REVLON

767 Fifth Avenue
New York, N.Y. 10153
(212) 572-5954

Seth A. Davis
Senior Regulatory Counsel

December 26, 1984

Mr. Jose Font
Room 402
Site Investigation and Compliance Branch
United States Environmental Protection Agency, Region II
26 Federal Plaza
New York, New York 10278

Re: Frontera Creek, Humacao, Puerto Rico - Request for Information under 42 USC §9604 and 42 USC §6927 (Technicon Electronics Corporation)

Dear Mr. Font:

The Letter of William J. Librizzi dated November 26th, addressed to Technicon Electronics and Reagents Corporation in Humacao, Puerto Rico, and received by Technicon on December 3rd has been referred to me for response. Technicon Electronics Corporation, the operator of the Humacao family, is a wholly owned subsidiary of Technicon Instruments Corporation, which, in turn, is a wholly owned subsidiary of Technicon Corporation, which, in turn, is a wholly owned subsidiary of Revlon, Inc. I would appreciate your addressing any further correspondence concerning this matter to my attention at the above address.

The following constitutes Technicon's responses to the six inquiries attached to Mr. Librizzi's letter. The answers are based upon information furnished to me by the general manager of the Technicon Electronics Corporation plant in Humacao, and Technicon Instrument Corporation's Regulatory Affairs Department in Tarrytown, New York.

1. Pursuant to applications for an NPDES permit, liquid wastes were discharged by Technicon into a tributary leading to the Frontera Creek in Humacao, Puerto Rico from 1970 through 1979. It is believed that certain of these wastes contained materials defined as "hazardous substances" under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("CERCLA").

2. During the period between 1970 and 1984, apart from the wastewater discharge referred to in the response to question number 1, liquid hazardous wastes consisting of varying percentages of acetic acid, liquid phenol, diethylamine, methanol and diethylene glycol were generated by Technicon.

3. Liquid wastes discharged into Frontera Creek from 1970 through 1979, pursuant to applications for an NPDES permit, consisted of washings from transfer lines and mixing tanks which contained residual amounts of certain hazardous materials. Wastes from the following products would have contributed amounts of mercury compounds, arsenic compounds, sodium azide and potassium cyanide.

Technicon P/N	Product Name	Original Concentration	Approx. Dates
(1) Mercury Thiocyanate used in:			
T01-0026-XX	Mercuric Thiocyanate	.71 gm/lt	1973-1976
T01-0352-XX	Chloride Color	.64 gm/lt	1972-1979
(2) Mercury Nitrate used in:			
T01-0027-XX	Mercuric Nitrate	68.5 gm/lt	1973-1975
(3) Mercury Bichloride used in:			
T11-0284-XX	Fixative FU-48	55% by weight	1972-1977
(4) Thimerosal used in:			
On various products as preservative		.1 gm/lt	1972-1979
(5) Arsenic Trioxide used in:			
T01-0122-XX	Arsenious Acid	9.8 gm/lt	1973-1977
(6) Sodium Azide used in:			
T21-0184-XX	Phosphate Buffer	1 gm/lt	1973-1978
(7) Potassium Cyanide used in:			
T01-0319-XX	Diethylamine Cyanide	.5 gm/lt	1976-1979

4. The following table sets forth the methods of disposal of all hazardous wastes as defined in the Resource Conservation and Recovery Act of 1976, or containing hazardous substances as defined in CERCLA, from the Humacao facility from 1970 through 1984.

Waste Type	Dates	Site	Carrier
Liquid	1970 - September 1979	Frontera Creek	Pipe
Liquid Waste	August 1978	Penuelas	Servicios Carbareon Inc.

Carrier's Name/Address:

Servicios Carbareon, Inc. - Suite 416, Cobian Plaza
Ave. Ponce de Leon #1607
Santurce, P.R. 00909

5. The following quantities of hazardous wastes were transported from the Technicon plant at Humacao to Servicios Carbareon. No other hazardous substances were transported by Technicon to any treatment plant or disposal facility.

Acetic Acid 99.8%	521 gallons
Liquid Phenol 82%	38 gallons
Diethylamine 99%	146 gallons
Methanol 99%	24 gallons
Diethylene Glycol 98%	54 gallons

6. Pursuant to the discussion on December 20 among us, Bruce Adler, Esq. and Steven Tasher, Esq. you have agreed to extend Technicon's time to identify documents responding to your request in question 6. We will furnish you, by January 21, with a generic description of all documents in Technicon's possession responding to this request, together with their location. Should you require amplification of these descriptions, you will contact me directly.

I certify that the foregoing answers to EPA's request for information are true, complete and accurate to the best of my belief.

Very truly yours,

SAD/dp

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 26 198

CERTIFIED MAIL-
RETURN RECEIPT REQUESTED

Technicon Electronics & Regeants Corp.
P.O. Box 1001
Humacao, Puerto Rico 00661

Re: Frontera Creek, Humacao, Puerto Rico
Request for Information Under 42 U.S.C. §9604
and 42 U.S.C. §6927

Dear Sir:

The United States Environmental Protection Agency ("EPA") is charged with responding to the release or threatened release of hazardous substances and with enforcement responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), 42 U.S.C. §9601 et seq. EPA also regulates the handling of hazardous waste under the Resource Conservation and Recovery Act ("RCRA"), 42 U.S.C. §6901 et seq.

Section 104(e)(1) of CERCLA, 42 U.S.C. §9604(e)(1), allows EPA to request certain information from parties who handle hazardous substances as that term is defined at Section 101(14) of CERCLA, 42 U.S.C. §9601(14). Section 3007 of RCRA, 42 U.S.C. §6927, allows EPA to request certain information from parties who handle hazardous waste as that term is defined at Section 1004 of RCRA, 42 U.S.C. §6904. Pursuant to the provisions of those Sections, we hereby require that your company answer the questions posed in the Attachment to this letter. Please include the company's EPA Identification Number, if it has one, in the response.

The company's response to this Request for Information should be postmarked or received at EPA within 20 calendar days of your receipt of this letter, and should be mailed to Mr. Jose Font, Room 402, Site Investigation and Compliance Branch, U.S. Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York 10278.

The company's failure to respond to this Request of Information within the time specified above may subject it to an enforcement action under Section 3008 of RCRA, 42 U.S.C. §6928. Such enforcement action may include the assessment of substantial penalties of up to $25,000.00 for continued noncompliance.

FRO 002 0374

CONCURRENCES

~~2ERRD:SICB:JFONT:se;11/15/84~~

SYMBOL	SICB	SICB	ERRD:DD	ORC:WTS	ERRD			
SURNAME	FONT	OGC	LUFTIGG	ADLER	LIBRIZZI			
DATE	11-15-84	11/20	11/23/84		11/26			

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

*U.S. GPO : 1984-436-836

Be advised that the company is under a continuing obligation to supplement its response if information not known or not available to the company as of the date of submission of its response should later become known or available to the company.

Moreover, should the company find, at any time after the submission of its response, that any portion of the submitted information is false or misrepresents the truth, the company is under an obligation to notify EPA thereof as soon as possible. If any part of the company's response is found to be untrue, the signatory and company may be subject to criminal prosecution.

This Request for Information is not subject to the approval requirements of the Paperwork Reduction Act of 1980, Title 44 of the United States Code. The company may, if it so desires, assert a business confidentiality claim covering all or part of the information herein requested. The claim may be asserted by placing on (or attaching to) the information, at the time it is submitted, a cover sheet, stamped or typed legend, or other suitable form of notice employing language such as "trade secret," or "proprietary," or "company confidential." Information covered by such a claim will be disclosed by EPA only to the extent and by means of procedures set forth in Subpart B, part 2, Code of Federal Regulations (41 FR 36906, September 1, 1976, as modified at 43 FR 39997, September 8, 1978). If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice to the company.

If you have any questions about this letter, you may call Mr. Font at (212) 264-7508. Your cooperation is appreciated.

Sincerely yours,

William J. Librizzi, Director
Emergency & Remedial Response Division

Attachment

Information Requested

1. Were any hazardous substances and/or hazardous wastes which your company hauled, handled or generated between 1970 and 1984 discharged into the Frontera Creek or tributary located in Humacao, Puerto Rico? If the answer is yes, please provide the date(s) on which these substances were discharged to the Creek.

2. During the period of time referred to in question one, was any refuse which may have contained hazardous substances and or hazardous wastes and which may have been discharged into the Creek, hauled, handled or generated by your company? If so, identify the nature of them.

3. For the period of time referred to in question one, please identify the nature and quantity of all hazardous substances and/or wastes discharged into the creek. To identify a chemical or other hazardous substance, include the name, composition and its source and/or origin. If applicable, identify the manufacturing process in which the hazardous substance was generated and include a copy of all chemical analyses performed.

4. For the time period referred to in question one, identify where all waste materials generated at your facility were disposed of. Provide the location and type of disposal facility (e.g. landfill, treatment plant) and the identification of all transporters used to haul the wastes including name, address, telephone number and any other appropriate identification.

5. Please indicate the amount of each type of hazardous substance transported to any treatment plant. For liquid wastes your answer should be in terms of volume, for solid waste, in terms of weight.

6. Please submit or identify all documents which relate to the disposal, storage or treatment of hazardous substances at the creek, at your facilities or at a treatment plant. To identify a document, describe the nature of the document (e.g., invoice, inventory form, etc.), briefly describe the relevant information contained therein identify by name and job title the person who prepared the document, and if the document is not readily available, identify where it is stored or maintain or why it is no longer available.

CHANEL Manufacturing
P.O Box 9029
Humacao P.R. 00661

P. C. R. Puerto Rico Inc.
P.O. Box 960
Pta. Santiago P.R. 00741

Peerless Tube Company
P.O. Box 817
Humacao P.R. 00661

Bolar Incorporated
P.O. Box 3500
Humacao, P.R. 00661

Esplas
P.O. Box 8370
Humacao P.R. 00661

Denver Chemicals of P.R. Inc.
Rural Box 914
Humacao P.R. 00661

Polyplastics
P.O. Box 8370
Humacao P.R. 00661

Schmid Product Corp. of P.R.
Buzon Rural 2522
Humacao P.R. 00661

Warren Teed Inc
Rural Road Box 905
Humacao P.R. 00661

Alcon P.R.
P.O. Box 3000
Humacao P.R. 00661

Colorcon P.R. Inc.
P.O. Box 979
Pta. Santiago P.R. 00741

Squibb MFG.
P.O. Box 609
Humacao, P.R. 00661

FRO 002 0377

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10007

DEC 12 1979

RECEIVED
DEC 17 1979
CARIBBEAN OFF
U. S. ENVIRONMEN
PROTECTION AGEN

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Sidney L. Hershey
General Manager
NPDES → Technicon Electronics Corporation
P.R. Road No. 3; Km 77.4
Box 1001
Humacao, Puerto Rico 00661

Re: Deletion from Active File
NPDES Application Permit No.: PR0000990

Dear Mr. Hershey:

It has been determined after a review of your National Pollutant Discharge Elimination System Application for permit to discharge, and/or other information received by this office that a U.S. Environmental Protection Agency permit may not be required for the following reasons:

All discharge of wastewaters from the facility has been terminated.

Enclosed is an Affidavit of Exemption which, if applicable to your situation, should be completed and returned to this office within 14 days after your receipt of this letter. After we receive your completed, signed and notarized Affidavit, your application/permit will be officially deleted from our active files. (If you believe the Affidavit is not applicable, please inform us within the allotted 14 days what your reasons are for that belief).

If it is anticipated that the facility will be reactivated and a discharge will occur, a new application must be filed with this office at least 180 days prior to activation.

Your cooperation in the NPDES program is appreciated.

Sincerely yours,

Richard A. Baker

Richard A. Baker
Chief
Permits Administration Branch
Planning and Management Division

Enclosure N/R

cc: P. Gelabert - PREQB

bcc: W. Clevenger - SJO
F. Langone
P. Harvey

FRO 002 0378

cc 07
LS

RECEIVED
APR 10 1985
U. S. ENVIRONMENTAL PROTECTION AGENCY
CARIBBEAN OFFICE

APR [illegible] 1985

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Sidney Hershey
General Manager
Technicon Electronics Corporation
PR Road Number 3 Box 1001
Humacao, Puerto Rico 00661

file

Re: Technicon Electronics Corporation
I.D. Number PRD090083478

Dear Mr. Hershey:

Section 3005 of the Resource Conservation and Recovery Act (RCRA) mandates the Environmental Protection Agency (EPA) to establish a program requiring permits for hazardous waste treatment, storage, and disposal facilities. EPA has issued regulations to implement this permit program, which are published at 40 CFR Parts 270 (formerly 122), 261, 264 and 265.

Pursuant to these regulations, you have already submitted Part A of your permit application. This letter constitutes an official request for Part B of the application for the above referenced facility. Your application must be submitted by no later than October 14, 1985. Please note that your failure to submit the necessary information by the required date may be grounds for termination of interim status pursuant to 40 CFR §270.10(e)(5) (formerly §122.22(a)(5)). In addition, the newly enacted Hazardous Solid Waste Act Amendment mandates that all hazardous waste land disposal facilities submit a complete Part B application by November 8, 1985.

In order to prepare your Part B application and make any necessary revisions to your Part A application, you may need to refer to the following:

1. 40 CFR §270.14-270.29 (formerly §122.25): The required contents of the Part B application. This document (current as of July 1, 1984) has been enclosed for your convenience. This enclosure should assist you in assessing the completeness of your submittal.

FRO 002 0379

2. 40 CFR Part 261: The identification and listing of hazardous waste. This regulation has been extensively amended since you submitted your Part A application. In order to ensure that your submittal is current, we recommend that you review your operation in light of this current list.

3. 40 CFR Part 264: Standards for hazardous waste treatment, storage and disposal facilities. This regulation sets forth the technical standards which must be met by these facilities.

All of the regulations cited above were published in the Code of Federal Regulations (CFR) revised as of July 1, 1983. The regulations are published in one volume; 40 CFR Parts 190 to 399. The CFRs are available through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, at a cost of $7.50. For your convenience, we have also enclosed a list of all of the pertinent amendments to 40 CFR §270.14-270.29 (formerly §122.25) and 40 CFR Parts 261 and 264 made subsequent to July 1, 1983.

Also enclosed for your reference is a copy of "A Guide for Preparing RCRA Storage Permit Applications" and another guide entitled "Permit Applicant's Guidance Manual for Hazardous Waste Land Storage, Treatment and Disposal Facilities." Although the guidance documents are in preliminary form, they contain useful guidance for preparing Part B permit applications. We recommend that your application format follow the order suggested in these documents.

In addition to the regulations cited above, your facility is subject to the requirements of the Hazardous Solid Waste Act Amendments of 1984.

One of the principal areas of concern at this time is Section 3004(u) of the RCRA amendments which requires that all RCRA permits include corrective action to clean up any contamination caused by prior release of hazardous waste or hazardous waste constituents from a solid waste management unit, regardless of when the waste was placed in the unit. In order to determine if your facility will be subject to the new requirements, please supply the information requested in Attachment I and return it by July 2, 1985. Other relevant RCRA amendments applicable to your facility concern the requirements to submit an exposure assessment to EPA along with your Part B application and that all new units or expansions of new units meet the minimum technology standards. EPA expects to issue guidance on these amendments within the next several weeks.

All information submitted in Part B of your application will be subject to public disclosure, to the extent provided by RCRA and the Freedom of Information Act, 5 U.S.C. Section 552, and EPA's Business Confidentiality Regulations, 40 CFR Part 2. You may, however, make claims of confidentiality. Such claims must be clearly indicated by marking "Confidential" on the specific information for which confidential treatment is requested, and must be accompanied, at the time of submission, by a written substantiation of the claim, by answering the following questions:

FRO 002 0380

A. Which portions of the information do you claim are entitled to confidential treatment?

B. For how long is confidential treatment desired for this information?

C. What measures have you taken to guard against undesired disclosure of the information to others?

D. To what extent has the information been disclosed to others, and what precautions have been taken in connection with that disclosure?

E. Has EPA or any other Federal agency made a pertinent confidentiality determination? If so, include a copy of such determination or reference to it, if available.

F. Will disclosure of the information be likely to result in substantial harmful effects on your competitive position? If so, what would those harmful effects be and why should they be viewed as substantial? Explain the causal relationship between disclosure and the harmful effects.

Information covered by a confidentiality claim and the above substantiation will be disclosed by EPA only to the extent and by means of the procedures set forth in 40 CFR Part 2. If no claim of confidentiality or no substantiation accompanies the information when it is submitted, EPA may make the information available to the public without further notice to the submitter.

For all claims of confidentiality, EPA is requesting that the applicant submit a complete original application with those pages considered confidential clearly marked and an abridged original application with those pages considered confidential removed from the abridged version.

In order to assist you in developing the Part B application and to familiarize the regulatory permit personnel with the facility's RCRA status, an inspection/meeting has been scheduled for early May 1985. An EPA representative will contact you to establish the specific date. All submittals should be addressed to the attention of:

Richard M. Walka, Chief
Solid Waste Branch
U. S. Environmental Protection Agency
26 Federal Plaza, Room 905
New York, New York 10278

Please submit three copies of the application along with the original to the above address. One copy of the application should be sent to:

Mr. Jesus Medero
Acting Director
Environmental Quality Board
P.O. Box 11483
Santurce, Puerto Rico 00910-1488

Should you wish to discuss the contents of the Part B application or this letter, please contact Mr. Andrew Bellina of my staff at (212) 264-9638.

Sincerely yours,

Conrad Simon
Director
Air and Waste Management Division

Enclosure

cc: Mr. Jesus Medero
Acting Director
Environmental Quality Board

bcc: Weems Clevenger, Director, CA
Richard Baker, PAB
Andrew Bellina, SWB

DEPARTMENT OF THE ARMY
SAN JUAN AREA, CORPS OF ENGINEERS
P. O. BOX 3829
OLD SAN JUAN, PUERTO RICO 00904

ADDRESS REPLY TO:

AREA ENGINEER
SAN JUAN AREA
U. S. ARMY, CORPS OF ENGINEERS
P. O. BOX 3829
OLD SAN JUAN, P. R. 00904

REFER TO FILE NO. SAJVA

26 August 1971

Technicon Electronics Corp.
P. O. Box 1001
Humacao, P. R. 00661

Gentlemen:

Inclosed are Part B of the Refuse Act permit program discharge application Eng Form 4345-1, pages 1B through 7B of 7 pages, dated June 1971, and the instructions for Part B, pages 26 through 58. You must complete Part B since your operation is classified under the Critical Industrial Group as listed on page 27 of the Instructions for Part B. Please complete the bottom half of this letter and return entire letter with completed Part B before 1 October 1971. The signatory below must be the same person who signed the original application or another official meeting the same qualifications as the original signatory. If you need additional information or clarification on this matter, please contact Mr. L. A. Rodriguez, of this office, at telephone 723-0132.

Sincerely yours,

R. S. Lluch

R. S. LLUCH
Area Engineer

Application Number _____ Discharge Serial Numbers 001

I certify that I am familiar with the information contained in Part B of this application, and that to the best of my knowledge and belief such information is true, complete and accurate.

F. O. McCormick

Signature of Applicant

Technicon Electronics

Name of Applicant

002 0383

FOR AGENCY USE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

STANDARD FORM C – MANUFACTURING AND COMMERCIAL

SECTION I. APPLICANT AND FACILITY DESCRIPTION

Unless otherwise specified on this form all items are to be completed. If an item is not applicable indicate 'NA.'

ADDITIONAL INSTRUCTIONS FOR SELECTED ITEMS APPEAR IN SEPARATE INSTRUCTION BOOKLET AS INDICATED. REFER TO BOOKLET BEFORE FILLING OUT THESE ITEMS.

Please Print or Type

1. Legal Name of Applicant (see instructions)	101	TECHNICON INSTRUMENTS CORPORATION
2. Mailing Address of Applicant (see instructions) Number & Street	102a	511 Benedict Avenue
City	102b	Tarrytown
State	102c	New York
Zip Code	102d	10591
3. Applicant's Authorized Agent (see instructions) Name and Title	103a	Thomas J. Macek, Ph.D. Sr. Vice-President, Regulatory Affairs/Quality Assurance
Number & Street Address	103b	511 Benedict Avenue
City	103c	Tarrytown
State	103d	New York
Zip Code	103e	10591
Telephone	103f	914 (Area Code) 631-8000 (Number)
4. Previous Application If a previous application for a National or Federal discharge permit has been made, give the date of application. Use numeric designation for date.	104	71 (YR) 07 (MO) 15 (DAY)

I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Thomas J. Macek, Ph.D. (Printed Name of Person Signing)	102e	Senior Vice President (Title)
	102f	YR MO DAY
Signature of Applicant or Authorized Agent		Date Application Signed

18 U.S.C. Section 1001 provides that:

Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and wilfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statement or representation, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than $10,000 or imprisoned not more than five years, or both.

FOR AGENCY USE

Received ___ YR ___ MO ___ DAY

OFFICE: ___ EPA Region Number
___ State

EPA Form 7550-23 (7-73)

This section contains 3 pages.

FRU 002 0384

FOR AGENCY USE

Give the name, ownership, and physical location of the plant or other operating facility where discharge(s) does or will occur.

Name	105a	TECHNICON ELECTRONICS CORPORATION
Ownership (Public, Private or Both Public and Private)	105b	☐ PUB ☒ PRV ☐ BPP
Check block if Federal Facility and give GSA Inventory Control Number	105c	☐ FED
	105d	
Location Street & Number	105e	Route 3, Km. 77.4
City	105f	Humacao
County	105g	N/A
State	105h	Puerto Rico

6. Nature of Business State the nature of the business conducted at the plant or operating facility.

	106a	Manufacture of Electronic Instruments and Diagnostic Reagents.
	106b	AGENCY USE

7. Facility Intake Water (see instructions) Indicate water intake volume per day by sources. Estimate average volume per day in thousand gallons per day.

Municipal or private water system	107a	13.050	thousand gallons per day
Surface water	107b	N/A	thousand gallons per day
Groundwater	107c	N/A	thousand gallons per day
Other*	107d	N/A	thousand gallons per day
Total Item 7	107e	13.050	thousand gallons per day
*If there is intake water from 'other,' specify the source.	107f	N/A	

8. Facility Water Use Estimate average volume per day in thousand gallons per day for the following types of water usage at the facility. (see instructions)

Noncontact cooling water	108a	0.04	thousand gallons per day
Boiler feed water	108b	N/A	thousand gallons per day
Process water (including contact cooling water)	108c	11.510	thousand gallons per day
Sanitary water	108d	1.500	thousand gallons per day
Other*	108e	N/A	thousand gallons per day
Total Item 8	108f	13.050	thousand gallons per day
*If there are discharges to 'other,' specify.	108g	N/A	
If there is 'Sanitary' water use, give the number of people served.	108h	321	people served

FRO 002 0385

EPA Form 7550-23 (7-73)

FOR AGENCY USE

9. All Facility Discharges and other Losses; Number and Discharge (see instructions) Volume Specify the number of discharge points and the volume of water discharged or lost from the facility according to the categories below. Estimate average volume per day in thousand gallons per day.

		Number of Discharge Points		Total Volume Used or Discharged, Thousand Gal/Day
Surface Water	109a1	N/A	109a2	N/A
Sanitary wastewater transport system	109b1	One	109b2	1.500
Storm water transport system	109c1	N/A	109c2	N/A
Combined sanitary and storm water transport system	109d1	One	109d2	1.500
Surface impoundment with no effluent	109e1	N/A	109e2	N/A
Underground percolation	109f1	N/A	109f2	N/A
Well injection	109g1	N/A	109g2	N/A
Waste acceptance firm	109h1	N/A	109h2	N/A
Evaporation	109i1	One	109i2	0.010
Consumption	109j1	One	109j2	11.540
Other*	109k1	N/A	109k2	N/A
Facility discharges and volume Total Item 9.	109l1	One	109l2	13.050
*If there are discharges to 'other,' specify.	109m1			

10. Permits, Licenses and Applications
List all existing, pending or denied permits, licenses and applications related to discharges from this facility (see instructions).

110	Issuing Agency (a)	For Agency Use (b)	Type of Permit or License (c)	ID Number (d)	Date Filed YR/MO/DA (e)	Date Issued YR/MO/DA (f)	Date Denied YR/MO/DA (g)	Expiration Date YR/MO/DA (h)
1.	DA,CE		Discharge	074-0YL-2-000625	71/07/15			
2.	PR Planning		Use	71-7-0456		71/05/21	N/A	
	Board							
3.	PR Planning		Use	71-7-0455		71/05/21	N/A	
	Board							

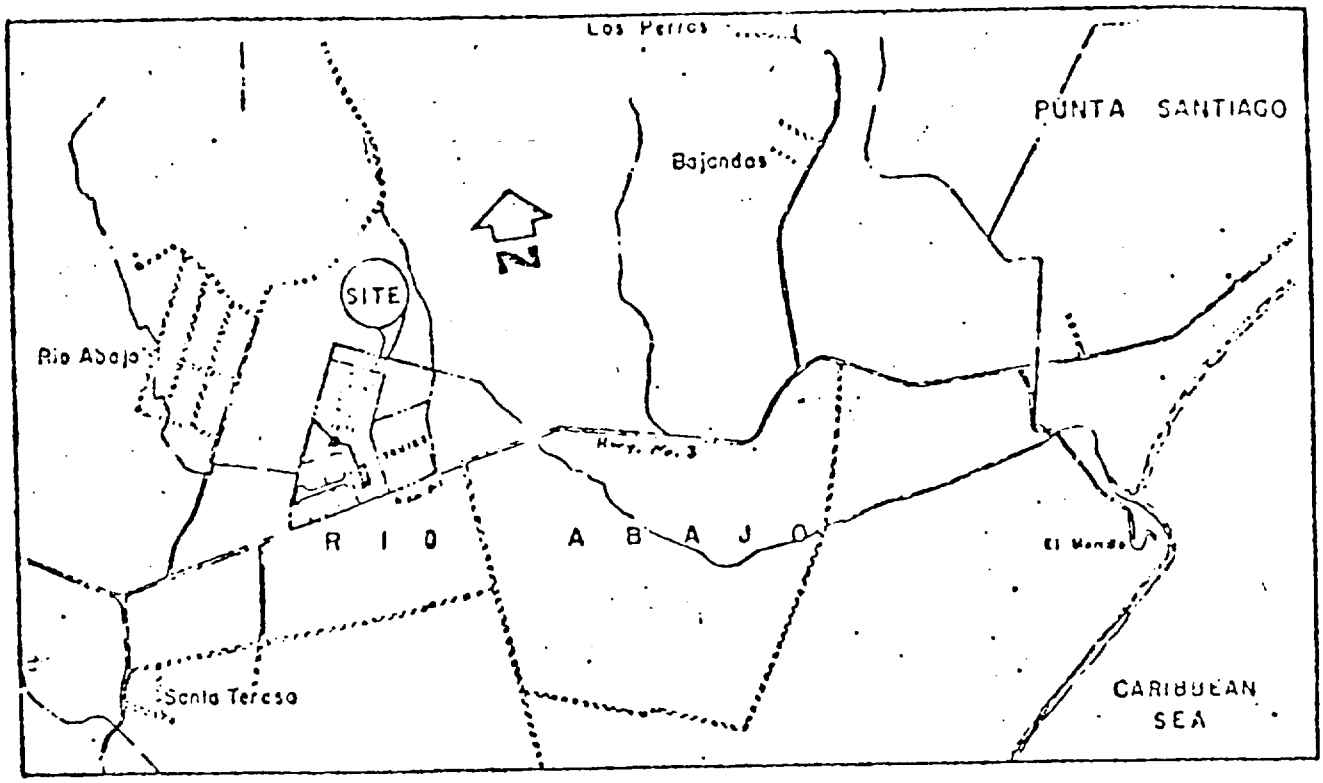
11. Maps and Drawings
Attach all required maps and drawings to the back of this application (see instructions)

12. Additional Information

112 Item Number	Information

FRO 002 0386

EPA Form 7550-23 (7-73)
GPO 865-708



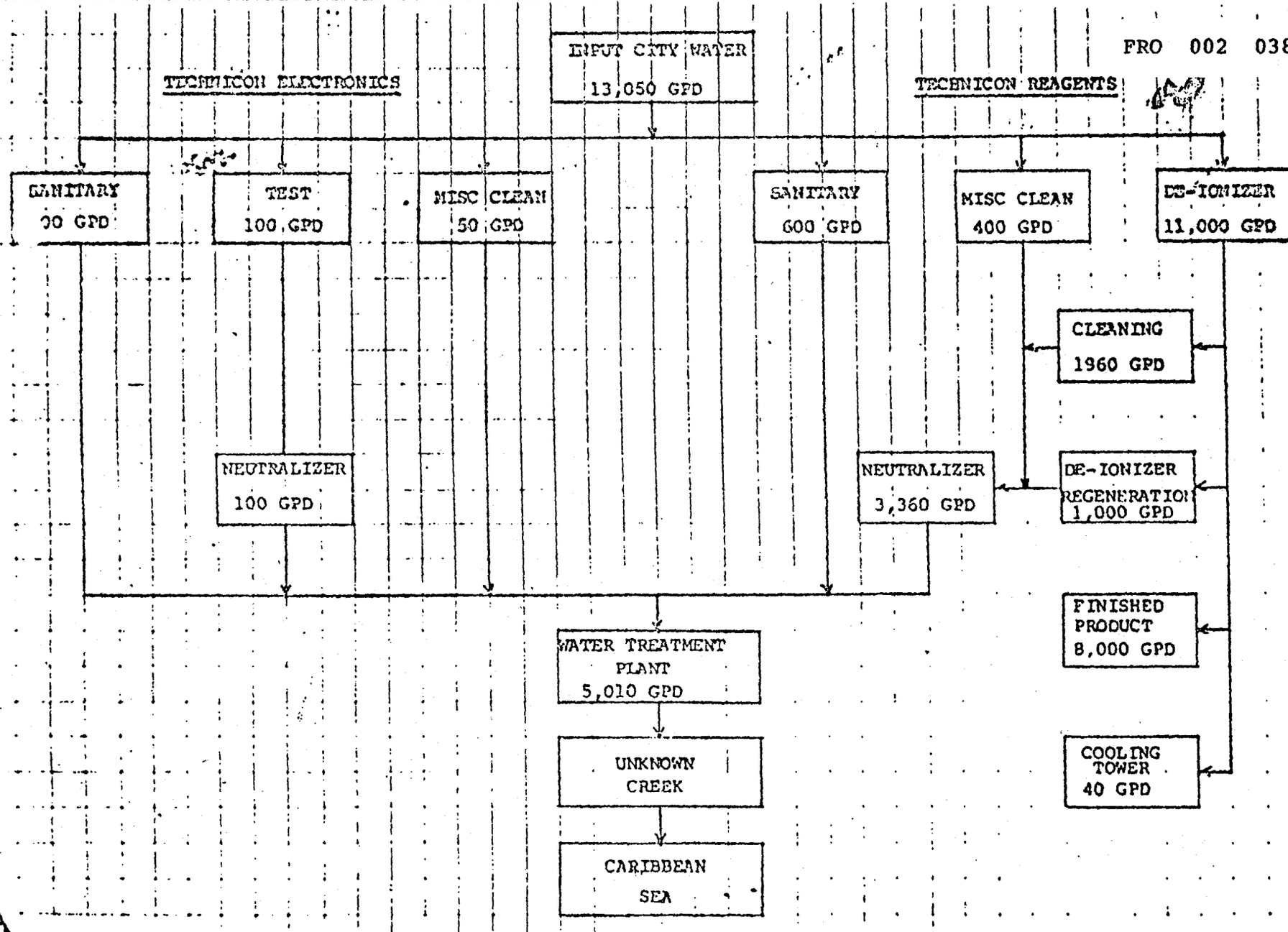
COPIED FROM U.S. GEOLOGICAL SURVEY MAP
HUMACAO QUADRANGLE, 1958
SCALE: 1:40,000

LOCATION MAP
TECHNICON ELECTRONICS
& REAGENTS

FRO 002 0387

DATE	DESCRIPTION	OPERATION	
DECEMBER 1977	TECHNICON CORPORATION	DAILY WATER CONSUMPTION	SR. LUIS ORTIZ

FRO 002 0388



STANDARD FORM C – MANUFACTURING AND COMMERCIAL

FOR AGENCY USE

SECTION II. BASIC DISCHARGE DESCRIPTION

Complete this section for each discharge indicated in Section I, Item 9, that is to surface waters. This includes discharges to municipal sewerage systems in which the wastewater does not go through a treatment works prior to being discharged to surface waters. Discharges to wells must be described where there are also discharges to surface waters from this facility. **SEPARATE DESCRIPTIONS OF EACH DISCHARGE ARE REQUIRED EVEN IF SEVERAL DISCHARGES ORIGINATE IN THE SAME FACILITY.** All values for an existing discharge should be representative of the twelve previous months of operation. If this is a proposed discharge, values should reflect best engineering estimates.

ADDITIONAL INSTRUCTIONS FOR SELECTED ITEMS APPEAR IN SEPARATE INSTRUCTION BOOKLET AS INDICATED. REFER TO BOOKLET BEFORE FILLING OUT THESE ITEMS.

1. Discharge Serial No. and Name		
a. Discharge Serial No. (see instructions)	201a	001
b. Discharge Name Give name of discharge, if any. (see instructions)	201b	Water Treatment Plant Output
c. Previous Discharge Serial No. If previous permit application was made for this discharge (see Item 4, Section I), provide previous discharge serial number.	201c	001
2. Discharge Operating Dates		
a. Discharge Began Date If the discharge described below is in operation, give the date (within best estimate) the discharge began.	202a	71 07 (YR MO)
b. Discharge to Begin Date If the discharge has never occurred but is planned for some future date, give the date (within best estimate) the discharge will begin.	202b	N/A (YR MO)
c. Discharge to End Date If discharge is scheduled to be discontinued within the next 5 years, give the date (within best estimate) the discharge will end.	202c	N/A (YR MO)
3. Engineering Report Available Check if an engineering report is available to reviewing agency upon request. (see instructions)	203	☐
4. Discharge Location Name the political boundaries within which the point of discharge is located.		
State	204a	Puerto Rico
County	204b	N/A
(if applicable) City or Town	204c	Humacao
5. Discharge Point Description Discharge is into (check one): (see instructions)		
Stream (includes ditches, arroyos, and other intermittent watercourses)	205a	☒ STR
Lake		☐ LKE
Ocean		☐ OCE
Municipal Sanitary Wastewater Transport System		☐ MTS
Municipal Combined Sanitary and Storm Transport System		☐ MCS

			Agency Use
State	204d		
County	204e		
(if applicable) City or Town	204f		

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This section contains 9 pages.

FOR AGENCY USE

Municipal Storm Water Transport System		☐ STS
Well (Injection)		☐ WEL
Other		☐ OTH
If "other" is checked, specify	205b	
6. Discharge Point — Lat/Long Give the precise location of the point of discharge to the nearest second. Latitude	206a	18 DEG 09 MIN 00 SEC
Longitude	206b	65 DEG 47 MIN 30 SEC
7. Discharge Receiving Water Name Name the waterway at the point of discharge. (see instructions)	207a	Unnamed Creek Flowing To Caribbean Sea
If the discharge is through an outfall that extends beyond the shoreline or is below the mean low water line, complete Item 8.	207b	For Agency Use: Major / Minor / Sub
	207c	For Agency Use: 303c
8. Offshore Discharge		
a. Discharge Distance from Shore	208a	N/A feet
b. Discharge Depth Below Water Surface	208b	N/A feet
9. Discharge Type and Occurrence		
a. Type of Discharge Check whether the discharge is continuous or intermittent. (see instructions)	209a	☒ (con) Continuous ☐ (int) Intermittent
b. Discharge Occurrence Days per Week Enter the average number of days per week (during periods of discharge) this discharge occurs.	209b	days per week
c. Discharge Occurrence — Months If this discharge normally operates (either intermittently, or continuously) on less than a year-around basis (excluding shutdowns for routine maintenance), check the months during the year when the discharge is operating. (see instructions)	209c	☒ JAN ☒ FEB ☒ MAR ☒ APR ☒ MAY ☒ JUN ☒ JUL ☒ AUG ☒ SEP ☒ OCT ☒ NOV ☒ DEC
Complete items 10 and 11 if "intermittent" is checked in Item 9.a. Otherwise, proceed to Item 12.		
10. Intermittent Discharge Quantity State the average volume per discharge occurrence in thousands of gallons.	210	N/A thousand gallons per discharge occurrence.
11. Intermittent Discharge Duration and Frequency		
a. Intermittent Discharge Duration Per Day State the average number of hours per day the discharge is operating.	211a	N/A hours per day
b. Intermittent Discharge Frequency State the average number of discharge occurrences per day during days when discharging.	211b	N/A discharge occurrences per day
12. Maximum Flow Period Give the time period in which the maximum flow of this discharge occurs.	212	From Jan. (month) to Dec. (month)

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FOR AGENCY USE

15. Waste Abatement

a. Waste Abatement Practices
Describe the waste abatement practices used on this discharge with a brief narrative. (see instructions)

215a Narrative: Aqueous wastes are treated in a package treatment plant where they are aerated. Followed by solids separation and digestion. Final effluent is chlorinated.

b. Waste Abatement Codes
Using the codes listed in Table II of the Instruction Booklet, describe the waste abatement processes for this discharge in the order in which they occur if possible.

215b

(1) PAERAT	(2) CNEUTR	(3) CODORC
(4) CNUTRI	(5) CCLDIS	(6) BACTIV
(7) SAEROB	(8)	(9)
(10)	(11)	(12)
(13)	(14)	(15)
(16)	(17)	(18)
(19)	(20)	(21)
(22)	(23)	(24)
(25)		

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FOR AGENCY USE

16. Wastewater Characteristics

Check the box beside each constituent which is present in the effluent (discharge water). This determination is to be based on actual analysis or best estimate.(see instructions)

Parameter 216	Present	Parameter 216	Present
Color 00080	X	Copper 01042	X
Ammonia 00610	X	Iron 01045	X
Organic nitrogen 00605	X	Lead 01051	X
Nitrite 00620	X	Magnesium 00927	X
Nitrate 00615	X	Manganese 01055	X
Phosphorus 00665	X	Mercury 71900	X
Sulfate 00945	X	Molybdenum 01062	X
Sulfide 00745	X	Nickel 01067	X
Sulfite 00740	X	Selenium 01147	X
Bromide 71870	X	Silver 01077	X
Chloride 00940	X	Potassium 00937	X
Cyanide 00720	X	Sodium 00929	X
Fluoride 00951		Thallium 01059	
Aluminum 01105		Titanium 01152	
Antimony 01097		Tin 01102	
Arsenic 01002	X	Zinc 01092	X
Beryllium 01012		Algicides* 74051	
Barium 01007	X	Chlorinated organic compounds* 74052	
Boron 01022	X	Pesticides* 74053	
Cadmium 01027	X	Oil and grease 00550	
Calcium 00916	X	Phenols 32730	X
Cobalt 01037		Surfactants 38260	
Chromium 01034	X	Chlorine 50060	X
Fecal coliform bacteria 74055		Radioactivity* 74050	

*Specify substances, compounds and/or elements in Item 26.

Pesticides (insecticides, fungicides, and rodenticides) must be reported in terms of the acceptable common names specified in *Acceptable Common Names and Chemical Names for the Ingredient Statement on Pesticide Labels*, 2nd Edition, Environmental Protection Agency, Washington, D.C. 20250, June 1972, as required by Subsection 162.7(b) of the Regulations for the Enforcement of the Federal Insecticide, Fungicide, and Rodenticide Act.

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FOR AGENCY USE

17. Description of Intake and Discharge

For each of the parameters listed below, enter in the appropriate box the value or code letter answer called for.(see instructions)

In addition, enter the parameter name and code and all required values for any of the following parameters if they were checked in Item 16; ammonia, cyanide, aluminum, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, phenols, oil and grease, and chlorine (residual).

Parameter and Code 217s	Influent		Effluent					
	Untreated Intake Water (Daily Average) (1)	In-Plant Treated Intake Water (Daily Average) (2)	Daily Average (3)	Minimum Value Observed or Expected During Discharge Activity (4)	Maximum Value Observed or Expected During Discharge Activity (5)	Frequency of Analysis (6)	Number of Analyses (7)	Sample Type (8)
Flow* Gallons per day 00056	13,050	11,000	3,006	1,002	5,010	Monthly	1	G
pH Units 00400	7.0	6.0		6.0	8.5	Daily	1	G
Temperature (winter) ° F 74028	75	77	82	81	83	Monthly	1	G
Temperature (summer) ° F 74027	78	77	84	83	85	Monthly	1	G
Biochemical Oxygen Demand (BOD 5-day) mg/l 00310		A	242.5	5.0	480	Monthly	1	G
Chemical Oxygen Demand (COD) mg/l 00340			418.5	65	772	Monthly	1	G
Total Suspended (nonfilterable) Solids mg/l 00530		A	236	38	212	Monthly	1	G
Specific Conductance micromhos/cm at 25° C 00095		1		600	800	Monthly	1	G
Settleable Matter (residue) ml/l 00545		A						

*Other discharges sharing intake flow (serial numbers).(see instructions)

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17. (Cont'd.)

Parameter and Code 217a	Influent		Effluent					
	Untreated Intake Water (Daily Average) (1)	In-Plant Treated Intake Water (Daily Average) (2)	Daily Average (3)	Minimum Value Observed or Expected During Discharge Activity (4)	Maximum Value Observed or Expected During Discharge Activity (5)	Frequency of Analysis (6)	Number of Analyses (7)	Sample Type (8)

18. Plant Controls. Check if the following plant controls are available for this discharge. 218

Alternate power source for major pumping facility. ☐ APS

Alarm or emergency procedure for power or equipment failure ☐ ALM

Complete Item 19 if discharge is from cooling and/or steam water generation and water treatment additives are used.

19. Water Treatment Additives. If the discharge is treated with any conditioner, inhibitor, or algicide, answer the following:

a. Name of Material(s) 219a _____

b. Name and address of manufacturer 219b _____

c. Quantity (pounds added per million gallons of water treated). 219c _____

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d. Chemical composition of these additives (see instructions). | 219d | _____

Complete Items 20-25 if there is a thermal discharge (e.g., associated with a steam and/or power generation plant, steel mill, petroleum refinery, or any other manufacturing process) and the total discharge flow is 10 million gallons per day or more. (see instructions)

N/A

20. Thermal Discharge Source Check the appropriate item(s) indicating the source of the discharge. (see instructions) | 220

- Boiler Blowdown ☐ BLBD
- Boiler Chemical Cleaning ☐ BCCL
- Ash Pond Overflow ☐ APOF
- Boiler Water Treatment — Evaporator Blowdown ☐ EPBD
- Oil or Coal Fired Plants — Effluent from Air Pollution Control Devices ☐ OCFP
- Condense Cooling Water ☐ COND
- Cooling Tower Blowdown ☐ CTBD
- Manufacturing Process ☐ MFPR
- Other ☐ OTHR

21. Discharge/Receiving Water Temperature Difference

Give the maximum temperature difference between the discharge and receiving waters for summer and winter operating conditions. (see instructions)

- Summer | 221a | _____ °F.
- Winter | 221b | _____ °F.

22. Discharge Temperature, Rate of Change Per Hour | 222 | _____ °F./hour

Give the maximum possible rate of temperature change per hour of discharge under operating conditions. (see instructions)

23. Water Temperature, Percentile Report (Frequency of Occurrence)

In the table below, enter the temperature which is exceeded 10% of the year, 5% of the year, 1% of the year and not at all (maximum yearly temperature). (see instructions)

Frequency of occurrence		10%	5%	1%	Maximum
a. Intake Water Temperature (Subject to natural changes)	223a	°F	°F	°F	°F
b. Discharge Water Temperature	223b	°F	°F	°F	°F

24. Water Intake Velocity (see instructions) | 224 | _____ feet/sec.

25. Retention Time Give the length of time, in minutes, from start of water temperature rise to discharge of cooling water. (see instructions) | 225 | _____ minutes

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FOR AGENCY USE

26. Additional Information

226 Item	Information

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SECTION II. PLANT PROCESS AND DISCHARGE DESCRIPTION

Discharge described below is: a. Present [X] b. Proposed now or changed [ ]

2. Implementation schedule [ ]

(Office use only) 074-0YL-2-000625

Name of corporate boundaries within which the point of discharge is located.

3. State: PUERTO RICO

4. County: _____

5. City or Town: HUMACAO

6. Discharge Serial No.: 001

State the precise location of the point of discharge.

7. Latitude 18 Degrees; 09 Min; 00 Sec.

8. Longitude 65 Degrees; 47 Min; 30 Sec.

9. Name of waterway at the point of discharge.

UNNAMED CREEK FLOWING TO CARIBBEAN SEA

10. Has application for water quality certification or description of impact been made? If so, give date: [illegible]

Date: AUG 27 71 (mo day yr)

Check if certificate is attached to form [ ]

Name Issuing Agency: Environmental Quality Board

11. Narrative description of activity (include terms of general 4-digit Standard Industrial Classification, and specific manufacturing process).

Electronic instruments for industrial and clinical analysis are assembled from purchased components. (SIC 36)

Reagent solutions are prepared from purchased chemicals. (SIC2833)

12. Standard industrial classification number.	13. Principal product.	14. Amount of principal product produced per day.
SIC 36	Electronic Instruments	50 UNITS/DAY
SIC 2833	Reagent Solutions	4500 GALS/DAY

15. Principal raw material.	16. Amount of principal raw material consumed per day.	17. Number of batch discharges per day.
NA	NA	NA

18. Average gallons per batch discharge.	19. Date discharge began.	20. Date discharge will begin.
NA	APR 26 71 (mo day yr)	mo day yr

21. Describe waste abatement practices.

PAERAT, PSEDIM, BSOLID, TSCHLO,

Aqueous wastes are treated in a package treatment plant where they are aerated, followed by solids separation and digestion. Final effluent is chlorinated.

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PHYSICAL DESCRIPTION OF INTAKE WATER AND DISCHARGE

Intake | Discharge

(Office use only) 014-041-2-000625

Discharge Serial No. 001

Parameter and (Code)	UNTREATED INTAKE WATER (1)	TREATED INTAKE WATER (2)	AVERAGE (DAILY) (3)	MINIMUM (OPERATING YEAR) (4)	MAXIMUM (OPERATING YEAR) (5)	SAMPLE FREQUENCY (6)	CONTINUOUS MONITORING (7)
Flow (Gallons per day) 00056	9,200	NA	7,200	0	8,000	OTHER	ABS
pH 00400	8.05		7.42	7.00	8.05	"	"
Temperature (Winter) (°F) 74028	76	"	78	76	80	"	"
Temperature (Summer) (°F) 74027	79	"	81°	79	82	"	"

23. DISCHARGE CONTENTS

PARAMETER	PRESENT	ABSENT	PARAMETER	PRESENT	ABSENT	PARAMETER	PRESENT	ABSENT
Color 00000	X		Aluminum 01105		X	Nickel 01067		X
Turbidity 00070	X		Antimony 01097		X	Selenium 01147		X
Radioactivity 74050		X	Arsenic 01002		X	Silver 01077		X
Hardness 00900	X		Beryllium 01012		X	Potassium 00937	X	
Solids 00500	X		Barium 01007		X	Sodium 00929	X	
Ammonia 00610	X		Boron 01022		X	Titanium 01152		X
Organic Nitrogen 00605	X		Cadmium 01027		X	Tin 01102		X
Nitrate 00620	X		Calcium 00916	X		Zinc 01092		X
Nitrite 00615		X	Cobalt 01037		X	Algicides 74051		X
Phosphorus 00665	X		Chromium 01034		X	Oil and Grease 00550		X
Sulfate 00945	X		Copper 01042	X		Phenols 32730		X
Sulfide 00745		X	Iron 01045	X		Surfactants 38260	X	
Sulfite 00740		X	Lead 01051		X	Chlorinated Hydrocarbons 74052		X
Bromide 71870		X	Magnesium 00927		X	Pesticides 74053		X
Chloride 00940	X		Manganese 01055		X	Fecal Streptococci Bacteria 74054		X
Cyanide 00720		X	Mercury 71900		X	Coliform Bacteria 74056		X
Fluoride 00951		X	Molybdenum 01062		X			

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Have all known hazardous or potentially hazardous substances in your plant been inventoried?

[X] Yes [ ] No

24b. If yes, have steps been taken to insure that there exists no possibility of any such known hazardous or potentially hazardous substance entering this discharge?

[X] Yes [ ] No

25. Remarks.

SINGLE GRAB SAMPLE FROM TREATMENT SYSTEM DISCHARGE.

* VALUES NOT AVAILABLE FROM WATER SUPPLIER.

The information above completes the basic reporting requirements which are required of all applicants. Those applicants whose discharge results from an activity included within any of the Standard Industrial Classification Code (SIC Code) categories listed below must complete Part A of this form as well.

CRITICAL INDUSTRIAL GROUPS

SIC	098	FISH HATCHERIES, FARMS, AND PRESERVES
SIC	10-14	DIVISION B – MINING
SIC	201	MEAT PRODUCTS
SIC	202	DAIRY PRODUCTS
SIC	203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)
SIC	2031, 2036	CANNED AND CURED FISH AND SEAFOODS; FRESH OR FROZEN PACKAGED FISH AND SEAFOODS
SIC	204	GRAIN MILL PRODUCTS
SIC	206	SUGAR
SIC	207	CONFECTIONARY AND RELATED PRODUCTS
SIC	208	BEVERAGES
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS
SIC	22	TEXTILE MILL PRODUCTS
SIC	23	APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS
SIC	242	SAWMILLS AND PLANING MILLS
SIC	2432	VENEER AND PLYWOOD
SIC	2491	WOOD PRESERVING
SIC	26	PAPER AND ALLIED PRODUCTS
SIC	281	INDUSTRIAL INORGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2818)
SIC	2818	INDUSTRIAL ORGANIC CHEMICALS
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MAN-MADE FIBERS, EXCEPT GLASS
SIC	283	DRUGS
SIC	284	SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS
SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	2871	FERTILIZERS
SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRICULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC	2891	ADHESIVES AND GELATIN
SIC	2892	EXPLOSIVES
SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIE
SIC	3011, 3069	TIRES AND INNER TUBES; FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC	3079	MISCELLANEOUS PLASTICS PRODUCTS
SIC	311	LEATHER TANNING AND FINISHING
SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS
SIC	332	IRON AND STEEL FOUNDRIES
SIC	333 334	PRIMARY SMELTING AND REFINING OF NONFERROUS METALS; SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC	336	NONFERROUS FOUNDRIES
SIC	347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC	35	MACHINERY, EXCEPT ELECTRICAL
SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES
SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC	3731	SHIP BUILDING AND REPAIRING
SIC	491	ELECTRIC COMPANIES AND SYSTEMS
SIC	493	COMBINATION COMPANIES AND SYSTEMS

FRO 002 0399

PART A

(Note: Submission of Part A is required of all applicants whose processes are listed on page 3 above.)

(Office use only) 074-076-2-000625

Discharge Serial No. 001

INFORMATION REQUIRED OF SPECIFIED INDUSTRIES

PARAMETER AND CODE	Intake: (DAILY AVG. CONCENTRATION) UNTREATED INTAKE WATER (1)	Intake: (DAILY AVG. CONCENTRATION) TREATED INTAKE WATER (2)	Discharge: MAXIMUM CONCENTRATION PER PROCESS UNIT (3)	Discharge: MAXIMUM POUNDS PER DAY PER DAY (4)	Discharge: DAILY AVG. CONCENTRATION (5)	Discharge: AVERAGE POUNDS PER DAY (6)	Discharge: SAMPLE TYPE (7)	Discharge: SAMPLE FREQUENCY (8)	Discharge: METHOD OF ANALYSIS (9)	Discharge: CONTINUOUS MONITORING (10)	Discharge: (11)
ALKALINITY (as Ca CO_3) 00410	90	NA	150	N/A	10	137	8.2	AVER.	OTHER	STAND. METHODS	ABS
B.O.D. 5-DAY 00310	*	"	10	"	1.0	0	0	"	"	"	"
CHEMICAL OXYGEN DEMAND (C.O.D.) 00340	*	"	80	"	5.3	62	3.7	"	"	"	"
TOTAL SOLIDS 00500	181	"	700	"	46	612	36.7	"	"	"	"
TOTAL DISSOLVED SOLIDS 70300	181	"	650	"	43	580	34.8	"	"	"	"
TOTAL SUSPENDED SOLIDS 00530	0	"	50	"	3	32	1.9	"	"	"	"
TOTAL VOLATILE SOLIDS 00505	58	"	0	"	0	0	0	"	"	"	"
AMMONIA (as N) 00610	*	"	1.50	"	0.10	1.17	0.07	"	"	"	"
KJELDAHL NITROGEN 00625	*	"	9.00	"	0.60	6.86	0.41	"	"	"	"
NITRATE (as N) 00620	0.08	"	3.00	"	0.20	2.0	0.12	"	"	"	"
PHOSPHORUS TOTAL (as P) 00665	0.02	"	1.00	"	0.07	0.78	0.05	"	"	"	"

TABLE A

Guide for Completion of Part A 07 . 0/L-7 . 020525

PARAMETER & UNITS	METHOD	REFERENCES			SIGNIFICANCE IN REPORTING DATA
		STANDARD METHODS 13TH ED. 1971	A.S.T.M. STANDARDS Pt. 23 1970	W.Q.O. METHODS 1971	
ALKALINITY AS $CaCO_3$ Mg/liter	ELECTROMETRIC TITRATION TECHNICON METHYL ORANGE METHOD	p. 370	p. 154	p. 6	X.
B.O.D. 5-DAY Mg/liter	MODIFIED WINKLER METHOD OR PROBE METHOD	p. 489	p. 712	p. 15	X.
CHEMICAL OXYGEN DEMAND (C.O.D.) Mg/liter	DICHROMATE REFLUX METHOD	p. 495	–	p. 17	X.
TOTAL SOLIDS Mg/liter	GRAVIMETRIC, 105°C. METHOD	p. 535	–	p. 280	X.
TOTAL DISSOLVED (FILTERABLE) SOLIDS Mg/liter	GLASS FIBER FILTRATION METHOD, 180°C.	p. 539	–	p. 275	X.
TOTAL SUSPENDED (NON-FILTERABLE) SOLIDS Mg/liter	GLASS FIBER FILTRATION METHOD, 103-105°C.	p. 537	–	p. 278	X.
TOTAL VOLATILE SOLIDS Mg/liter	GRAVIMETRIC METHOD 550°C.	p. 539	–	p. 282	X.
AMMONIA (as N) Mg/liter	DISTILLATION-NESSLERIZATION METHOD OR TECHNICON-DIGESTION & PHENOLATE METHOD	p. 453	–	p. 134	.XX
KJELDAHL NITROGEN Mg/liter	DIGESTION-DISTILLATION METHOD OR TECHNICON-DIGESTION & PHENOLATE METHOD	p. 469	–	p. 149	.XX
NITRATE (as N) Mg/liter	BRUCINE SULFATE METHOD OR TECHNICON-HYDRAZINE REDUCTION METHOD	p. 461	–	p. 170	.XX
TOTAL PHOSPHORUS (as P) Mg/liter	PERSULFATE DIGESTION & SINGLE REAGENT METHOD OR TECHNICON-MANUAL DIGESTION & SINGLE REAGENT OR STANNOUS CHLORIDE	p. 526	–	p. 235	.XX

PART B DISCHARGE DESCRIPTION

(Note: Submission of Part B is required of all applicants who are required to submit Part A. Only those parameters specifically indicated in the instructions are to be reported by a particular industry)

(Office use only) 074-076-7-000625

Discharge Serial No. 001

B-1. PHYSICAL AND BIOLOGICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-1)

	Intake	Discharge					
PARAMETER AND CODE	(1) UNTREATED INTAKE WATER	(2) TREATED INTAKE WATER	(3) AVERAGE (DAILY)	(4) MINIMUM (OPERATING YEAR)	(5) MAXIMUM (OPERATING YEAR)	(6) SAMPLE FREQUENCY	(7) CONTINUOUS MONITORING
COLOR 00080	5	N A	107	X	120	0	A
SPECIFIC CONDUCTANCE 00095	--	--	--	--	--	--	--
TURBIDITY 00070	5	N A	7.5	X	10	0	A
FECAL STREPTOCOCCI BACTERIA 74054	--	--	--	X	--	--	--
FECAL COLIFORM BACTERIA 74055	--	--	--	X	--	--	--
TOTAL COLIFORM BACTERIA 74056	0	N A	0	X	0	0	A

FRO 002 0402

PART B

(Office use only)

024-048-7-000625

Discharge Serial No.

001

B-2. CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake	Discharge										
PARAMETER AND CODE	UNTREATED INTAKE WATER (1)	TREATED INTAKE WATER (2)	MAXIMUM CONCENTRATION (3)	MAXIMUM POUNDS PER DAY PER PROCESS UNIT (4)	MAXIMUM POUNDS PER DAY (5)	DAILY AVG. CONCENTRATION (6)	AVERAGE POUNDS PER DAY (7)	SAMPLE TYPE (8)	SAMPLE FREQUENCY (9)	METHOD OF ANALYSIS (10)	CONTINUOUS MONITORING (11)
ACIDITY (as $CaCO_3$) 00435	--	--	--	--	--	--	--	-	-	-	-
TOTAL ORGANIC CARBON (T.O.C.) 00680	--	--	--	--	--	--	--	-	-	-	-
TOTAL HARDNESS 00900	124	N A	180	N/A	12	177	10.6	0	0	S	A
NITRITE (as N) 00615	--	--	--	--	--	--	--	-	-	-	-
ORGANIC NITROGEN 00605	*	N A	7.50	N/A	0.50	5.69	0.34	0	0	S	A
PHOSPHORUS-ORTHO (as P) 70507	0.02	N A	1.00	N/A	0.07	0.78	0.05	0	0	S	A
SULFATE 00945	21.5	N A	80	N/A	5.3	66	3.9	0	0	S	A
SULFIDE 00745	A	N/A	0 --	N/A	0	A	0 --	-	-	-	-
SULFITE 00740	--	--	--	--	--	--	--	--	-	-	-
BROMIDE 71870	A	N/A	-0	N/A	0	A	0	-	-	-	-

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PART B

(Office use only)
074-0YL-2-000625

Discharge Serial No.
001

B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake		Discharge										
PARAMETER AND CODE	UNTREATED INTAKE WATER (1)	TREATED INTAKE WATER (2)	MAXIMUM CONCENTRATION (3)	MAXIMUM POUNDS PER DAY PER PROCESS UNIT (4)	MAXIMUM POUNDS PER DAY (5)	DAILY AVG. CONCENTRATION (6)	AVERAGE POUNDS PER DAY (7)	SAMPLE TYPE (8)	SAMPLE FREQUENCY (9)	METHOD OF ANALYSIS (10)	CONTINUOUS MONITORING (11)
CHLORIDE 00940	11	N A	12	N/A	0.80	5	0.30	0	0	S	A
CYANIDE 00720	A	N/A	0	N/A	0	A	0	-	-	-	-
FLUORIDE 00951	--	--	--	--	--	--	--	-	-	-	-
ALUMINUM-TOTAL 01105	*	N/A	0	N/A	0	A	0	-	-	-	-
ANTIMONY-TOTAL 01097	--	--	--	--	--	--	--	-	-	-	-
ARSENIC-TOTAL 01002	--	--	--	--	--	--	--	-	-	-	-
BARIUM-TOTAL 01007	--	--	--	--	--	--	--	-	-	-	-
BERYLLIUM-TOTAL 01012	--	--	--	--	--	--	--	-	-	-	-
BORON-TOTAL 01022	--	--	--	--	--	--	--	-	-	-	-
CADMIUM-TOTAL 01027	--	--	--	--	--	--	--	-	-	-	-

ENG FORM 4245-1

PART B

(Office use only)
074-076-2-00062.5

B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Discharge Serial No. 001

PARAMETER AND CODE	Intake: UNTREATED INTAKE WATER (1)	Intake: TREATED INTAKE WATER (2)	Discharge: MAXIMUM CONCENTRATION (3)	Discharge: MAXIMUM POUNDS PER DAY PER PROCESS UNIT (4)	Discharge: DAILY AVG. CONCENTRATION (5)	Discharge: AVERAGE POUNDS PER DAY (6)	Discharge: SAMPLE TYPE (7)	Discharge: SAMPLE FREQUENCY (8)	Discharge: METHOD OF ANALYSIS (9)	Discharge: CONTINUOUS MONITORING (10)
CALCIUM-TOTAL 00916	41	N A	70	N/A	4.6	56	3.3	0	0	S
CHROMIUM-TOTAL 01034	A	N/A	0	N/A	0	A	0	-	-	-
COBALT-TOTAL 01037	--	--	--	--	--	--	--	-	-	-
COPPER-TOTAL 01042	*	N A	200	N/A	0.01	180	0.01	0	0	S
IRON-TOTAL 01045	0	N A	300	N/A	0.02	200	0.01	0	0	S
LEAD-TOTAL 01051	0	N/A	0	N/A	0	A	0	-	-	-
MAGNESIUM-TOTAL 00927	5.2	N/A	5.2	N/A	0.35	A	0	-	-	-
MANGANESE-TOTAL 01055	*	N/A	0	N/A	0	A	0	-	-	-
MERCURY-TOTAL 71900	0	N/A	0	N/A	0	A	0	-	-	-
MOLYBDENUM-TOTAL 01062	--	--	--	--	--	--	--	-	-	-

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PART B

(Office use only)
074-04L-2-000625

Discharge Serial No.
001

B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

	Intake	Discharge										
PARAMETER AND CODE	UNTREATED INTAKE WATER (1)	TREATED INTAKE WATER (2)	MAXIMUM CONCENTRATION (3)	MAXIMUM POUNDS PER DAY PER PROCESS UNIT (4)	DAILY AVG. CONCENTRATION (5)	AVERAGE POUNDS PER DAY (6)	SAMPLE TYPE (7)	SAMPLE FREQUENCY (8)	METHOD OF ANALYSIS (9)	CONTINUOUS MONITORING (10)	(11)
NICKEL-TOTAL 01067	*	N/A	0.	N/A	0	A	0	-	-	-	-
POTASSIUM-TOTAL 00937	1.84 Na+K	N A	10	N/A	0.66	8.50	0.5	0	0	W	A
SELENIUM-TOTAL 01147	--	--	--	--	--	--	--	-	-	-	-
SILVER-TOTAL 01077	--	--	--	--	--	--	--	-	-	-	-
SODIUM-TOTAL 00929	1.84 Na+K	N A	80	N/A	5.3	64	3.8	0	0	W	A
THALLIUM-TOTAL 01059	--	--	--	--	--	--	--	-	-	-	-
TIN-TOTAL 01102	--	--	--	--	--	--	--	-	-	-	-
TITANIUM-TOTAL 01152	--	--	--	--	--	--	--	=	-		-
ZINC-TOTAL 01092	*	N/A	0	N/A	0.	A	0.	-	-		-
OIL AND GREASE 00550	--	--	--	--	--	--	--	-	-		-

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PART B

(Office use only)
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Discharge Serial No.
001

B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2)

Intake		Discharge									
PARAMETER AND CODE	(1) UNTREATED INTAKE WATER	(2) TREATED INTAKE WATER	(3) MAXIMUM CONCENTRATION	(4) MAXIMUM POUNDS PER DAY PER PROCESS UNIT	(5) MAXIMUM POUNDS PER DAY	(6) DAILY AVG. CONCENTRATION	(7) AVERAGE POUNDS PER DAY	(8) SAMPLE TYPE	(9) SAMPLE FREQUENCY	(10) METHOD OF ANALYSIS	(11) CONTINUOUS MONITORING
PHENOLS 32730	A	N/A	0	N/A	0	A	0	-	-	-	-
SURFACTANTS 36250	A	N/A	0	N/A	0	0	0	0	0	S	A
ALGICIDES* 74051			--	--	--	--	--	-	-	-	-
CHLORINATED HYDROCARBONS* (EXCEPT PESTICIDES) 74052	A	N/A	0	N/A	0	A	0	--	-	-	-
PESTICIDES* 74053	--	--	--	--	--	--	--	-	-	-	-

*Name specific compound(s) and fill in the required data for each. Use extra blanks at the end of the form and the "Remarks" space as necessary.

FRO 002 0407

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Discharge Serial No. 001

B-3. RADIOACTIVE PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-3)

Intake	Discharge						
PARAMETER AND CODE	(1) UNTREATED INTAKE WATER	(2) TREATED INTAKE WATER	(3) AVERAGE (DAILY)	(4) MINIMUM (OPERATING YEAR)	(5) MAXIMUM (OPERATING YEAR)	(6) SAMPLE FREQUENCY	(7) CONTINUOUS MONITORING
ALPHA-TOTAL 01501	A	N/A	A		0		
ALPHA COUNTING ERROR 01502	A	N/A	A		0		
BETA-TOTAL 03501	A	N/A	A		0		
BETA COUNTING ERROR 03502	A	N/A	A		0		
GAMMA-TOTAL 05501	A	N/A	A		0		
GAMMA COUNTING ERROR 05502	A	N/A	A		0		
TRITIUM-TOTAL 07000	A	N/A	A		0		
TRITIUM COUNTING ERROR 07001	A	N/A	A		0		

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B-4. REMARKS

SINGLE GRAB SAMPLE

*Value not available from water supplier.