

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 12th Floor, Albany, NY 12233-7014
P: (518) 402-9662 | F: (518) 402-9679
www.dec.ny.gov

September 10, 2020

Mr. Jesse Gallo
MGP Project Manager
Central Hudson Gas & Electric Corporation
284 South Avenue
Poughkeepsie, NY 12601-4838

Re: August 2020 Semi-Annual Monitoring Event Results
CH - Catskill Former Manufactured Gas Plant (MGP)
Greene County, Site No. C420027

Dear Mr. Gallo:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the August 2020 Semi-Annual Monitoring Event Results for the above referenced site provided to the Department on August 27, 2020. The Department and NYSDOH find the report to be acceptable.

If you have any questions, please contact me at 518-402-2029 or email:
greta.white@dec.ny.gov.

Sincerely,



Greta White, P.G.
Project Manager
Remedial Action Bureau C
Division of Environmental Remediation

EC: D. Eaton, NYSDEC
J. Brown, NYSDEC
J. Kenney, NYSDOH
J. Deming, NYSDOH
M. McLean, CH
W. Mancroni, CH



Department of
Environmental
Conservation



DOH response -- Region 4 -- Catskill MGP C420027 -- Semi-Annual GW Monitoring Report

Kenney, Julia M (HEALTH) <julia.kenney@health.ny.gov>

Wed 09/09/2020 12:52 PM

To: White, Greta L (DEC) <Greta.White@dec.ny.gov>

Cc: Deming, Justin H (HEALTH) <justin.deming@health.ny.gov>; Eaton, Daniel J (DEC) <daniel.eaton@dec.ny.gov>

Good Afternoon Greta,

I have reviewed the August 2020 -Semi Annual Groundwater sampling event results for the above-mentioned site. I have no comments and find the report acceptable.

Thanks,

Julia

Julia M. Kenney, P.G.
Public Health Specialist III

NYS Department of Health
Bureau of Environmental Exposure Investigation
Corning Tower, Room 1787
Albany NY 12237

ph. 518.402.7860

From: White, Greta L (DEC) <Greta.White@dec.ny.gov>

Sent: Tuesday, September 01, 2020 11:19 AM

To: Kenney, Julia M (HEALTH) <julia.kenney@health.ny.gov>; Deming, Justin H (HEALTH) <justin.deming@health.ny.gov>

Subject: Review -- Region 4 -- Catskill MGP C420027 -- Semi-Annual GW Monitoring Report

Hi Julia,

Below you will please find a link to download the above referenced report for the Catskill MGP. I am not sure if you wish to review and comment on these, please let me know. I see in DecDocs that there were some DOH approval letters of past reports like this, however, that may be because they had been requesting reduction in monitoring. I have reviewed the report and find it to be acceptable. Please let me know your findings.

Thanks,
Greta




Greta White, P.G.

Assistant Geologist, Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, Albany, New York 12233-7014

P: (518) 402-2029 | F: (518) 402-9679 | greta.white@dec.ny.gov

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From: no-reply@dec.ny.gov <no-reply@dec.ny.gov>

Sent: Tuesday, September 1, 2020 11:14 AM

To: White, Greta L (DEC) <Greta.White@dec.ny.gov>

Subject: A file is available for you at NYSDEC FTS

A file has been made available for you to download by a NYS DEC employee.

Filename: Aug 2020 Semi Ann Mon Report.pdf

Size: 2.35 MB

Duration Available: 2 Weeks

Description: Catskill C420027 Semi-Ann GW Mon Rep

Download Code: 1d185b47

By using the following link or by copy/pasting the address into a web browser, you will be prompted to save or open the file:

<https://fts.dec.state.ny.us/fts/sendfile.php?fid=55002&vercode=1d185b47>



Submitted via email

August 27, 2020

Greta White
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7014

Re: Catskill MGP Site (C420027)
August 2020 – Semi-Annual Monitoring Event Results

Dear Ms. White:

This letter serves to document the results of the semi-annual monitoring event conducted on August 5, 2020 at Central Hudson Gas & Electric Corporation's (Central Hudson's) former manufactured gas plant (MGP) site located in Catskill, NY (Figures 1 and 2).

Groundwater Sampling Event

For the sampling event, each sampled well was purged by pumping a minimum of five well volumes of water or until pumped dry. Water chemistry parameters were monitored during the well purging including water temperature, pH, turbidity, dissolved oxygen, redox potential, and electromagnetic conductance. Immediately following purging, representative groundwater samples were collected from each well using a peristaltic pump maintaining a constant low flow discharge rate of approximately 250 milligrams per minute (ml/min). Each sample was containerized in laboratory-supplied jars and couriered under chain of custody to Test America Laboratories for analysis. The samples were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) using United States Department of Environmental Protection Agency (USEPA) Methods 8260 and 8270, respectively. Copies of the groundwater sampling water chemistry data (field notes) and laboratory analytical report are attached. An electronic data delivery (EDD) file containing the laboratory results was electronically submitted to the New York State Department of Environmental Conservation (NYSDEC) on August 26, 2020.

Results

Depth to water ranged from 8.40 feet below top of casing (fbtoc) to 9.38 fbtoc in monitoring wells MW-1 and MW-2, respectively (Table 1). Dense non-aqueous phase liquid (DNAPL) was not observed in any well during the gauging event. Based on this and previous gauging events, groundwater in the overburden unit is variable. A site plan is attached as Figure 2.

Concentrations of benzene were detected above Technical and Operational Guidance Series (TOGS) 1.1.1 ambient water quality standards and guidance values in MW-1 and MW-2. Additionally, ethylbenzene was detected above TOGS 1.1.1 ambient water quality standards and guidance values in MW-2. No other dissolved constituents were detected above these standards and guidance values. Laboratory sample results are provided in Table 2.

The next monitoring event, well gauging only, is tentatively scheduled to be performed in February 2021. Please contact me at (845) 486-5641 or jgallo@cenhud.com if you have any questions.

Sincerely,



Jesse N. Gallo
MGP Project Manager

Attachments

- ec. Justin Deming, NYSDOH
- Julia Kenney, NYSDOH
- Wayne Mancroni, Central Hudson
- Mark McLean, Central Hudson

Tables

Table 1
Groundwater Monitoring Well Gauging Data
August 2020

Well ID	MP Elevation	DTW	WTE
MW-1	8.80	8.40	2.75
MW-2	10.10	9.38	3.30
MW-3	11.90	8.93	3.70

Notes:

MP - Well top of casing measuring point

DTW - Depth to water (feet)

WTE - Water table elevation

Table 2
Summary of Groundwater Sample Analytical Results

Constituent	TOGS 1.1.1	Units	MW-1																				
			8/26/13	11/8/13	3/19/14	5/15/14	8/4/14	11/6/14	2/23/15	8/20/15	2/2/16	8/2/16	2/1/17	8/7/17	2/1/18	8/8/18	8/7/19	8/5/20					
Benzene	1	ug/L	<0.5	<0.5	<0.5	2	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10	25	33	28	<0.43	1.7	4.0
Ethylbenzene	5	ug/L	<0.8	<0.8	<0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	3.8	3.6	2.6	<0.30	<0.30	<0.30
Toluene	5	ug/L	<0.7	<0.7	<0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.32 J	0.32 J	0.53 J	0.45 J	<0.38	<0.38	<0.38
Xylenes (total)	5	ug/L	<0.8	<0.8	<0.8	0.9 J	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	5.6	8.4	4.4	<0.42	<0.36	1.01
Total BTEX	--	ug/L	ND	ND	ND	2.9	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.62	34.72	45.53	35.45	ND	1.7	5
2-Methylnaphthalene	--	ug/L	<0.1	<0.1	<0.1	<0.1	0.2 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4 J	1.1 J	5.3 J	<0.88	<1.1	<1.1	<1.1
Acenaphthene	20	ug/L	<0.1	<0.1	0.3 J	3	9	<0.1	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J	10	15	38	28	<1.1	9.2 J	13
Acenaphthylene	--	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.66	<0.66	<0.68	<0.65	<0.82	<0.82	<0.82
Anthracene	50	ug/L	<0.1	<0.1	<0.1	<0.1	0.2 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.58	<0.57	1.1 J	0.66 J	<0.63	<0.63	<0.63
Benzo(a)anthracene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.56	<0.55	<0.57	<0.55	<0.59	<0.59	<0.59
Benzo(a)pyrene	--	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.16	<0.16	<0.17	<0.16	<0.41	<0.41	<0.41
Benzo(b)fluoranthene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.45	<0.44	<0.46	<0.44	<1.1	<1.1	<0.88
Benzo(g,h,i)perylene	--	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.77	<0.75	<0.78	<0.75	<1.4	<1.4	<1.4
Benzo(k)fluoranthene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.18	<0.18	<0.19	<0.18	<0.67	<0.67	<0.67
Chrysene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.68	<0.67	<0.70	<0.67	<0.91	<0.91	<0.91
Dibenz(a,h)anthracene	--	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.092	<0.090	<0.094	<0.090	<0.72	<0.72	<0.72
Dibenzofuran	--	ug/L	<0.5	<0.5	<0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.7 J	3.7 J	9.8 J	5.1 J	<1.1	1.4 J	1.6 J
Fluorene	50	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.73	<0.72	<0.75	<0.72	<0.84	<0.84	<0.84
Fluoranthene	50	ug/L	<0.1	<0.1	<0.1	0.3 J	0.3 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.8 J	4.1 J	12	8.0 J	<0.91	2.3 J	3.2 J
Indeno(1,2,3-cd)pyrene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.21	<0.21	<0.22	<0.21	<1.3	<1.3	<0.94
Naphthalene	10	ug/L	<0.1	<0.1	<0.1	1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.5 J	3.1 J	5.5 J	5.8 J	<1.1	<1.1	<1.1
Phenanthrene	50	ug/L	<0.1	0.1 J	<0.1	0.1 J	0.9	<0.1	0.1 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.5 J	1.3 J	7.4 J	3.7 J	<0.58	1.3 J	1.1 J
Pyrene	50	ug/L	<0.1	0.1 J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.85	<0.83	<0.86	<0.83	<1.6	<1.6	<1.6

Table 2
Summary of Groundwater Sample Analytical Results

Constituent	TOGS 1.1.1	Units	MW-2															
			8/26/13	11/8/13	3/19/14	5/15/14	8/4/14	11/6/14	2/23/15	8/20/15	2/2/16	8/2/16	2/1/17	8/7/17	2/1/18	8/8/18	8/7/19	8/5/20
Benzene	1	ug/L	<0.5	2 J	170	5	19	36	360	75	47	38	43	69	260	43	<0.20	19
Ethylbenzene	5	ug/L	<0.8	1 J	66	1	13	13	100	43	14	5.9	2.1	2.4	59	7.8	<0.30	6.6
Toluene	5	ug/L	<0.7	1 J	76	<0.5	4	6	36	6	3	0.93 J	1.9	0.67 J	9.3	3.6	<0.38	<0.38
Xylenes (total)	5	ug/L	<0.8	4 J	300	10	36	45	230	40	26	7.21	26.5	13.81	74	13	<0.36	<0.36
Total BTEX	--	ug/L	ND	8	612	16	72	100	726	164	90	52.04	73.5	85.88	402.8	67.4	ND	25.6
2-Methylnaphthalene	--	ug/L	<0.1	<0.1	58	0.3 J	0.7	0.1 J	4	2	0.4 J	<0.88	<0.88	<0.92	<0.88	<1.1	<1.1	<1.1
Acenaphthene	20	ug/L	<0.1	<0.1	25	2	9	10	34	25	15	6.1 J	<0.88	9.7 J	22	<1.1	<1.1	5.6 J
Acenaphthylene	--	ug/L	<0.1	<0.1	15	1	4	4	21	12	5	1.7 J	<0.65	2.1 J	1.9 J	<0.82	<0.82	<0.82
Anthracene	50	ug/L	<0.1	<0.1	5	0.6	3	3	7	8	4	1.8 J	<0.57	0.88 J	1.7 J	<0.63	<0.63	<0.63
Benzo(a)anthracene	0.002	ug/L	<0.1	<0.1	0.1 J	0.2 J	0.6	<0.1	0.2 J	2	0.9	<0.55	<0.55	<0.57	<0.55	<0.59	<0.59	<0.59
Benzo(a)pyrene	--	ug/L	<0.1	<0.1	<0.1	0.2 J	0.4 J	<0.1	<0.1	1	0.7	<0.16	<0.16	<0.17	<0.16	<0.41	<0.41	<0.41
Benzo(b)fluoranthene	0.002	ug/L	<0.1	<0.1	<0.1	0.2 J	0.5 J	<0.1	<0.1	1	0.6	<0.44	<0.44	<0.46	<0.44	<1.1	<1.1	<0.88
Benzo(g,h,i)perylene	--	ug/L	<0.1	<0.1	<0.1	<0.1	0.2 J	<0.1	<0.1	0.6	0.4 J	<0.75	<0.75	<0.78	<0.75	<1.4	<1.4	<1.4
Benzo(k)fluoranthene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	0.2 J	<0.1	<0.1	0.7	0.5 J	<0.18	<0.18	<0.19	<0.18	<0.67	<0.67	<0.67
Chrysene	0.002	ug/L	<0.1	<0.1	0.1 J	0.3 J	0.5	<0.1	0.2 J	2	0.8	<0.67	<0.67	<0.70	<0.67	<0.91	<0.91	<0.91
Dibenz(a,h)anthracene	--	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3 J	0.3 J	<0.090	<0.090	<0.094	<0.090	<0.72	<0.72	<0.72
Dibenzofuran	--	ug/L	<0.5	<0.5	22	2	8	10	31	26	13	6.5 J	<0.85	<0.89	13	<1.1	<1.1	4.7 J
Fluoranthene	50	ug/L	0.1 J	<0.1	3	0.8	3	2	5	8	4	2.5 J	<0.72	<0.75	1.3 J	<0.84	<0.84	<0.84
Fluorene	50	ug/L	0.1 J	<0.1	22	2	8	10	29	26	13	6.9 J	<0.80	6.8 J	12	<0.91	<0.91	3.0 J
Indeno(1,2,3-cd)pyrene	0.002	ug/L	<0.1	<0.1	<0.1	<0.1	0.2 J	<0.1	<0.1	0.7	0.4 J	<0.21	<0.21	<0.22	<0.21	<1.3	<1.3	<0.94
Naphthalene	10	ug/L	0.6	<0.1	760	0.2 J	12	0.5	1,300	350	3	<0.80	<0.80	<0.83	1.6 J	<1.1	<1.1	<1.1
Phenanthrene	50	ug/L	0.2 J	<0.1	14	1	5	7	23	27	11	2.4 J	<0.65	1.5 J	3.5 J	<0.58	<0.58	<0.58
Pyrene	50	ug/L	0.1 J	<0.1	2	0.6	2	1	3	6	2	1.6 J	<0.83	<0.86	<0.83	<1.6	<1.6	<1.6

Table 2
Summary of Groundwater Sample Analytical Results

Notes:

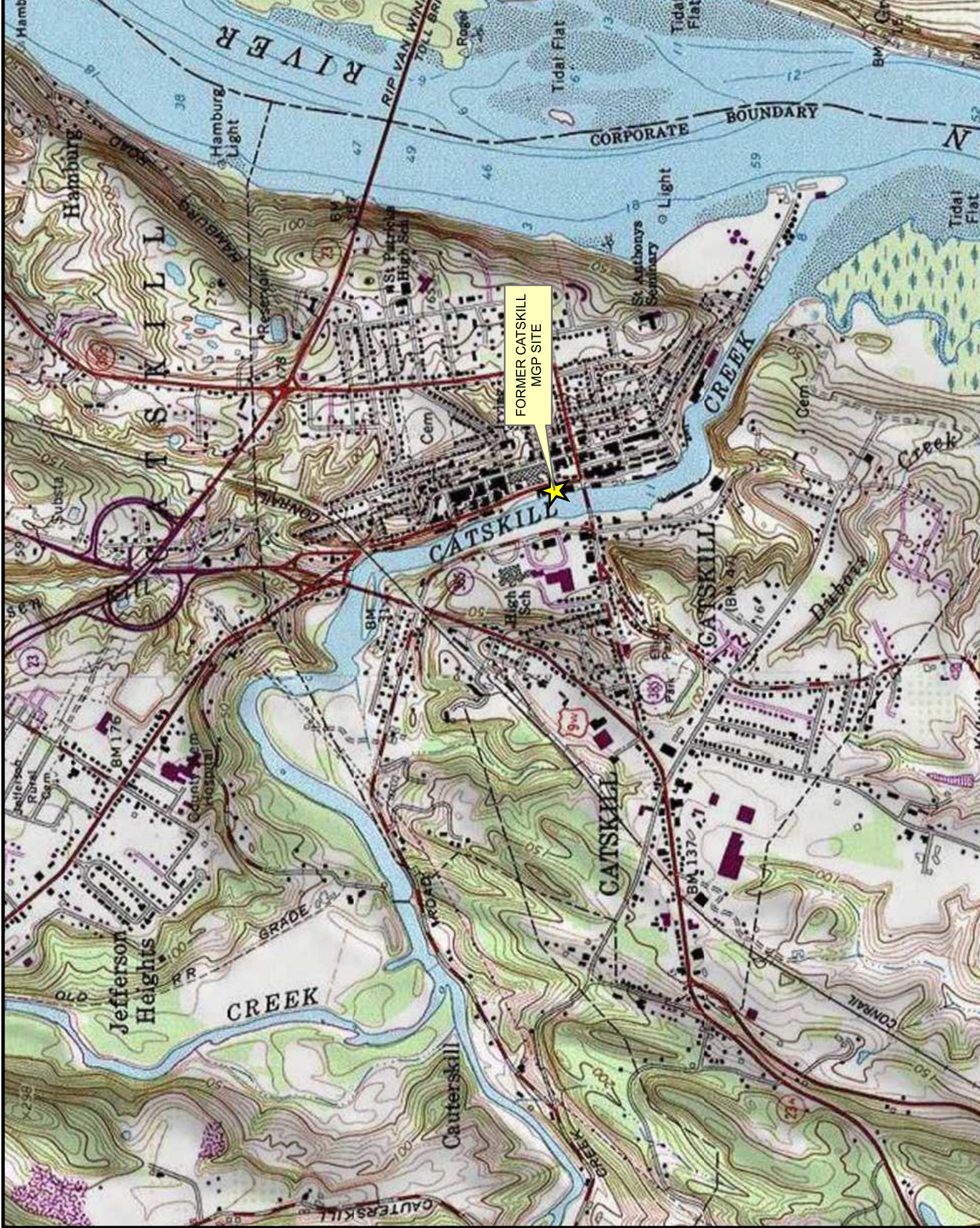
ND - Respective benzene, toluene, ethylbenzene and xylenes (BTEX) results below method detection limit (Not Detected).

J - Laboratory estimated value.

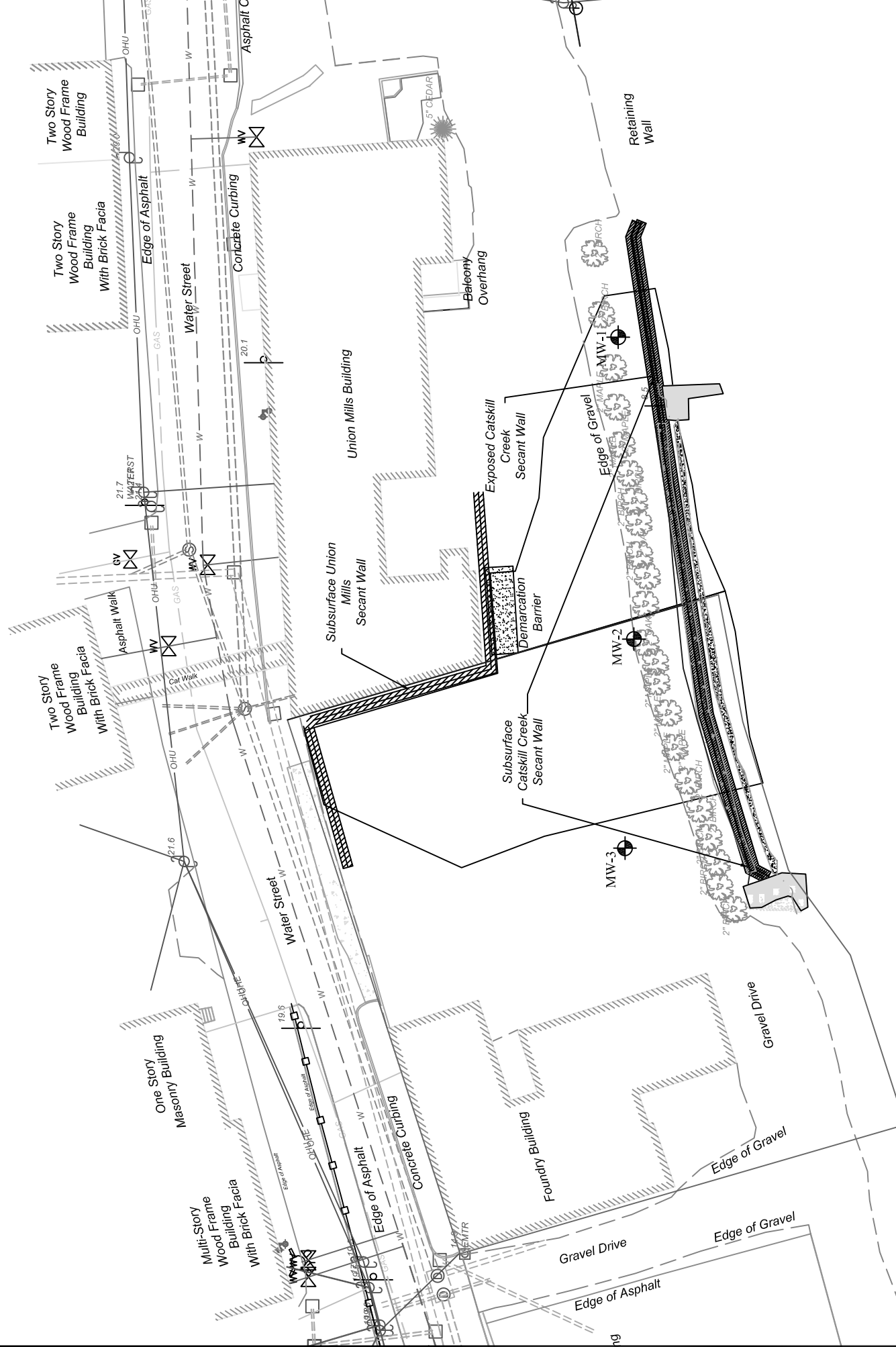
Shading indicates that the value exceeds NYSDEC TOGS 1.1.1 ambient water quality standards and guidance values.

ug/L - micrograms per liter.

Figures



FORMER CATSKILL
MGP SITE



Monitoring Data (field notes)



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CENTRAL HUDSON GAS AND ELECTRIC
CATSKILL, NY FORMER MGP SITE
MONITORING WELL GAUGING AND LOW FLOW SAMPLING FORM

Sample Location: MN-3 Sample Date: 8/5/20 Weather Conditions: Sunny 74-84

Sampler(s) Name: T. Mair Purge Method: Peri pump Sample Methods: low flow

Ambient PID Reading	<u>0.0</u>	ppm
Well head PID Reading	<u>0.0</u>	ppm
Static Water Level	<u>8.93</u>	feet
LNAPL	<u>—</u>	feet

Time Puge Began	<u>0932</u>
Time Stabilization Achieved	<u>1000</u>
Puge Rate	<u>250</u>

ml/min

Time	Purge	Water Level	pH	Specific Conductance	Temperature	Turbidity	Dissolved Oxygen	Redox Potential	Observation
<u>0935</u>	<u>0940</u>	<u>0945</u>	<u>0950</u>	<u>0955</u>	<u>1000</u>				
<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>				
<u>9.15</u>	<u>9.15</u>	<u>9.15</u>	<u>9.15</u>	<u>9.15</u>	<u>9.15</u>				
<u>8.81</u>	<u>7.06</u>	<u>6.86</u>	<u>6.83</u>	<u>6.78</u>	<u>6.78</u>				
<u>1508</u>	<u>1.466</u>	<u>1.461</u>	<u>1.462</u>	<u>1.459</u>	<u>1.457</u>				
<u>17.81</u>	<u>17.59</u>	<u>18.09</u>	<u>18.37</u>	<u>18.50</u>	<u>18.52</u>				
<u>0.3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>				
<u>2.53</u>	<u>1.49</u>	<u>1.34</u>	<u>1.49</u>	<u>1.42</u>	<u>1.42</u>				
<u>86</u>	<u>158</u>	<u>193</u>	<u>204</u>	<u>212</u>	<u>216</u>				
<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>				

Well Depth	<u>19.35</u>	feet
DNAPL Thickness	<u>ND</u>	feet
Volume of Purge Water Collected	<u>~2.5</u>	gallons
Volume of DNAPL Collected	<u>ND</u>	gallons

Comments: ST = 1002
Extra Volume for MS/MSD



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built assets

CENTRAL HUDSON GAS AND ELECTRIC
CATSKILL, NY FORMER MGP SITE
MONITORING WELL GAUGING AND LOW FLOW SAMPLING FORM

Sample Location: MW-2 Sample Date: 8/5/20 Weather Conditions: Sunny 74-84
Sampler(s) Name: T. Mair Purge Method: Peri Pump Sample Methods: Low Flow

Ambient PID Reading 0.0 ppm
Well head PID Reading 0.0 ppm
Static Water Level 9.38 feet
LNAPL ND feet

Time Puge Began 1032
Time Stabilization Achieved 1055
Puge Rate 250 ml/min

Time	1035	1040	1045	1050	1055
Purge	250	250	250	250	250
Water Level	9.40	9.40	9.40	9.40	9.40
pH	7.84	7.88	7.91	7.93	7.95
Specific Conductance	1419	1416	1411	1403	1400
Temperature	21.79	22.31	22.92	23.25	23.64
Turbidity	16.8	13.3	13.0	15.00	16.0
Dissolved Oxygen	0	0	0	0	0
Redox Potential	-182	-204	-216	-213	-200
Observation	Clear	Clear	Clear	Clear	Clear

Well Depth 19.40 feet
DNAPL Thickness ND feet
Volume of Purge Water Collected 22.5 gallons
Volume of DNAPL Collected ND gallons

Comments: ST=1057



Design & Consultancy
for natural and
built assets

CENTRAL HUDSON GAS AND ELECTRIC
CATSKILL, NY FORMER MGP SITE
MONITORING WELL GAUGING AND LOW FLOW SAMPLING FORM

Sample Location: MW-1 Sample Date: 8/5/20 Weather Conditions: Sunny 74-84

Sampler(s) Name: T. MARR Purge Method: Peri Pump Sample Methods: low flow

Ambient PID Reading	0.0	ppm
Well head PID Reading	0.0	ppm
Static Water Level	8.40	feet
LNAPL	ND	feet

Time Puge Began	1117
Time Stabilization Achieved	1140
Puge Rate	250 ml/min

Time	1120	1125	1130	1135	1140		
Purge	250	250	250	250	250		
Water Level	8.45	8.45	8.45	8.45	8.45		
pH	7.74	7.70	7.71	7.73	7.75		
Specific Conductance	1535	1505	1474	1431	1408		
Temperature	22.37	22.31	22.44	22.84	23.03		
Turbidity	22.5	17.8	15.3	12.8	11.1		
Dissolved Oxygen	0	0	13	12.9	12.7		
Redox Potential	-209	-210	-211	-211	-209		
Observation	Clear/BT	Clear/Bio	Clear/Bio	Clear/Bio	Clear/Bio		

Well Depth	17.85	feet
DNAPL Thickness	ND	feet
Volume of Purge Water Collected	22.5	gallons
Volume of DNAPL Collected	ND	gallons

Comments: ST = 1142
Field Blank 080520 @ 1133
Brown Bio growth at pump start