made with Fred Hill, who came 1 September 1982, to assign the base water plants ID numbers. Fred Hill spent the morning with Mr. Price and Mack Frazelle at the Hadnot Point water plant talking it over.

3. That afternoon, Fred Hill came by the lab and showed me what was decided. He stated that since there were connections between Hadnot Point and Holcomb Blvd and between Tarawa Terrace and Camp Johnson they would combine the plants. With the old population statistics, Mr. Price had provided, the required # of samples were assigned. Below shows what was determined and the effect of the possible combining.

Plant	Serial Number	Population	Required #/Month
Hadnot Point	04-67-040	27,000	30
Holcomb Blvd		8,000	9
New River	04-67-041	11,000	13
Tarawa Terrace	04-67-042	5,700	6
Camp Johnson		2,000	2
Rifle Range	04-67-043	1,100	2
Courthouse Bay	04-67-044	1,800	2
Onslow Beach	04-67-045	900	1

Total Required #(Combined) 67
(REGULAR) 65

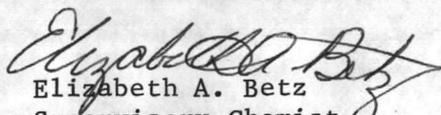
4. It was stated that the understanding on base is that the connections between plants was only open when one of the plants was out of service. Fred Hill said that the serial numbers assigned above and the combining was not definite and to wait until the letter from the State was received.

5. Fred Hill also asked that copies of the Lab's weekly Chemical Analysis forms

be sent with the monthly bacteria report. He said no explanation for unusual readings would need to be made.

6. When the letter of 25 October 1982 was received it showed none of the plants had been combined. The serial numbers are listed below.

Plant	Serial #	Require #/Month
Hadnot Point	04-67-041	30
New River	04-67-042	13
Holcomb Blvd	04-67-043	9
Tarawa Terrace	04-67-044	6
Camp Johnson	04-67-045	2
Rifle Range	04-67-046q	22
Courthouse Bay	04-67-047	2
Onslow Beach	04-67-048	1


Elizabeth A. Betz
Supervisory Chemist

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Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 25, 1982

Commanding General
USMC Camp Lejeune
Camp Lejeune, North Carolina 28542

ATTN: R. F. Calta, Lieutenant Colonel
USMC Base Maintenance Officer

Sir:

To conform the potable water treatment facilities of USMC Camp Lejeune to the provisions of the North Carolina Safe Drinking Water Act, the following public water supply I.D. numbers have been assigned.

04-67-041	USMC Hadnot Point
04-67-042	USMC New River Air Station
04-67-043	USMC Holcomb Boulevard
04-67-044	USMC Tarawa Terrace
04-67-045	USMC Camp Johnson
04-67-046	USMC Rifle Range
04-67-047	USMC Courthouse Bay
04-67-048	USMC Onslow Beach

These I.D. numbers should be shown on all reports of chemical analysis and operations from the respective treatment facilities and microbiological analyses from representative points within the respective distribution system.

These should be reported to Mr. John McFadyen in this office monthly.

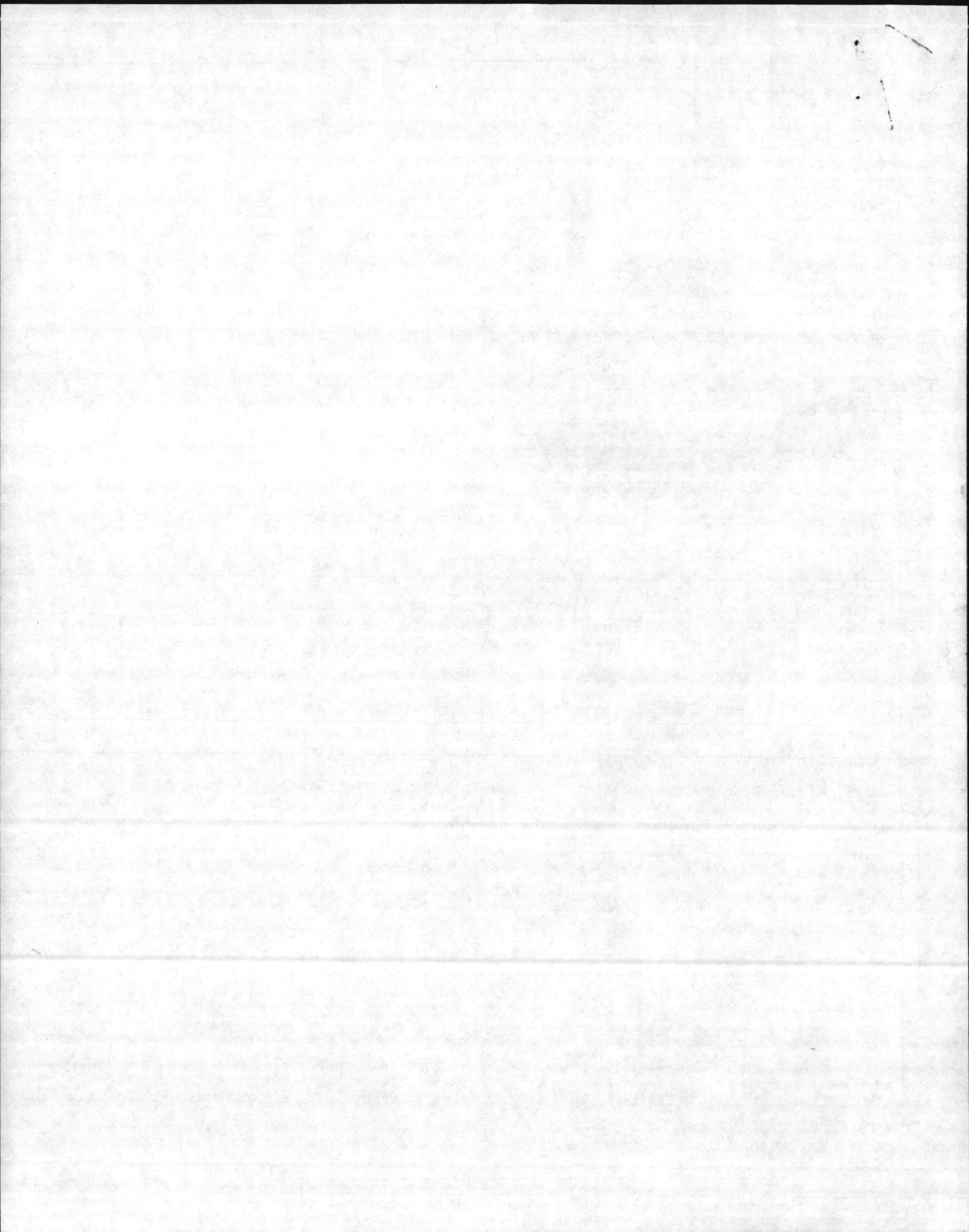
Thank you for your continued cooperation.

Very truly yours,

Charles E. Rundgren, Head
Water Supply Branch
Environmental Health Section

CER:chf

cc: Mr. M. P. Bell



Betsy - For your info

NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS BRANCH
BASE MAINTENANCE DIVISION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

8-27-82

Date

From: Director

To: B M O

C

Subj:

1. Planned visit to Camp Lejeune by State Potable Water Representative. Fred is located in the Greenville Regional Office and has been to Camp Lejeune before.

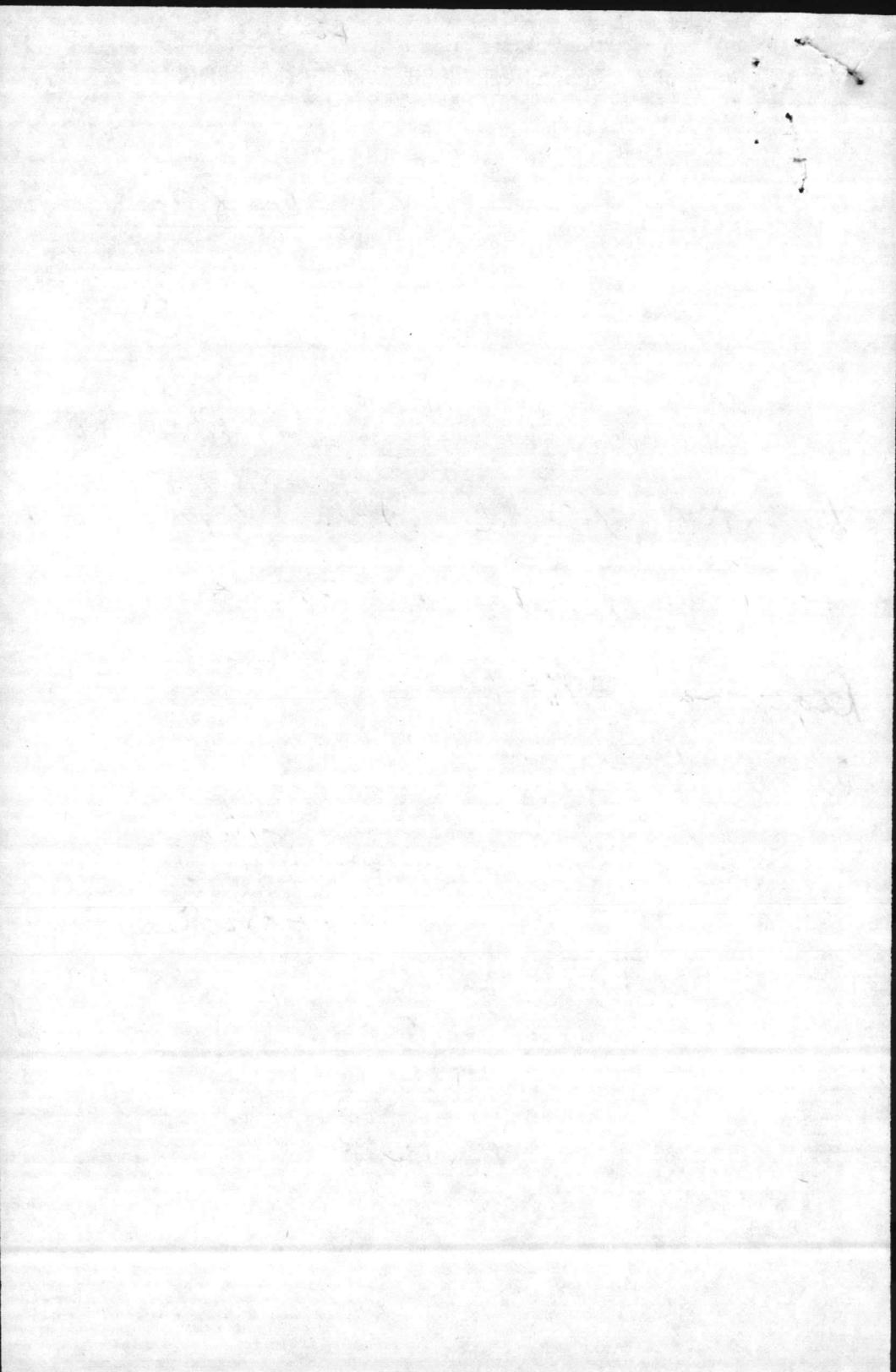
Jubian

~~JOE~~

TO Danny

RLW

DDG



Julian

Fred Hill (State) will

be here 1 Sept

To work with Betsy &

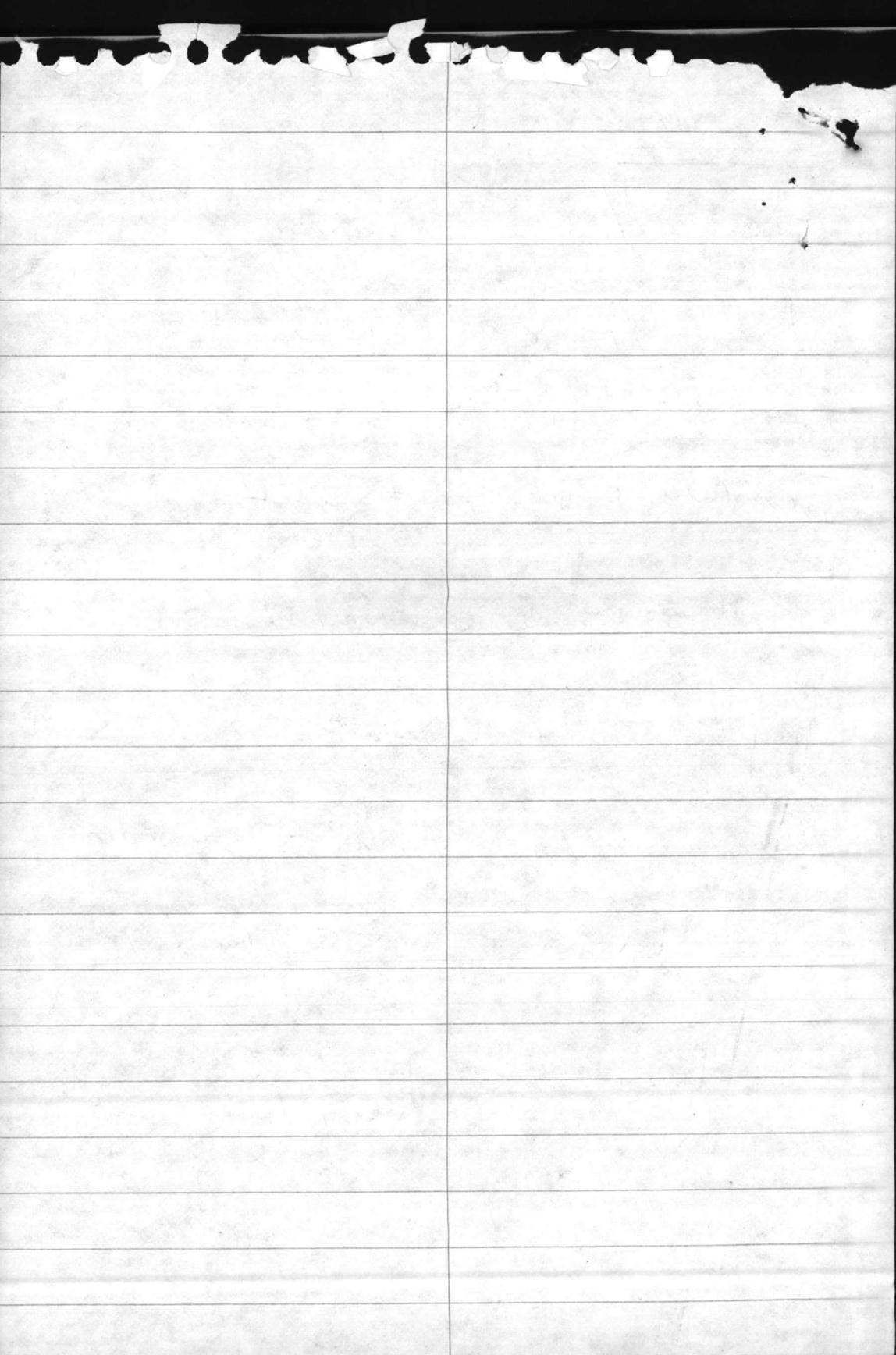
Price on establish

ID #'s for water plants

And possibly permanent sample

points

Shane



WG-13

WG-12

MEMO OF RECORD

			<u>MONTHLY</u>
< HP+HB	0467-040	27,000 + 8,000	40
PI+CI	0467-042 04	5,700 + 2,000	9
MCAS	0467-041	11,000	13
RR	043	1,000	2
CHB	044	1,800	2
OB	045	900	1

Handwritten notes at the top of the page, possibly a title or header.

1950

1951

1952

1953

1954

1955

1956

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1958

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1960

1961

1962

1963

1964

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1966

1967

1968

1969

1970

1971

1972

1973

1974

1975

1976

WED

ROUTING SLIP INITIAL

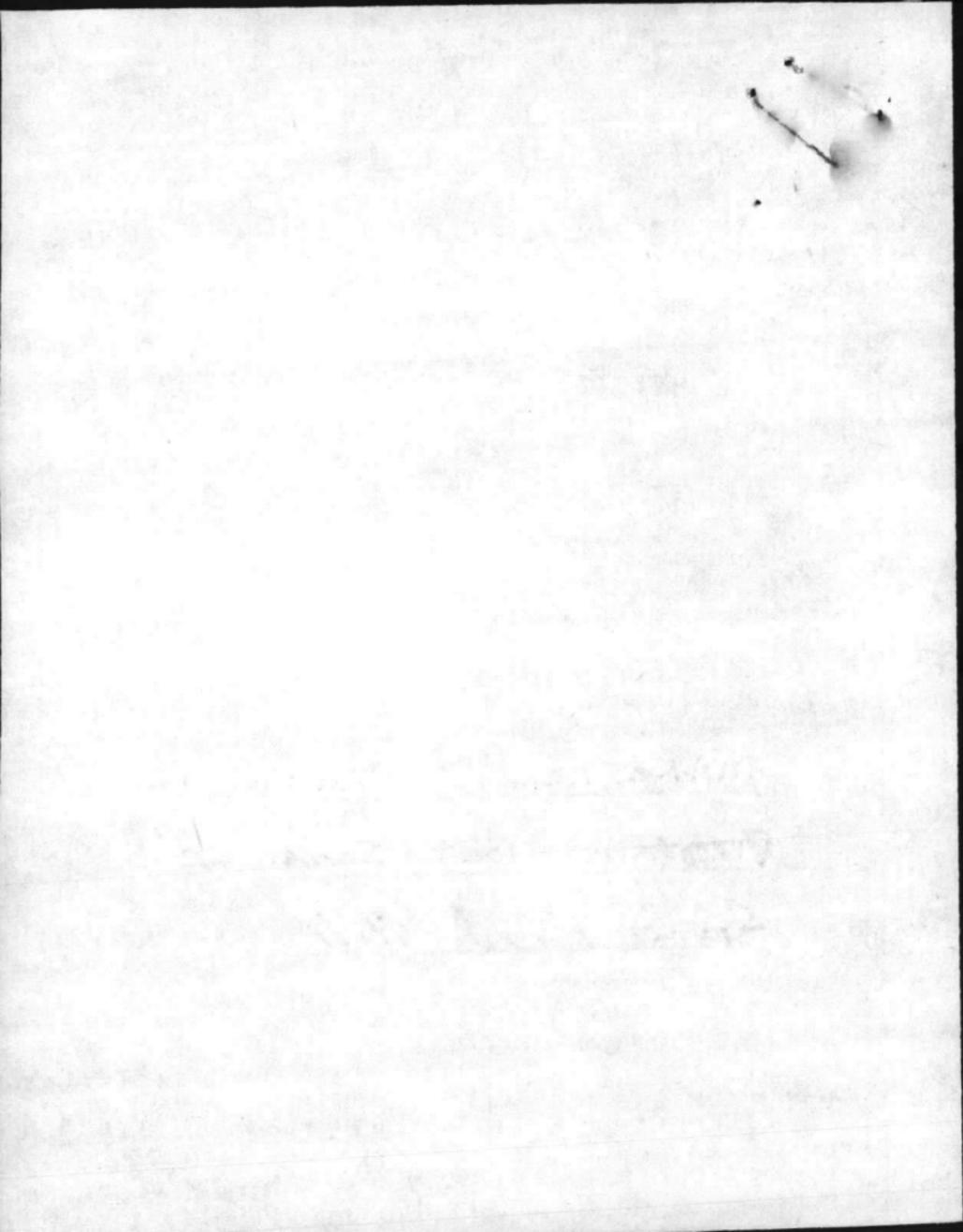
ECOLOGIST _____

CHEMIST _____

TECHNICIAN _____

ACTION REQUIRED:

MAKE NEEDED CHANGES IN
PROGRAM. GET SERIAL #'S
FROM FRED HILL



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

Date 8-9-82

From: Director, NREAB

To: *Danny*

Subj:

*Review and advise if anything
I need to know.*

Juban

Don't you just love it?

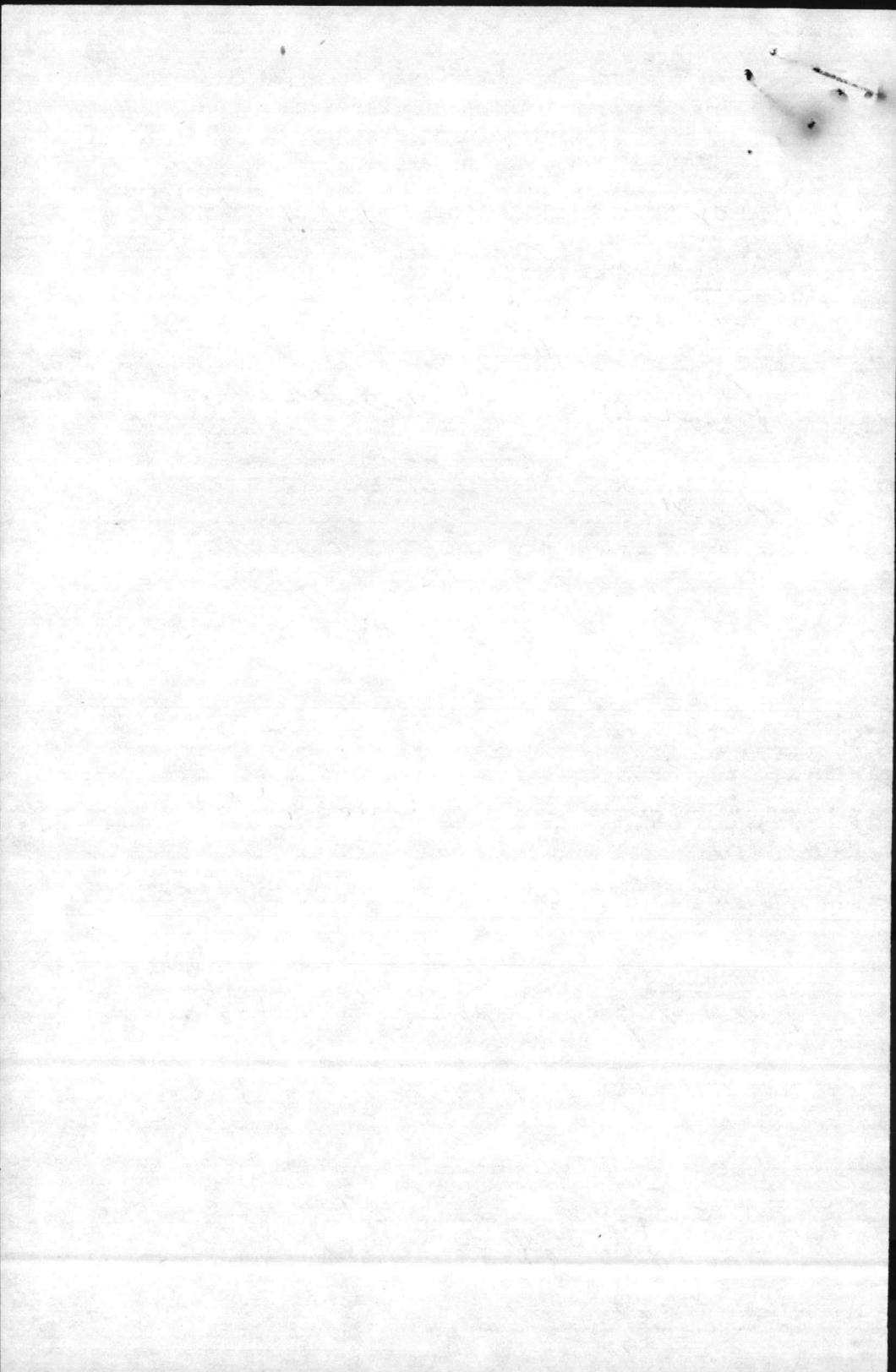
*Your Action
Danny Sharpe*

*Betsy is making changes.
See Her memo which
is attached*

OK

*fdw
8-24-82*

Sharpe



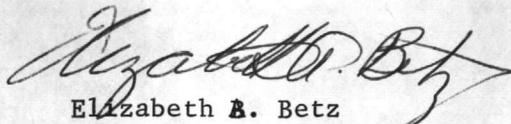
JULIAN - for your info stage
Date: 10 August 1982

From: Ms. Betz, Quality Control Lab., Environmental Section, NREAB, BMaintDiv

To: Mr. Sharpe, Supervisory Ecologist, Environmental Section, NREAB, BMaintDiv

Subj: Letter from the State of North Carolina on Data Reporting

1. After reviewing the letter from the Division of Health Services fo the State of North Carolina, I contacted Mr. D. Beesley, of the State, to answer some questions.
2. Concerning the coliform form. If we used this form in place of the one we are presently using, we would use approximately 164 sheets/month instead of 8 sheets/month. Mr. Beesley stated that we should continue using the DHS 1942 2/74 form. However, we needed to add the method code(303 for Membrane filter), the contaminant code (3000 for coliform), the Lab ID number(certificate #100), and the water system ID numbers to the forms. He stated that our systems had to have ID numbers and that Fred Hill should know them.
3. As for the inorganic and THM contaminants, these forms should be used. The results need to be sent to the State on these forms so the results get keyed in correctly.
4. Please see that copies of the forms enclosed with the letter, including the tables of codes are sent back to me.


Elizabeth A. Betz
Supervisory Chemist

Page 10 of 10

James M. ... Quality Control ...

For ...

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I ...

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Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
306 N. Wilmington St.
P.O. Box 28047
Raleigh, N.C. 27611-8047

MEMORANDUM

TO: All certified laboratories reporting data for drinking water compliance.

FROM: E. D. Beesley *EDB*
Ellen Neill *EN*
Laboratory Certification Evaluators
Environmental Sciences Branch

SUBJECT: Data Reporting

In order to permit orderly and accurate transfer of information to the Model State Information System (MSIS) computer network, the enclosed data sheets have been designed to permit easy and accurate reporting of information concerning potable water to the Office of Water Supply.

Included on each form, in addition to the usual sample information are blocks in which to enter the contaminant code* (10-13) and method code* (14-16) for each parameter. Blocks 17-21 are provided for entering test results. When contaminants not on the data sheets are reported, they should be entered in the blocks provided under optional parameters.

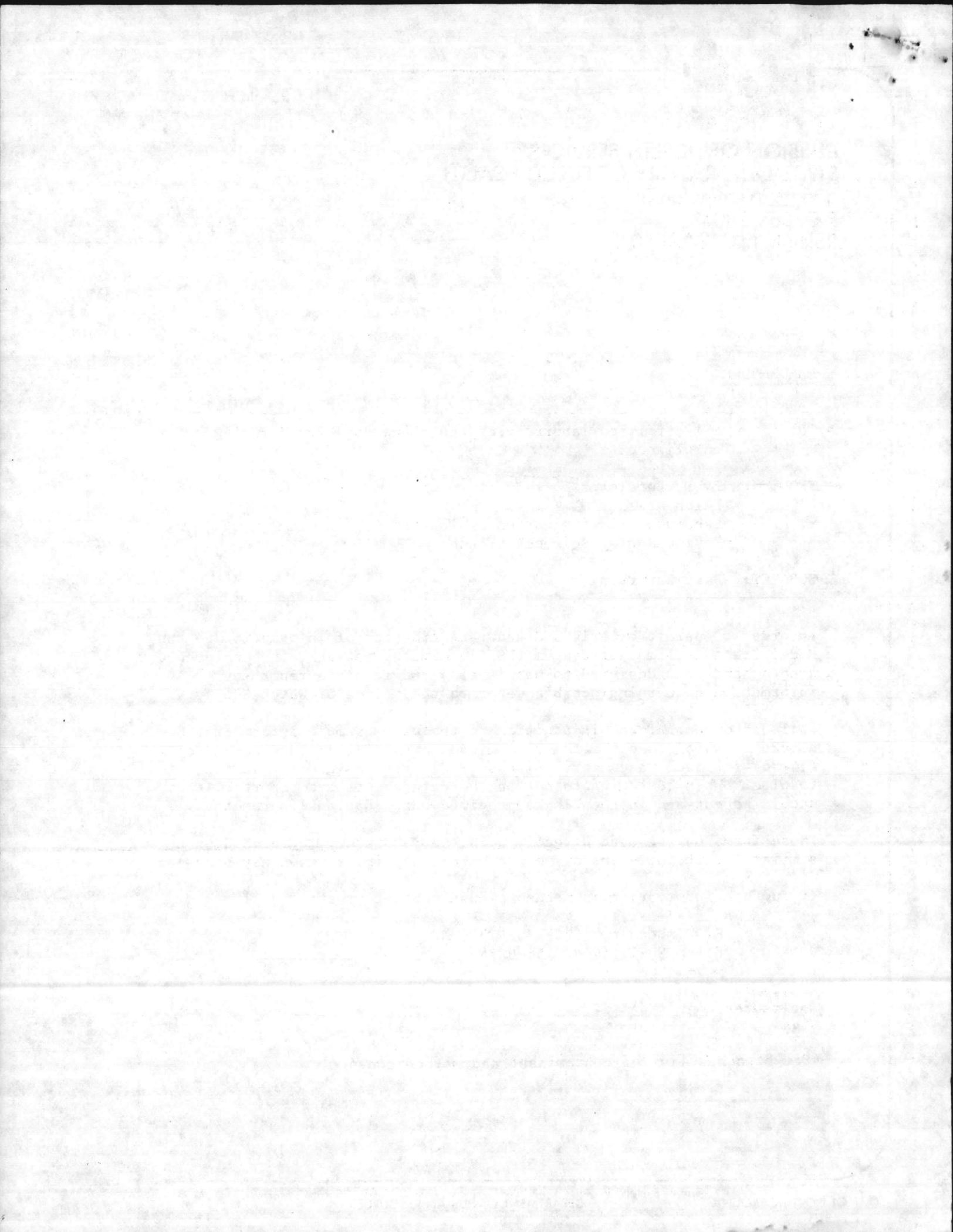
These forms may be used directly with the laboratory letterhead or a similar format including all of the necessary information may be used.

If further information is needed please contact us at:

E. D. Beesley (919) 733-7308
Ellen Neill (704) 256-9284

EDB;EN/leh
Enclosures
7-82

*See attached list of contaminant and method codes.



0	3				
T.C. (8-9)		Lab. ID (42-46)			

ORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

Water System I.D. Number

Complete All Items Above Heavy Line

0					
(1-7)					

Name of System: _____ Type of System:
 Community Non-Community

Address: _____ Source of Water:
 Ground Both
 Surface Purchased

County: _____

Report To: _____ Source of Sample:
 Distribution Tap House Tap
 Plant Tap Well Tap

Telephone Number: () - _____ Type of Treatment:

Collected By: _____
 Date Collected:

MM	DD	YY	Time: _____
(31-36)			(38-41)

 AM
 PM

Location of Sampling Point: _____
 (Address where sample was collected)

Remarks: _____ Type of Sample: (37)
 D-Regular M-M.R.T.
 C-Check S-Special

State Drinking Water Parameters (Required)

Contaminant ID	Name	Method	Results Mg/l								
(10-13)		(14-16)	(17-21)								
2005	Endrin	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
2010	Lindane	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
2015	Methoxychlor	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
2020	Toxaphene	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
2105	2,4-D	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
2110	2,4,5-TP (Silvex)	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
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Optional Parameters (List as needed)

Contaminant ID	Name	Method	Results Mg/l								
(10-13)		(14-16)	(17-21)								
_____	_____	<table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					
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Date Received _____ Date Reported _____ Reported By _____
 Date Extracted _____ Date Analyzed _____ Lab Number _____
 MM DD YY (22-27)

Comments:

0	3						
T.C. (8-9)		Lab. ID (42-46)					

INORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

Water System I.D. Number

0						
(1-7)						

Complete All Items Above Heavy Line
(See Instructions on Reverse Side)

Name of System: _____	Type of System: () Community () Non-Community
-----------------------	--

Address: _____	
----------------	--

County: _____ Zip _____	Source of Water: () Ground () Both () Surface () Purchased
-------------------------	--

Report To: _____	
------------------	--

Address: _____ Zip _____	Source of Sample: () Distribution Tap () House Tap () Plant Tap () Well Tap
--------------------------	---

Telephone Number: () - _____	
-------------------------------	--

Collected By: _____	Type of Treatment: () None () Lime () Chlorinated () Soda Ash () Fluoridated () Polyphosphate () Filtered () Water Softener () Alum () Other
---------------------	---

Date Collected:	MM	DD	YY	Time:	AM	PM
	(31-36)			(38-41)		

Location of Sampling Point: _____
(Address where sample was collected)

Loc. Code

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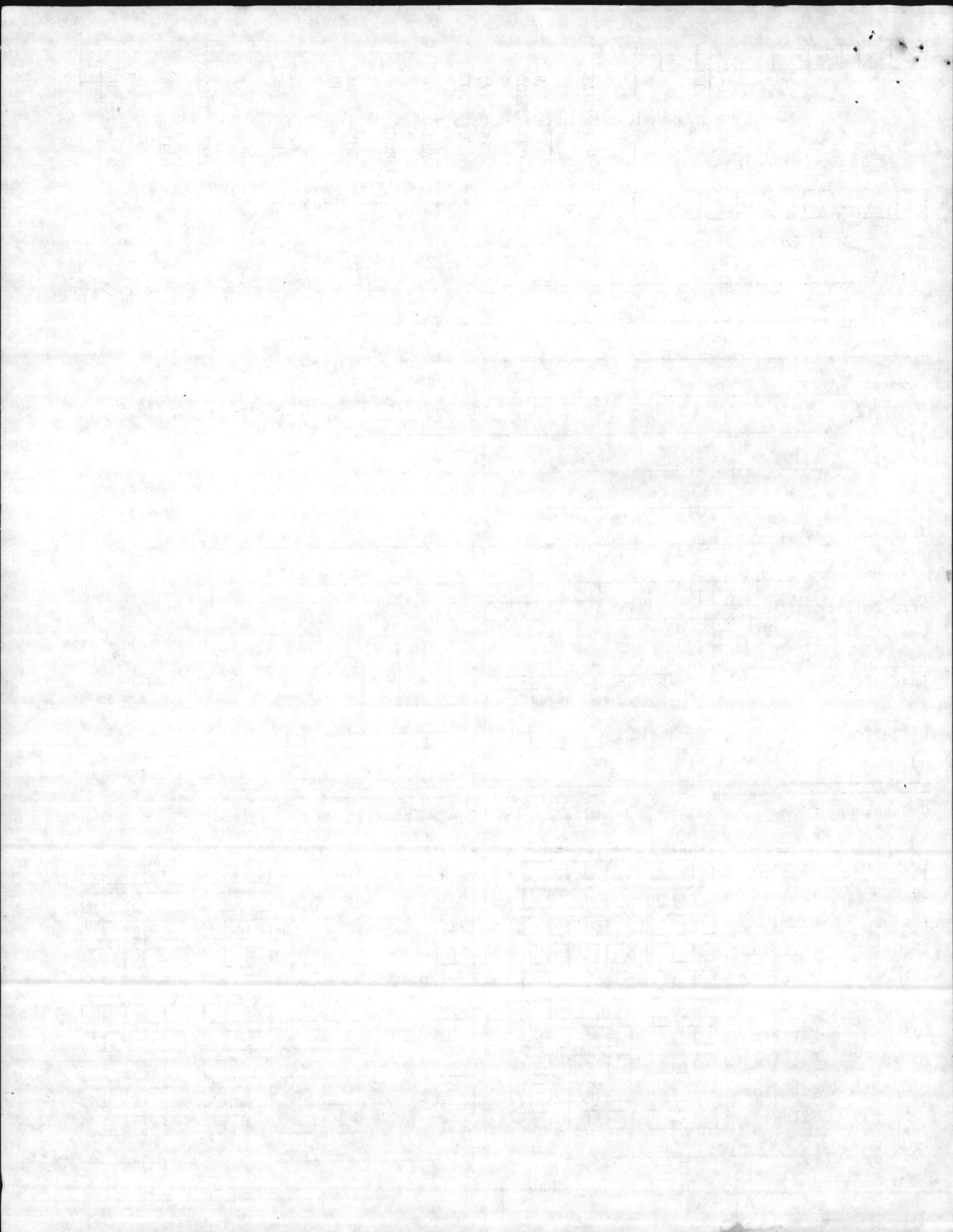
Remarks: _____ (28-30)

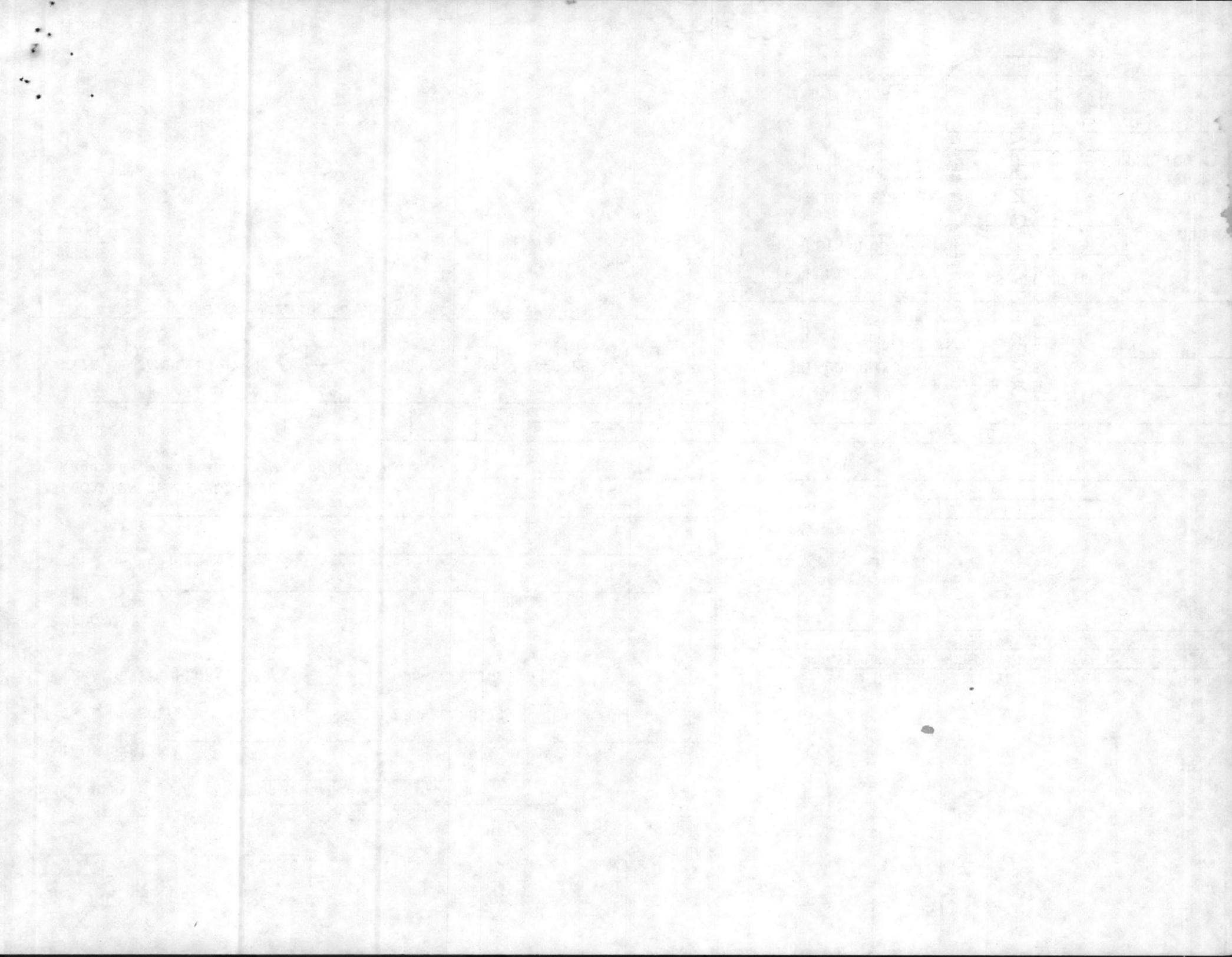
Type of Sample: (37)
() D-Regular () S-Special
() C-Check

Contaminant ID (10-13)	Name	Method (14-16)	Results Mg/l (17-21)									
1005	Arsenic	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1010	Barium	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1015	Cadmium	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1020	Chromium	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1025	Fluoride	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1030	Lead	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1035	Mercury	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1040	Nitrate (N)	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1045	Selenium	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1050	Silver	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						

Contaminant ID (10-13)	Name	Method (14-16)	Results Mg/l (17-21)									
1028	Iron	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1032	Manganese	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
1925	pH	<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td></tr></table>				<table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
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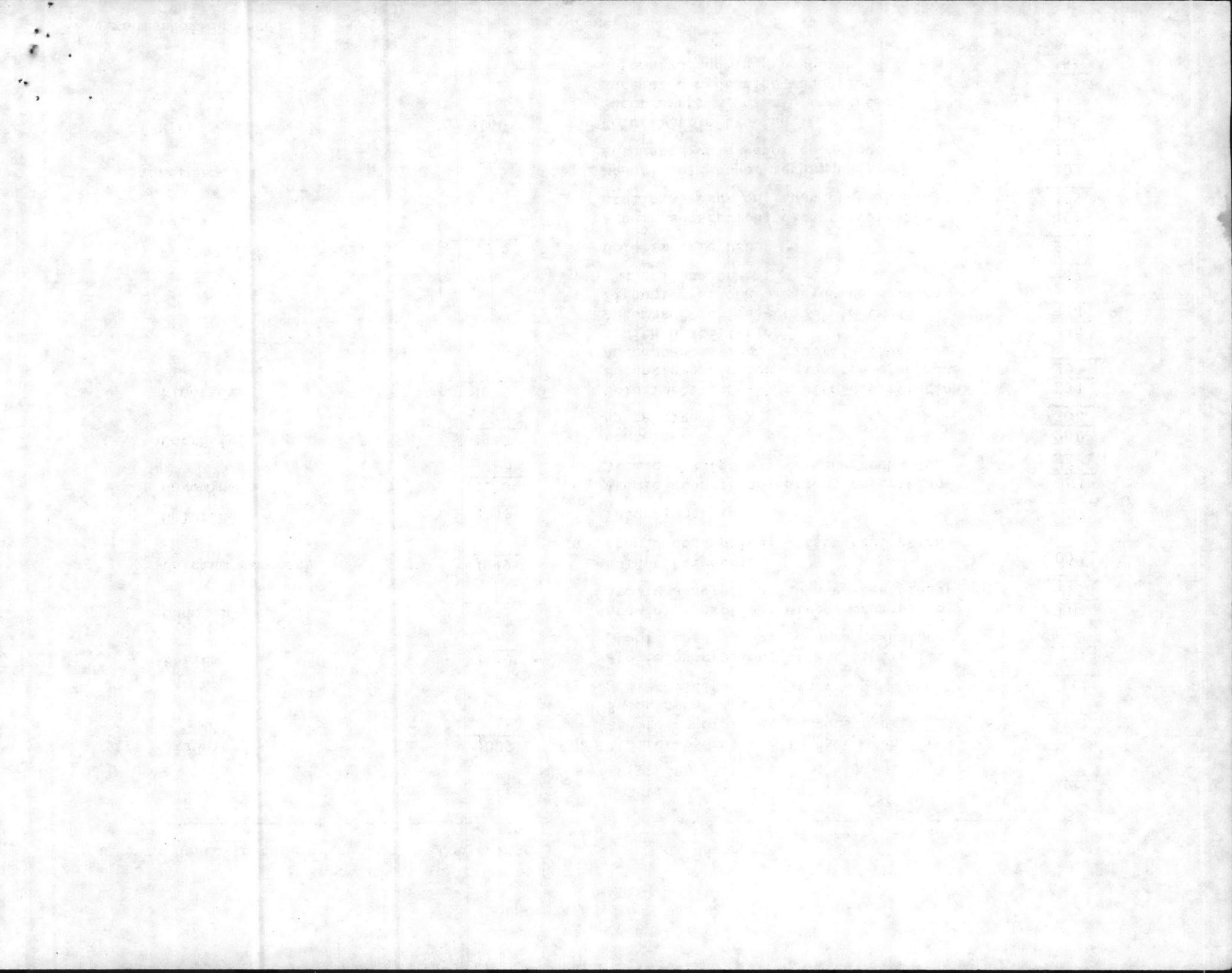
Date Received _____	Date Reported _____	Reported By _____
Date Analyzed _____	Laboratory Number _____	
	MM	DD
		YY
	(22-27)	





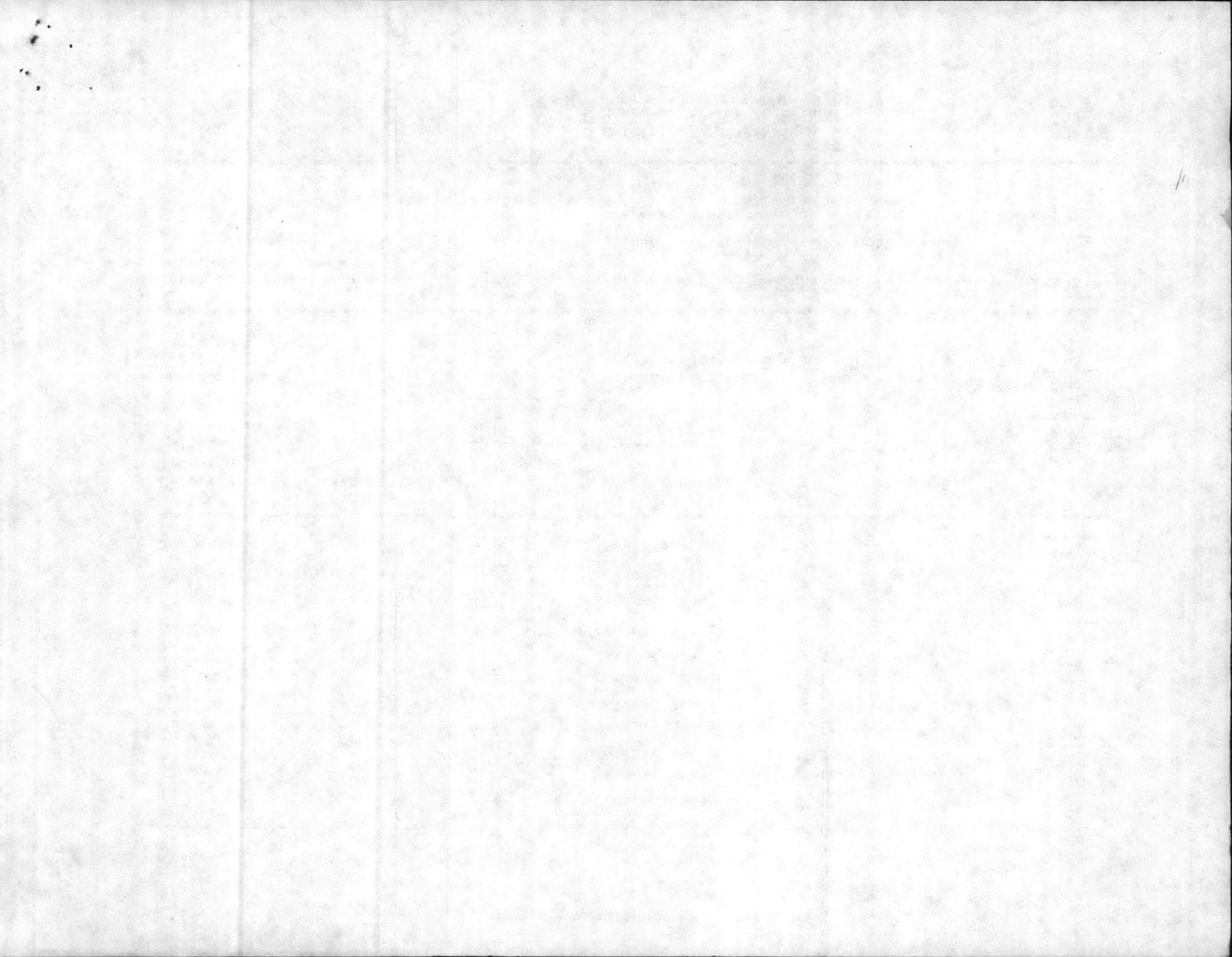
MODEL STATE INFORMATION SYSTEM
(MSIS)

Contaminant	Contaminant Code	Methodology	Method Code
Alkalinity	<u>1927</u>	Methyl orange titrimetric or Potentiometric	<u>142</u>
Arsenic	<u>1005</u>	Atomic absorption; furnace technique	<u>125</u>
		Atomic absorption; gaseous hydride Spectrophotometric, silver diethyldithiocarbamate	<u>123</u>
			<u>113</u>
Barium	<u>1010</u>	Atomic absorption; direct aspiration	<u>101</u>
		Atomic absorption; furnace technique	<u>125</u>
Cadmium	<u>1015</u>	Atomic absorption; direct aspiration Atomic absorption; furnace technique	<u>101</u> <u>125</u>
Calcium Hardness	<u>1919</u>	EDTA titrimetric	<u>141</u>
		Atomic absorption; direct aspiration	
Chloride	<u>1017</u>	Potentiometric	<u>127</u>
Chromium	<u>1020</u>	Atomic absorption; direct aspiration	<u>101</u>
		Atomic absorption; furnace technique	<u>125</u>
Corrosivity	<u>1910</u>	Langelier index	<u>140</u>
		Aggressive index	<u>138</u>
Fluoride	<u>1025</u>	Colorimetric SPADNS; with distillation	<u>111</u>
		Potentiometric ion selective electrode	<u>107</u>
		Automated Alizarin fluoride blue; with distillation	<u>115</u>
		Automated ion selective electrode	<u>118</u>
		Zirconium eriochrome cyanine R; with distillation	<u>117</u>
Free chlorine residual	<u>1012</u>	Colorimetric DPD	<u>301</u>
Lead	<u>1030</u>	Atomic absorption; direct aspiration	<u>101</u>
		Atomic absorption; furnace technique	<u>125</u>
Mercury	<u>1035</u>	Manual cold vapor technique	<u>103</u>
		Automated cold vapor technique	<u>119</u>
Nitrate	<u>1040</u>	Colorimetric brucine	<u>105</u>
		Spectrometric; cadmium reduction	<u>109</u>
		Automated hydrazine reduction	<u>121</u>
		Automated cadmium reduction	<u>163</u>



MODEL STATE INFORMATION SYSTEM
(MSIS)

Contaminant	Contaminant Code	Methodology	Method Code
pH	<u>1925</u>	Potentiometric	<u>135</u>
Selenium	<u>1045</u>	Atomic absorption; furnace technique	<u>125</u>
		Atomic absorption; gaseous hydride	<u>123</u>
Silver	<u>1050</u>	Atomic absorption; direct aspiration	<u>101</u>
		Atomic absorption; furnace technique	<u>125</u>
Sodium	<u>1052</u>	Atomic absorption; direct aspiration	<u>101</u>
		Atomic absorption; furnace technique	<u>125</u>
Sulfate	<u>1055</u>	Turbidimetric	<u>137</u>
Temperature	<u>1996</u>	Thermometer	<u>130</u>
Total filterable residue	<u>1930</u>	Gravimetric	<u>139</u>
Turbidity	<u>0100</u>	Nephelometric	<u>001</u>
<hr/>			
Chlorinated hydrocarbons:		Solvent extraction, gas chromatography	
endrin	<u>2005</u>		<u>201</u>
lindane	<u>2010</u>		<u>201</u>
methoxychlor	<u>2015</u>		<u>201</u>
toxaphene	<u>2020</u>		<u>201</u>
Chlorophenoxys:		Solvent extraction, derivatization, gas chromatography	
2,4-D	<u>2105</u>		<u>203</u>
2,4,5-T	<u>2110</u>		<u>203</u>
<hr/>			
Total Trihalomethanes (TTHM)	<u>2950</u>	Purge and trap, gas chromatography	<u>213</u>
		Solvent extraction, gas chromatography	<u>215</u>
		Gas chromatography/mass spectrometry	<u>217</u>
<hr/>			
Coliforms	<u>3000</u>	Multiple Tube Technique	<u>305</u>
		Membrane Filter Technique	<u>303</u>



After five days return to
STATE LABORATORY OF PUBLIC HEALTH

P. O. Box 28047

Raleigh, North Carolina 27611-8047



CAMP LEJEUNE/WTR QC BACT LAB
BASE MAINT DEPT/BLDG 65
CAMP LEJEUNE

NC 28542

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RA



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

DEC 23 1982

CAMP LEJEUNE/WTR QC BACT LAB
BASE MAINT DEPT/BLDG 65
CAMP LEJEUNE NC 28542

Re: Analytical Reporting Forms

Dear Sir:

In August 1982 a memorandum from Mr. E. D. Beesley and Ms. Ellen Neill, Laboratory Certification Evaluators, was mailed to all certified laboratories reporting data for drinking water compliance. The subject of the August memorandum was data reporting and contained the enclosed model reporting forms for inorganic, organic and bacteriological analyses. The memorandum requested each laboratory to either utilize the appropriate enclosed form or a similar form, of the laboratory's design, that included all of the information listed on the model form. The rationale for such a request is that it will permit an orderly and accurate transfer of information to a computer format which has previously been established by the Environmental Protection Agency. As of this date, this office is still receiving analytical data from private laboratories which does not comply with the previously mentioned memorandum.

It is the responsibility of the Water Supply Branch to enter all of the required monitoring data which is supplied by certified private laboratories. This office has neither the manpower nor the time to fill in information which is missing. Therefore, as of February 1, 1983, this office will begin returning all reporting forms that do not contain all of the requested information. The forms will be returned to either the laboratory that conducted the analysis or the owner depending upon who submits the forms. Subsequently, if the reporting forms are not returned to this office within the prescribed reporting period the public water system will be considered in violation of the monitoring and reporting requirements and will be notified of such.

As a reminder, Section .1631 of the "Rules Governing Public Water Supplies" states that all reports shall be received by this office within the first ten (10) days following the end of the required monitoring period. The bacteriological monitoring period for a community public water system is each calendar month. Thus reports for bacteriological samples collected and analyzed during October 1982 should be received by this office no later than November 10, 1982.

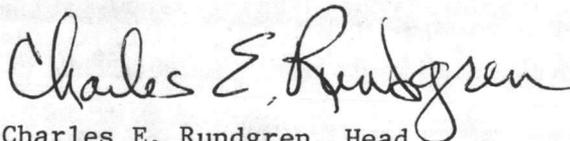
Also, there appears to be some confusion concerning the compliance procedures that may be utilized by a public water system that has exceeded the bacteriological maximum contaminant level (MCL). For your information, there are two procedures which may be utilized to bring a public water system back into compliance thus eliminating the need for complying with the public notification requirements. The two procedures are: substitution and percentage.

The substitution procedure can be utilized only by those public water systems that collect ten (10) or less bacteriological samples per month and may be used for only one positive sample. This procedure requires that two (2) check samples and another regular monthly sample be collected during the same month in which the violation occurs. If coliform bacteria is not detected in any of the additional samples then the owner can request in writing that this office substitute the negative regular monthly sample for the positive regular monthly sample. This procedure may not be utilized two consecutive months.

The percentage procedure may be utilized by all public water systems. This procedure requires that enough additional bacteriological samples be collected to reduce the monthly average below the MCL. The required number of extra samples needed to satisfy this procedure can best be determined by contacting this office. All extra samples must be collected during the month in which the violation occurs. This procedure may be utilized as often as desired.

If you have any further questions, please do not hesitate to contact Mr. Larry Elmore at telephone (919) 733-2321.

Very truly yours,



Charles E. Rundgren, Head
Water Supply Branch
Environmental Health Section

WLE:spm

Enclosures