

**APPENDIX 5**  
**Suggested Notice of Intent (NOI) Form**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - REGION 1**

**Request for General Permit Authorization to Discharge Noncontact Cooling Water  
to be covered by the Noncontact Cooling Water General Permit (NCCWGP)  
NPDES General Permits No. MAG250000 and NHG250000**

**A. Facility Information**

1. Indicate applicable General Permit:

MAG250000

NHG250000

2. Facility Information/Location:

Facility Name FALL RIVER TOOL + DIE CO. INC.  
Street/PO Box 994 JEFFERSON ST City FALL RIVER  
State MA Zip Code 02721  
Latitude 41° 40' 21" N Longitude 71° 08' 44" W

Type of Business NON FERROUS METAL DIE CASTING FOUNDRY, PLASTICS PRODUCT MFG, SPECIAL DIE & TOOL SHOP  
SIC Code(s) 331523, 326199, 333514

3. Facility Mailing address (if different from Location Address):

Facility Name FALL RIVER TOOL + DIE CO. INC.  
~~Street~~/PO Box 4070 FLINT STATION City FALL RIVER  
State MA. Zip Code 02723

4. Facility Owner:

Name FALL RIVER TOOL + DIE CO. INC.  
E-mail FALLRIVERTD@AOK.COM  
~~Street~~/PO Box 4070 FLINT STATION City FALL RIVER  
State MA. Zip Code 02723  
Contact Person JOSEPH FONTAINE Tel 508-674-4621  
Owner is (check one): Federal  State  Tribal  Private   
Other (describe) \_\_\_\_\_

5. Facility Operator (if different from above):

Legal Name \_\_\_\_\_  
E-mail \_\_\_\_\_  
Street/PO Box \_\_\_\_\_ City \_\_\_\_\_ Zip Code \_\_\_\_\_  
State \_\_\_\_\_ Contact \_\_\_\_\_ Telephone \_\_\_\_\_

6. Current permit coverage:    yes     no

- a) Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI?    yes     no     If Yes, permit number MAG 250017
- b) Is the facility covered by an individual NPDES permit for other discharges?    yes     no   
If yes, Permit Number: \_\_\_\_\_
- c) Is there a pending NPDES application on file with EPA for this discharge?    yes     no   
If yes, date of submittal: \_\_\_\_\_ and permit number, if available \_\_\_\_\_

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

**B. Map attached?  Discharge Information** (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: SUCKER BROOK  
 Freshwater  Marine Water ;    State Water Quality Classification Class B  
 Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) STREAM/BROOK

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s).

**Line drawing or flow diagram attached?**

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) COOLING OF MANUFACTURING MACHINERY AND PRODUCTION PROCESS.

4. Number of Outfalls 6 Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at [http://www.epa.gov/tri/reporting/siting\\_tool](http://www.epa.gov/tri/reporting/siting_tool). Attach additional pages if necessary (Pg. 2B)

Outfall # <u>1</u>	Latitude <u>41° 40' 21" N</u>	Longitude <u>71° 8' 45" W</u>
Outfall # <u>2</u>	Latitude <u>41° 40' 21" N</u>	Longitude <u>71° 8' 45" W</u>
Outfall # <u>3</u>	Latitude <u>41° 40' 21" N</u>	Longitude <u>71° 8' 45" W</u>

5. For each Outfall provide the following discharge information:

Outfall # 1

- a) Maximum Daily Flow .006 MGD    Average Monthly Flow .002 MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**
- b) Maximum Daily Temperature 83 °F    Average Monthly Temperature 68 °F
- c) Maximum Monthly pH 8.3 s.u.    Minimum Monthly pH 6.5 s.u.
- d) Outfall's discharge is:    continuous     intermittent     seasonal

Outfall # 2

- a) Maximum Daily Flow .003 MGD    Average Monthly Flow .001 MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**
- b) Maximum Daily Temperature 83 °F    Average Monthly Temperature 68 °F
- c) Maximum Monthly pH 8.3 s.u.    Minimum Monthly pH 6.5 s.u.
- d) Outfall's discharge is:    continuous     intermittent     seasonal

Outfall # 3

a) Maximum Daily Flow .001 MGD Average Monthly Flow .0002 MGD

**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**

b) Maximum Daily Temperature 83 °F Average Monthly Temperature 68 °F

c) Maximum Monthly pH 8.3 s.u. Minimum Monthly pH 6.5 s.u.

d) Outfall's discharge is: continuous  intermittent  seasonal

6. Is the source of the NCCW potable water? yes  no

If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

CONTINUED  
ON PAGE  
2B

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.04 MGD  
Attach any calculation sheets used to support stream flow and/or dilution calculations.

**8. For facilities that discharge to Massachusetts surface waters:**

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached?

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? yes  no

If yes, provide the name of ACEC \_\_\_\_\_

c) Does the discharge occur to an Outstanding Resource Water (ORW)? yes  no

If yes, enclose antidegradation waiver approval provided by MassDEP.

**Note: See Appendix 1 of the General Permit for more information on ACEC.**

**C. Chemical Additives**

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? yes  no

2. If yes, attach a list of each chemical used and include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/L) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC<sub>50</sub> in percent for typically acceptable aquatic organism).

3. Was this list submitted with the facility's 2014 NCCWGP NOI? yes  no

**D. NCCW Source Water Information**

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).

Source MUNICIPAL WATER SUPPLY Name of Source Water NORTH WATUPPA POND / CITY OF FALL RIVER  
CITY OF FALL RIVER

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)? yes  no  If yes, registration number 42609501

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.

Test results attached?

4. Does the facility use both a primary and backup source of NCCW? yes  no  If yes, **attach information** that identifies and describes the primary and backup sources of NCCW and how often any backup supply was used in the past five years.

Outfall # 4 Latitude 41° 40' 21" N  
 Outfall # 5 Latitude 41° 40' 21" N  
 Outfall # 6 Latitude 41° 40' 21" N

Longitude 71° 8' 44" W  
 Longitude 71° 8' 44" W  
 Longitude 71° 8' 44" W

5. For each Outfall provide the following discharge information:

Outfall # 4

- a) Maximum Daily Flow .003 MGD      Average Monthly Flow .001 MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**  
 b) Maximum Daily Temperature 83° °F      Average Monthly Temperature 70 °F  
 c) Maximum Monthly pH 8.3 s.u.      Minimum Monthly pH 6.5 s.u.  
 d) Outfall's discharge is: continuous  intermittent  seasonal

Outfall # 5

- a) Maximum Daily Flow .003 MGD      Average Monthly Flow .001 MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**  
 b) Maximum Daily Temperature 83° °F      Average Monthly Temperature 70 °F  
 c) Maximum Monthly pH 8.3 s.u.      Minimum Monthly pH 6.5 s.u.  
 d) Outfall's discharge is: continuous  intermittent  seasonal

Outfall # 6

- a) Maximum Daily Flow .001 MGD      Average Monthly Flow .0002 MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**  
 b) Maximum Daily Temperature 83 °F      Average Monthly Temperature 70 °F  
 c) Maximum Monthly pH 8.3 s.u.      Minimum Monthly pH 6.5 s.u.  
 d) Outfall's discharge is: continuous  intermittent  seasonal

**E. Best Technology Available for Cooling Water Intake Structures (CWISs)**

If the facility's non-contact cooling water discharge is covered by this General Permit and the facility **withdraws water from a surface water**, it is subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit?    yes     no
- a) If no, explain WE DO NOT WITHDRAW SURFACE WATER and skip to F.
- b) If yes, submit a facility-specific BTA description that accurately describes the facility's operations and practices, including, but not limited to, the measures described in Part 5.5 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet.

Include in your description:

- a) Measures to meet the General Permit Part 4.2.1 general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrates; or the required alternative monitoring plan frequency and/or protocol.
- b) The attributes of the current CWIS.
- c) The design measures of the CWIS.
- d) The operational measures of the CWIS.
- e) The historical occurrence of impinged fish for the past five years.
- f) If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system.
- g) Other components to reduce impingement and/or entrainment of aquatic life.

2. Provide the following information for each CWIS to support your attached facility-specific BTA description:

- a) The design capacity of the of the CWIS \_\_\_\_\_ MGD
- b) Maximum monthly average intake of the CWIS during the previous five years \_\_\_\_\_ MGD
- c) The month and year in which this flow reported in 2.b. occurred \_\_\_\_\_
- d) The maximum through-screen design intake velocity \_\_\_\_\_ feet/second (fps)

3. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

- a) The source water's annual mean flow in MGD as available from USGS or other appropriate source \_\_\_\_\_ MGD
- b) The design intake flow as a % of the source water's annual mean flow \_\_\_\_\_ %  
Attach calculations if equal to or less than 5% of annual mean flow.
- c) The source water's 7Q10 \_\_\_\_\_ MGD
- d) The design intake flow as a percent of the source water's 7Q10 \_\_\_\_\_ %

4. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?**

**F. Endangered Species Act Eligibility Information**

If your facility is listed in Table A as one of the 37 facilities covered under the 2014 NCCW GP, check this box.  Your ESA consultation responsibilities have been satisfied by EPA. Proceed to Part G.

If your facility is not included as one of the 37 facilities covered under the 2014 NCCW GP, complete this Part.

Using the instructions in Appendix 2, Parts B(1) and B(2) of the NCCW GP, which of the following criteria apply to your facility?

United States Fish and Wildlife Service (USFWS) Criteria: A  B  C

National Oceanic and Atmospheric Administration Fisheries Service (NOAA Fisheries) Criteria: A  B  C

- 1. If you selected USFWS criterion B, has consultation with the USFWS been completed? yes  no   
 If you selected NOAA Fisheries criterion B, has consultation with NOAA Fisheries been completed?  
 yes  no
- 2. If consultation with USFWS and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?  
 USFWS yes  no  N/A  NOAA Fisheries yes  no  N/A
- 3. Attach documentation of ESA eligibility for USFWS and NOAA Fisheries as required at Appendix 2, Part C. of the General Permit. **Documentation attached?** USFWS  NOAA Fisheries
- 4. Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges any NCCW effluent to**, any of the following waterbodies:

- Merrimack River
- Connecticut River
- Westfield River
- Deerfield River
- Piscataqua River
- Salmon Falls River
- Cocheco River
- Taunton River

EPA will consult with NOAA Fisheries on any cooling water intakes or discharges covered under this permit in areas (in the above waterbodies) that overlap with the presence of shortnose sturgeon (endangered) and Atlantic sturgeon (threatened/endangered).

Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges non-contact cooling water effluent to**, the Connecticut River Watershed. EPA will consult with the U.S Fish and Wildlife Service on cooling water intakes and discharges covered under this permit in areas of the Connecticut River Watershed that overlap with the presence of the dwarf wedgemussel (endangered).

yes  no

**G. National Historic Properties Act Eligibility**

- 1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes  no
- 2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? yes  no   
 If yes, attach the results of the consultation(s).
- 3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C has the facility met?  
 1  2  3

**H. Supplemental Information**

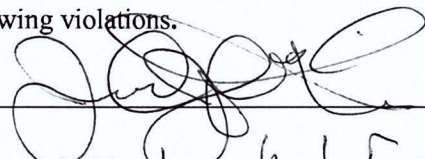
Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

**I. Signature Requirements**

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR§ 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature  Date 5/15/2024  
Printed Name and Title Joseph J. FONTAINE PRESIDENT

Federal regulations require this application to be signed as follows:

- 1. For a corporation, by a principal executive officer of at least the level of vice president;
- 2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
- 3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

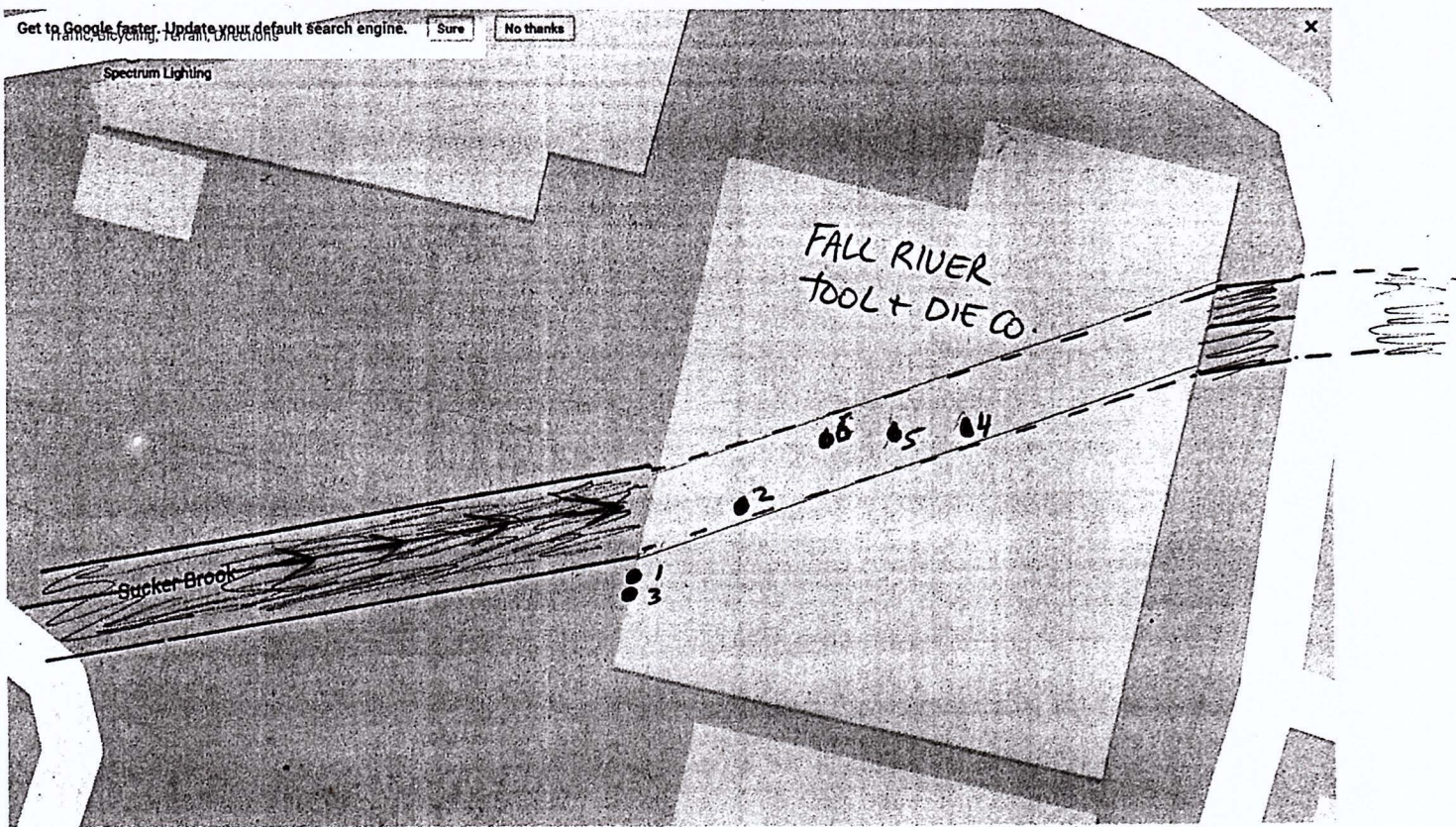


Fall River Tool + Die

MAG 250017



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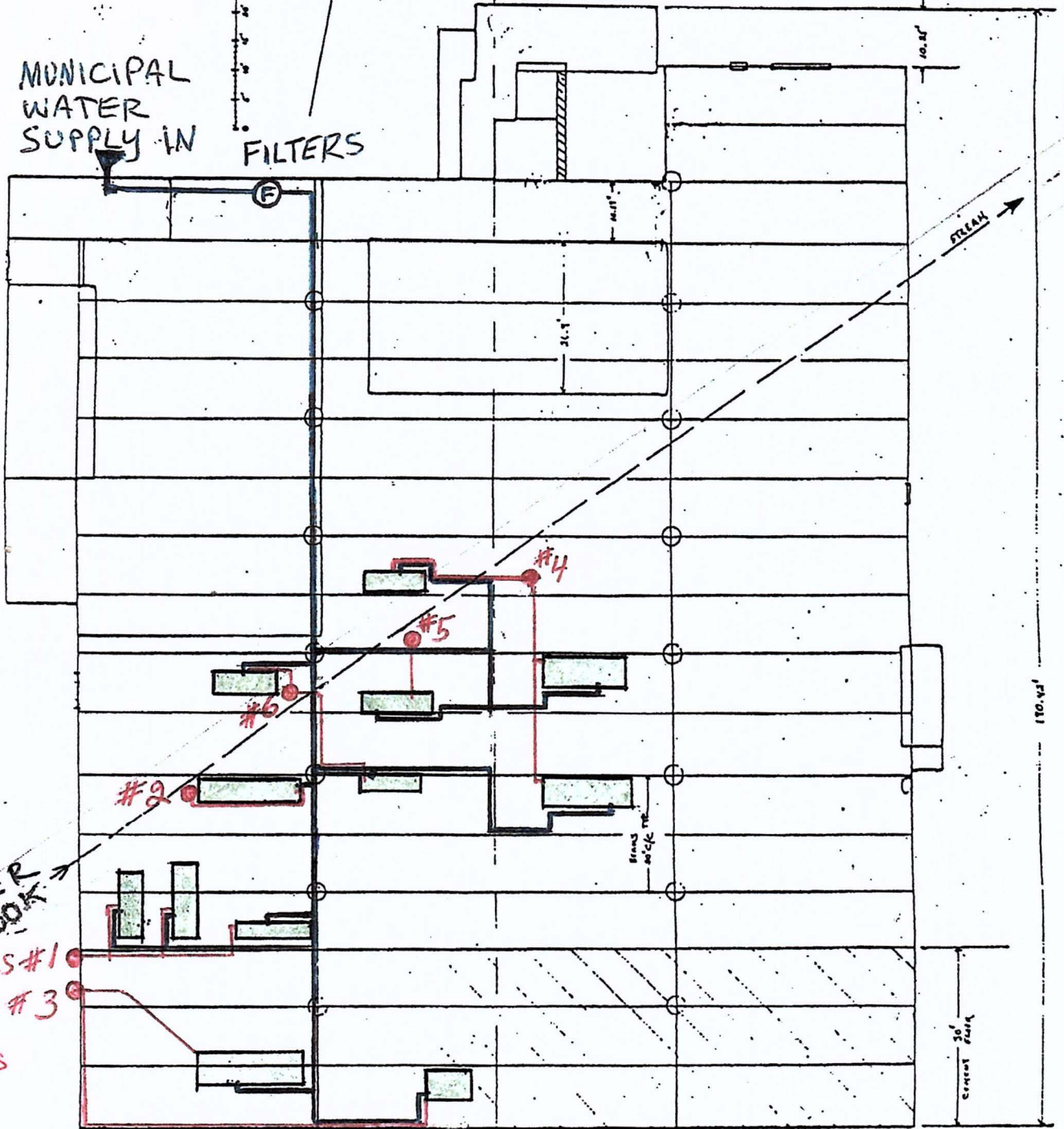
Map data ©2015 Google 20 ft

FALL RIVER TOOL & DIE CO.

MUNICIPAL WATER SUPPLY IN

FILTERS

SUCKER BROOK



SUCKER BROOK  
OUTFALLS #1  
AND #3  
AND  
DRAWLINES

10.10.1

FALL RIVER TOOL + DIE CO  
TEMP RISE

$$\Delta T_r = m_p/m_r \times \Delta T_p$$

$$= \frac{.005}{.04} \times 18 = 2.25^\circ \text{ F}$$

$$m_p = .005$$

$$m_r = .04$$

PLANT TEMP WINTER AVE  
WARM  $56^\circ \text{ F}$

SUCKER BLOOD WINTER AVE  
 $38^\circ \text{ F}$

$$\begin{array}{r} 56 \\ - 38 \\ \hline \end{array}$$

$\Delta T_p = 18^\circ$