

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
ONE CONGRESS STREET, SUITE 1100
BOSTON, MASSACHUSETTS 02114-2023

Request for General Permit Authorization to Discharge Wastewater
(Notice of Intent to be covered by the General Permit (NOI))

Potable Water Treatment Facility (PWTF)
NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information

1. Facility Owner:

Name City of Northampton e-mail nhuntley@nohodpw.org
Street/PO Box 125 Locust St City Northampton
State MA Zip Code 01060
Contact Person Ned Huntley Telephone Number 413-587-1570, X-4301

2. Facility Operator (if different from above):

Name Alex Roseweir e-mail (optional) aroseweir@nohodpw.org
Street/PO Box 137 Mountain St City Haydenville
State MA Zip Code 01039
Contact Person Alex Roseweir Telephone Number 413-268-9420, X-1

3. Facility Data (attach topographic map or other map showing facility and discharge location(s)):

Name Northampton Water Treatment Plant e-mail (optional) _____
Street/PO Box _____ City Haydenville
State MA Zip Code 01039
Contact Person Alex Roseweir Telephone Number 413-268-9420, X-1
Facility Latitude 42deg. 24min. 29 sec. Facility Longitude 70 deg. 40 min. 23 sec.

4. Standard Industrial Classification (SIC Codes) and Descriptions of Processes:

SIC Code(s) 4941
Description(s) Water Supply

5. Current Permitting Status (please check yes or no):

1. Has a prior NPDES permit been granted for the discharge? Yes ☒ (Permit Number: MAG640034)
No _____
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes _____ No ☒
3. Is the facility covered by an individual NPDES permit? Yes ☒ (Permit Number MAG640034) No _____
4. Is there a pending application on file with EPA for this discharge? Yes _____ (Date of submittal: _____)
No _____

B. Discharge Information

MAR 24 2010

1. Name of Receiving Waterbody Mountain Street Reservoir
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) Reservoir
3. State Water Quality Classification: _____ Freshwater: ☒ Marine Water: _____
4. Describe the discharge activities for which the owner/applicant is seeking coverage, including process discharges not specifically authorized in the PWTF GP which need to be authorized for discharge (and which attain the

568 GPM flow to lagoons during backwash

8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 N/A and/or C-NOEC N/A

9. If the discharge contains aluminum and/or residual chlorine, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water, the dilution factor, and attach any calculations used to support stream flow and dilution calculations (See Appendix VII for dilution calculations and additional information):

7Q10 N/a cfs Dilution Factor 10:1

D. Endangered Species Act Eligibility

1. Using the instructions in Appendix I of the PWTF GP, under which criterion listed in Part II are you eligible for coverage under this general permit?
A ☒ B ☐ C ☐ D ☐ E ☐ F ☐
2. If you selected criteria D or F, has consultation with the federal services been completed? Yes ☐ No ☐
3. If consultation with U.S. Fish and Wildlife Service 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? Yes ☐ No ☐
4. Attach documentation of ESA eligibility as described below and required at Part 3.4.1 and Appendix I, Part III, Step 4, of the General Permit.

Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present: A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

Criterion B - Section 7 consultation completed with the Service(s) on a prior project: A copy of the USFWS's and/or NMFS's, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

Criterion C - Activities are covered by a Section 10 Permit: A copy of the USFWS's and/or the NMFS's, as appropriate, letter transmitting the ESA Section 10 authorization.

Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

Criterion E - Activities are covered by certification of eligibility: A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I: A copy of the USFWS and/or the NMFS, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

E. National Historic Properties Act Eligibility

1. Using the instructions in Appendix III of the PWTf GP, under which criterion listed in Part III are you eligible for coverage under this general permit?

1 ☒ 2 ☐ 3 ☐

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).

F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that 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 inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

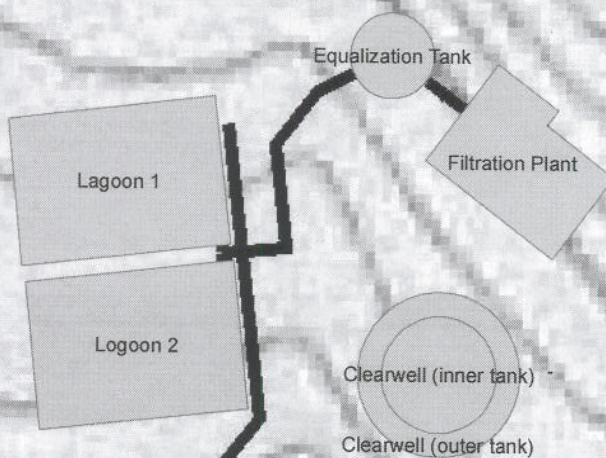
Signature Edward S. Huntley Date 3/22/10
Printed Name and Title EDWARD S. HUNTLEY DIRECTOR OF PUBLIC WORKS

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 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.

Note: Permits No. MAG640000 and NHG640000 may be found at www.epa.gov/region1/npdes/pwtfgp.html

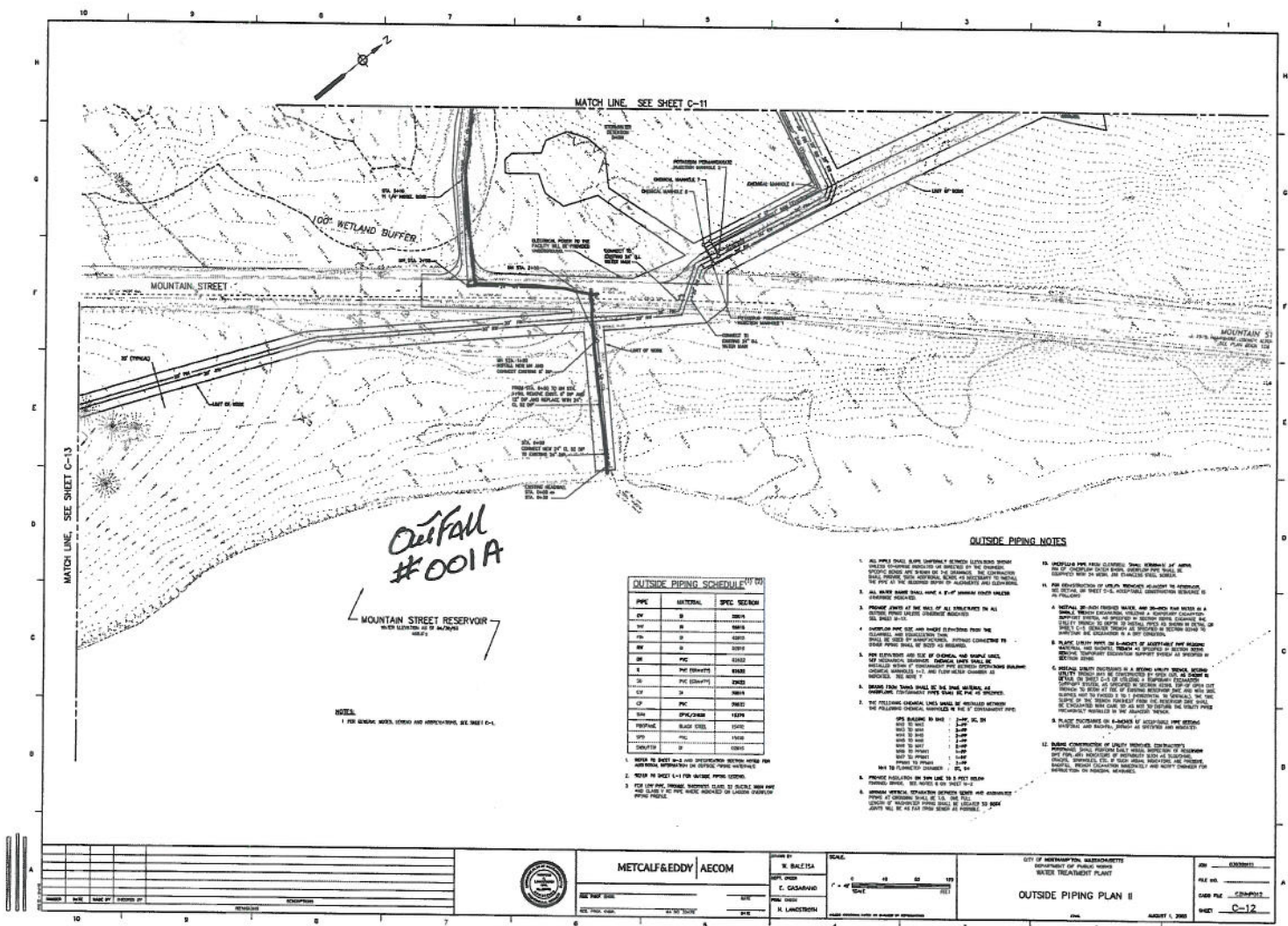
WHATELY



WILLIAMSBURG

Lagoon
Discharge

Northampton Water Filtration Plant



OUTSIDE PIPING SCHEDULE

PIPE	MATERIAL	SPEC. NUMBER
12"	8	0001
18"	8	0002
24"	8	0003
30"	8	0004
36"	8	0005
42"	8	0006
48"	8	0007
54"	8	0008
60"	8	0009
66"	8	0010
72"	8	0011
78"	8	0012
84"	8	0013
90"	8	0014
96"	8	0015
102"	8	0016
108"	8	0017
114"	8	0018
120"	8	0019
126"	8	0020
132"	8	0021
138"	8	0022
144"	8	0023
150"	8	0024
156"	8	0025
162"	8	0026
168"	8	0027
174"	8	0028
180"	8	0029
186"	8	0030
192"	8	0031
198"	8	0032
204"	8	0033
210"	8	0034
216"	8	0035
222"	8	0036
228"	8	0037
234"	8	0038
240"	8	0039
246"	8	0040
252"	8	0041
258"	8	0042
264"	8	0043
270"	8	0044
276"	8	0045
282"	8	0046
288"	8	0047
294"	8	0048
300"	8	0049
306"	8	0050
312"	8	0051
318"	8	0052
324"	8	0053
330"	8	0054
336"	8	0055
342"	8	0056
348"	8	0057
354"	8	0058
360"	8	0059
366"	8	0060
372"	8	0061
378"	8	0062
384"	8	0063
390"	8	0064
396"	8	0065
402"	8	0066
408"	8	0067
414"	8	0068
420"	8	0069
426"	8	0070
432"	8	0071
438"	8	0072
444"	8	0073
450"	8	0074
456"	8	0075
462"	8	0076
468"	8	0077
474"	8	0078
480"	8	0079
486"	8	0080
492"	8	0081
498"	8	0082
504"	8	0083
510"	8	0084
516"	8	0085
522"	8	0086
528"	8	0087
534"	8	0088
540"	8	0089
546"	8	0090
552"	8	0091
558"	8	0092
564"	8	0093
570"	8	0094
576"	8	0095
582"	8	0096
588"	8	0097
594"	8	0098
600"	8	0099
606"	8	0100
612"	8	0101
618"	8	0102
624"	8	0103
630"	8	0104
636"	8	0105
642"	8	0106
648"	8	0107
654"	8	0108
660"	8	0109
666"	8	0110
672"	8	0111
678"	8	0112
684"	8	0113
690"	8	0114
696"	8	0115
702"	8	0116
708"	8	0117
714"	8	0118
720"	8	0119
726"	8	0120
732"	8	0121
738"	8	0122
744"	8	0123
750"	8	0124
756"	8	0125
762"	8	0126
768"	8	0127
774"	8	0128
780"	8	0129
786"	8	0130
792"	8	0131
798"	8	0132
804"	8	0133
810"	8	0134
816"	8	0135
822"	8	0136
828"	8	0137
834"	8	0138
840"	8	0139
846"	8	0140
852"	8	0141
858"	8	0142
864"	8	0143
870"	8	0144
876"	8	0145
882"	8	0146
888"	8	0147
894"	8	0148
900"	8	0149
906"	8	0150
912"	8	0151
918"	8	0152
924"	8	0153
930"	8	0154
936"	8	0155
942"	8	0156
948"	8	0157
954"	8	0158
960"	8	0159
966"	8	0160
972"	8	0161
978"	8	0162
984"	8	0163
990"	8	0164
996"	8	0165
1002"	8	0166
1008"	8	0167
1014"	8	0168
1020"	8	0169
1026"	8	0170
1032"	8	0171
1038"	8	0172
1044"	8	0173
1050"	8	0174
1056"	8	0175
1062"	8	0176
1068"	8	0177
1074"	8	0178
1080"	8	0179
1086"	8	0180
1092"	8	0181
1098"	8	0182
1104"	8	0183
1110"	8	0184
1116"	8	0185
1122"	8	0186
1128"	8	0187
1134"	8	0188
1140"	8	0189
1146"	8	0190
1152"	8	0191
1158"	8	0192
1164"	8	0193
1170"	8	0194
1176"	8	0195
1182"	8	0196
1188"	8	0197
1194"	8	0198
1200"	8	0199
1206"	8	0200
1212"	8	0201
1218"	8	0202
1224"	8	0203
1230"	8	0204
1236"	8	0205
1242"	8	0206
1248"	8	0207
1254"	8	0208
1260"	8	0209
1266"	8	0210
1272"	8	0211
1278"	8	0212
1284"	8	0213
1290"	8	0214
1296"	8	0215
1302"	8	0216
1308"	8	0217
1314"	8	0218
1320"	8	0219
1326"	8	0220
1332"	8	0221
1338"	8	0222
1344"	8	0223
1350"	8	0224
1356"	8	0225
1362"	8	0226
1368"	8	0227
1374"	8	0228
1380"	8	0229
1386"	8	0230
1392"	8	0231
1398"	8	0232
1404"	8	0233
1410"	8	0234
1416"	8	0235
1422"	8	0236
1428"	8	0237
1434"	8	0238
1440"	8	0239
1446"	8	0240
1452"	8	0241
1458"	8	0242
1464"	8	0243
1470"	8	0244
1476"	8	0245
1482"	8	0246
1488"	8	0247
1494"	8	0248
1500"	8	0249
1506"	8	0250
1512"	8	0251
1518"	8	0252
1524"	8	0253
1530"	8	0254
1536"	8	0255
1542"	8	0256
1548"	8	0257
1554"	8	0258
1560"	8	0259
1566"	8	0260
1572"	8	0261
1578"	8	0262
1584"	8	0263
1590"	8	0264
1596"	8	0265
1602"	8	0266
1608"	8	0267
1614"	8	0268
1620"	8	0269
1626"	8	0270
1632"	8	0271
1638"	8	0272
1644"	8	0273
1650"	8	0274
1656"	8	0275
1662"	8	0276
1668"	8	0277
1674"	8	0278
1680"	8	0279
1686"	8	0280
1692"	8	0281
1698"	8	0282
1704"	8	0283
1710"	8	0284
1716"	8	0285
1722"	8	0286
1728"	8	0287
1734"	8	0288
1740"	8	0289
1746"	8	0290
1752"	8	0291
1758"	8	0292
1764"	8	0293
1770"	8	0294
1776"	8	0295
1782"	8	0296
1788"	8	0297
1794"	8	0298
1800"	8	0299
1806"	8	0300
1812"	8	0301
1818"	8	0302
1824"	8	0303
1830"	8	0304
1836"	8	0305
1842"	8	0306
1848"	8	0307
1854"	8	0308
1860"	8	0309
1866"	8	0310
1872"	8	0311
1878"	8	0312
1884"	8	0313
1890"	8	0314
1896"	8	0315
1902"	8	0316
1908"	8	0317
1914"	8	0318
1920"	8	0319
1926"	8	0320
1932"	8	0321
1938"	8	0322
1944"	8	0323
1950"	8	0324
1956"	8	0325
1962"	8	0326
1968"	8	0327
1974"	8	0328
1980"	8	0329
1986"	8	0330
1992"	8	0331
1998"	8	0332
2004"	8	0333
2010"	8	0334
2016"	8	0335
2022"	8	0336
2028"	8	0337
2034"	8	0338
2040"	8	0339
2046"	8	0340
2052"	8	0341
2058"	8	0342
2064"	8	0343
2070"	8	0344
2076"	8	0345
2082"	8	0346
2088"	8	0347
2094"	8	0348
2100"	8	0349
2106"	8	0350
2112"	8	0351
2118"	8	0352
2124"	8	0353
2130"	8	0354
2136"	8	0355
2142"	8	0356
2148"	8	0357
2154"	8	0358
2160"	8	0359
2166"	8	0360
2172"	8	0361
2178"	8	0362
2184"	8	

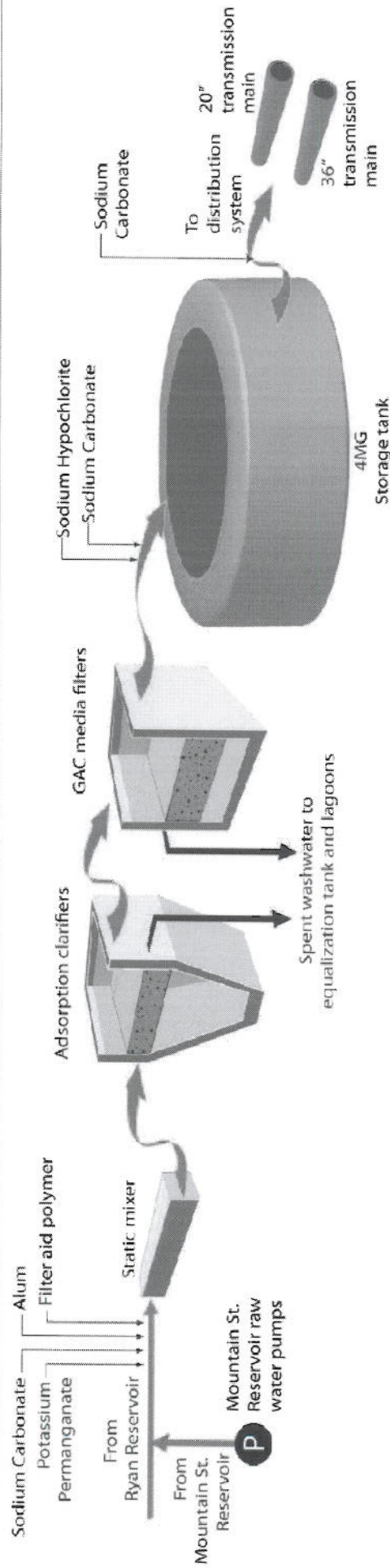
The Mountain Street Water Treatment Plant uses advanced technology to treat water from the Ryan and Mountain Street Reservoirs. New processes provide consistent and reliable treatment to meet the stringent requirements of the Safe Drinking Water Act.

Northampton's Mountain Street Water Treatment Plant

...Treatment for the 21st Century

The City's water system was born in the early 1900's with the construction of the West Whately and Mountain Street Reservoirs. In 1970, the Ryan Reservoir, the largest of the City's reservoirs,

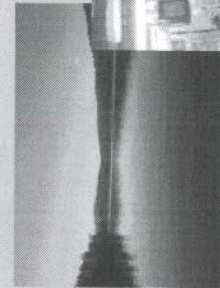
chemically treated water flows upward through buoyant media to remove flocculated particles in the raw water. The clarified water now flows through granular activated carbon (GAC)



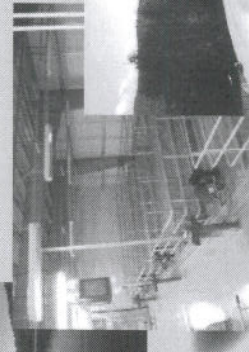
was added to the City's water supply system. Historically, sodium hydroxide and zinc orthophosphate, were added to the water for corrosion limits before distribution to the City's customers. In addition, chlorine was used for disinfection. While this system has served the City well for many years, a higher level of treatment of the City's raw water sources was required to consistently meet new drinking water regulations.

To meet these regulations, the City of Northampton undertook the construction of the new water treatment plant in 2005. Water from the City's reservoirs enters the plant where it flows through a static mixer to disperse flocculating aids. In the adsorption clarifiers

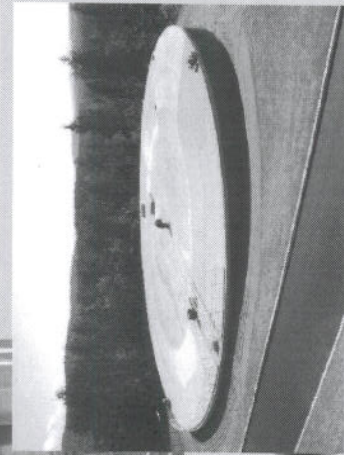
filters, where the GAC removes suspended matter and organic compounds. The water is disinfected with liquid sodium hypochlorite and stored in the 4 million gallon concrete clearwell, prior to distribution to the City's customers. The new treatment processes are contained within a new operations building, which also houses a state of the art laboratory and a computerized control system that is used to monitor the treatment process from start to finish.



Ryan Reservoir



Filter Gallery



Finished Water Clearwell

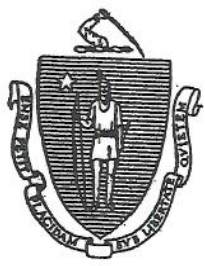


Transmittal #W068283

36800335

202

cc: Spahn
Hoffman



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Watershed Management, 627 Main Street 2nd Floor, Worcester, MA 01608

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

STEPHEN R. PRITCHARD
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

September 22, 2005

George Andrikidis
Director of Public Works
City of Northampton
125 Locust Street
Northampton, MA 01060

Re: Northampton Water Treatment Facility
NPDES General Permit for Water Treatment Facility Discharges
Transmittal #W068283 MAG640034 Renewal

Dear Mr. Andrikidis:

The Department of Environmental Protection (DEP), Division of Watershed Management, has received your state permit application for the National Pollutant Discharge Elimination System (NPDES) General Permit for Water Treatment Facility Discharges. We have reviewed the BRP WM 13 application for administrative completeness and determined that all the application requirements have been fulfilled.

NPDES/Surface Water Discharge Permits are issued jointly by DEP and the U. S. Environmental Protection Agency (US EPA). EPA has not yet issued a new general permit for water treatment plant discharges, however, your coverage will be administratively continued and remains in force as described in Section I.C.2.c of the permit. You will receive written confirmation from EPA.

If you have any questions, please feel free to call me at 508-767-2856 or email kathleen.keohane@state.ma.us.

Very truly yours,

Kathleen Keohane

Kathleen Keohane
Environmental Engineer

Cc: Paul Hogan
Olga Vergara/EPA
Thomas Spearin/Metcalf & Eddy