

REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
MAY 14, 2024 – WATERTOWN, NEW YORK

HUDSON RIVER AREA - APRIL SUMMARY

Reservoir Operation

Great Sacandaga Lake

The April average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 5,250 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for April 30 is 763.62 feet (ft). The release of water from Great Sacandaga Lake was consistent with the Upper Hudson/Sacandaga River Offer of Settlement.

Table 1.0 - *Great Sacandaga Lake Elevation and Release*

Date	Daily Average Elevation (ft,NAVD) ⁽⁴⁾	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Mar. 31	768.68	+17.98	+19.56	0	4,020
Apr. 30	767.5 (e)	+2.5 (e)	+3.8 (e)	0	4,300 (e)

- Notes: (1) Difference between current reservoir elevation and historic average or Level 3
(2) Release established by Regulating District
(3) "(e)" represents estimated value
(4) "NAVD" is North American Vertical Datum

Indian Lake Reservoir

The April average daily release from Indian Lake was approximately 400 cfs.

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	Daily Average Elevation (1) (ft, NAVD)	Deviation (ft)		Release (cfs)
		From Average	From Target	
Mar. 31	1,645.58	+3.94	+8.50	203
Apr. 30	1,650.1 (e)	+0.4 (e)	-0.5 (e)	553 (e)

- Notes: (1) Local datum = NAVD elevation + 1617.63ft; spillway crest = 1651.01ft (33.38ft)
(2) "(e)" represents estimated value

HUDSON RIVER AREA - APRIL SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 7,950 cfs on April 28 and approximately 3,000 cfs below the historic average flow.

Table 3.0 - *Sacandaga, Indian, and Hudson River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (2) (cfs)
Sacandaga at Hope	2,570 (e)	3,570
Sacandaga at Stewarts Bridge	5,250 (e)	1,240
Indian at Indian Lake Dam	400 (e)	220
Hudson at Hadley (1)	6,440 (e)	8,370

Notes: (1) Above confluence with Sacandaga River
 (2) Based on USGS records
 (3) "(e)" represents estimated value

Precipitation

Monthly total precipitation measured 114%, 103%, and 78% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of April 26

Table 4.0 - *Hudson River Basin Precipitation - as of April 26*

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	4.09	3.59
Mayfield	3.88	3.78
Conklingville	2.92	3.74

HUDSON RIVER AREA - APRIL SUMMARY- continued

Operation Overview

Precipitation during the month of April was below normal across the Great Sacandaga Lake watershed and above average in the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 71% and 82% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 432% and 114% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period April 1, 2024 through April 28, 2024 is attached. This report includes projected and forecast values for dates after April 28, 2024.

Hudson River Area Staff Activities

Staff completed routine maintenance and operations activities during the month.

A summary of Regulating District staff activities and work projects at the dam facilities is attached in the Operations Manager's Report.

BLACK RIVER AREA – APRIL SUMMARY

Reservoir Operations

Stillwater Reservoir

The April average daily release from Stillwater Reservoir was approximately 199 cfs. The maximum discharge for the month was 250 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NAVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Mar. 31	1,672.52	+4.34	250
Apr. 30	1,675.4 (e)	-1.8 (e)	100 (e)

Notes: (1) Difference between current reservoir elevation and historic average
(2) "(e)" represents estimated value

Sixth Lake Reservoir

The April average daily release from Sixth Lake Reservoir was approximately 4 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Mar. 31	1,782.85	+0.78	4
Apr. 30	1,785.3 (e)	+0.6 (e)	4 (e)

Notes: (1) Local datum = USGS datum
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

Old Forge Reservoir

The April average daily release from Old Forge Reservoir was approximately 8 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Mar. 31	1,705.00	+1.03	8
Apr. 30	1,706.5 (e)	+0.7 (e)	8 (e)

Notes: (1) Local Datum = USGS elevation
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

BLACK RIVER AREA - APRIL SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 2,770 cfs on April 28.

Table 4.0 - *Moose, Independence, Beaver, and Black River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (1) (cfs)
Moose at McKeever	1,347 (e)	2,175
Beaver at Croghan	460 (e)	826
Black at Watertown	4,930 (e)	9,850

Notes: (1) Based on USGS records
(2) "(e)" represents estimated value
(3) Stage and flow affected by ice in river

Precipitation

Monthly total precipitation measured 76%, 75%, 77% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of April 25.

Table 5.0 - *Black River Basin Precipitation - as of April 25*

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	2.89	3.82
Old Forge	2.97	3.94
Sixth Lake	2.79	3.62

BLACK RIVER AREA - APRIL SUMMARY - continued

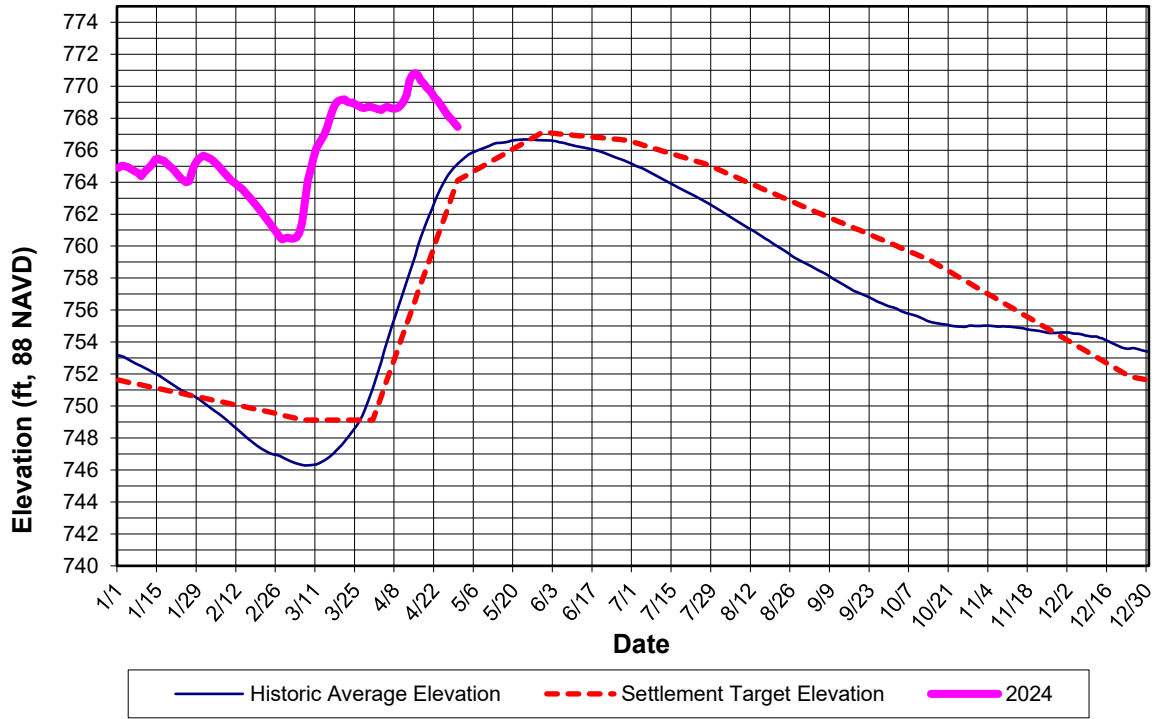
Operation Overview

Precipitation in the month of April was below average at Stillwater and below average at Sixth Lake and Old Forge Reservoir. The monthly inflow to Stillwater Reservoir was approximately 49% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.09 and 0.21 billion cubic feet, or 43% and 49% of historic average, respectively, in April. Release of water from Stillwater Reservoir provided 59% of historic monthly average discharge.

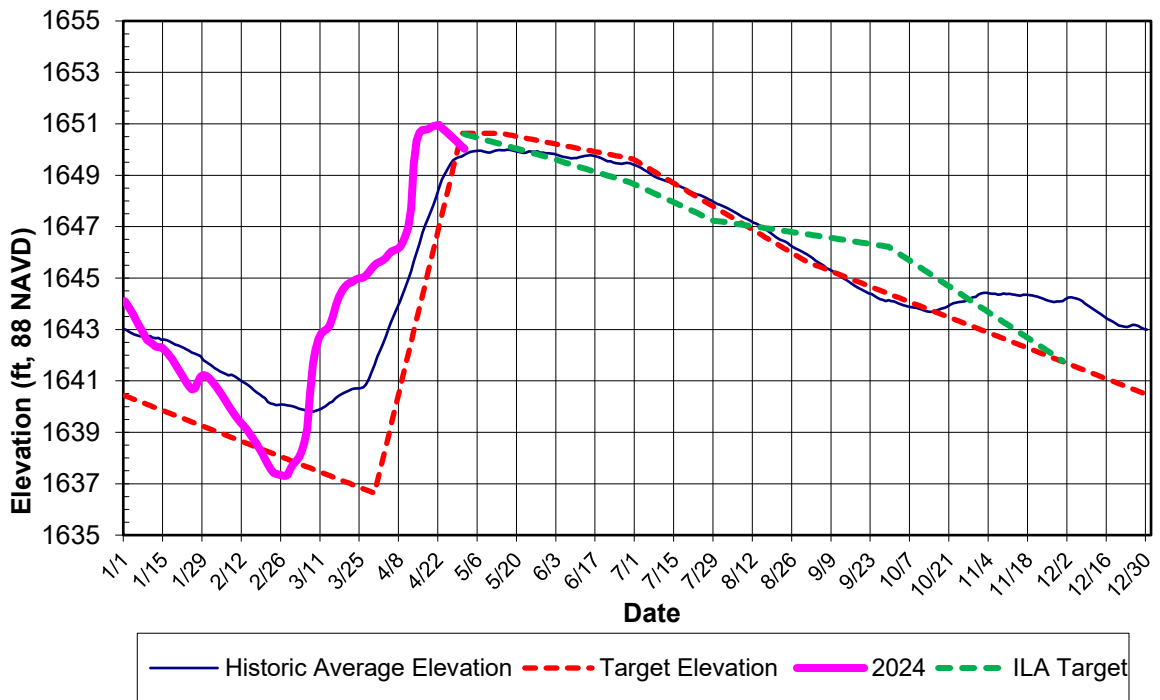
Black River Area Staff Activities

A summary of Regulating District staff activities and work projects at the dam facilities is attached in the Superintendent's Report.

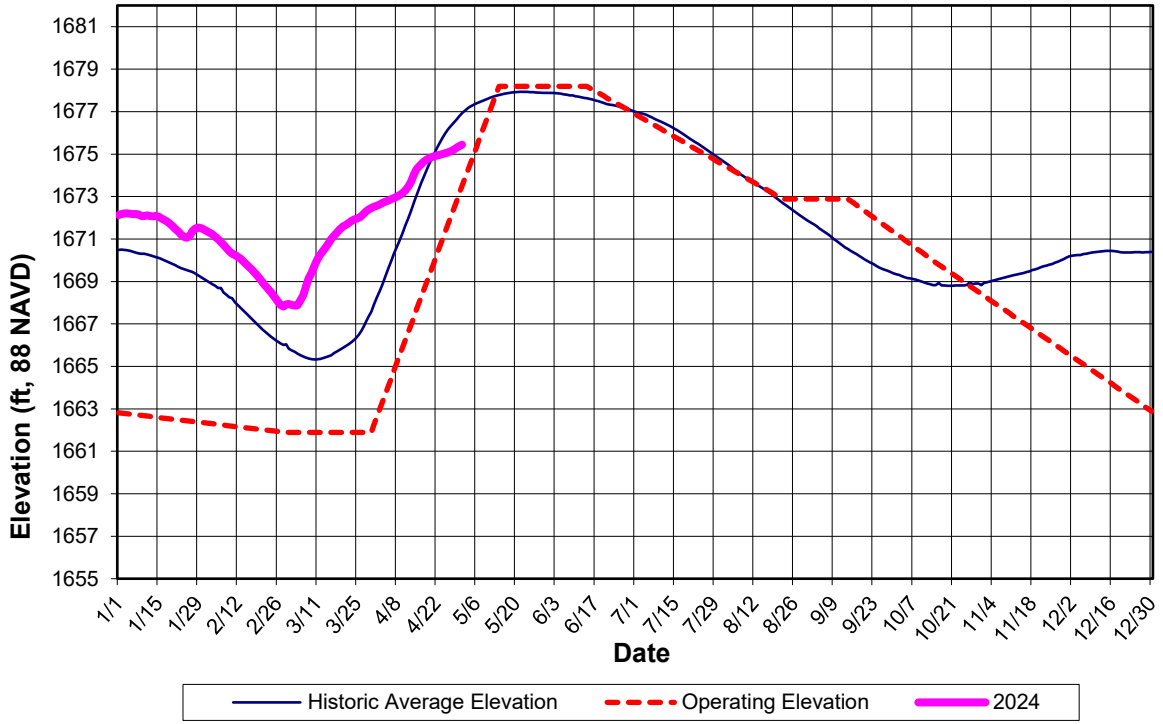
Great Sacandaga Lake 2024 Reservoir Elevation



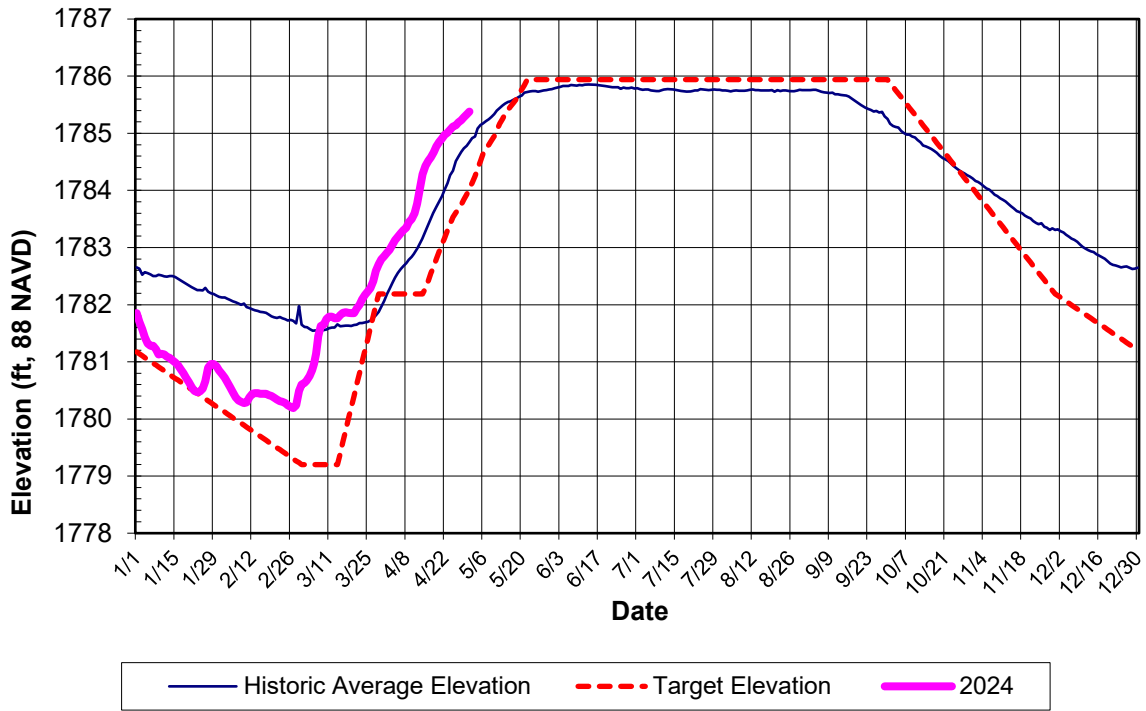
Indian Lake 2024 Reservoir Elevation



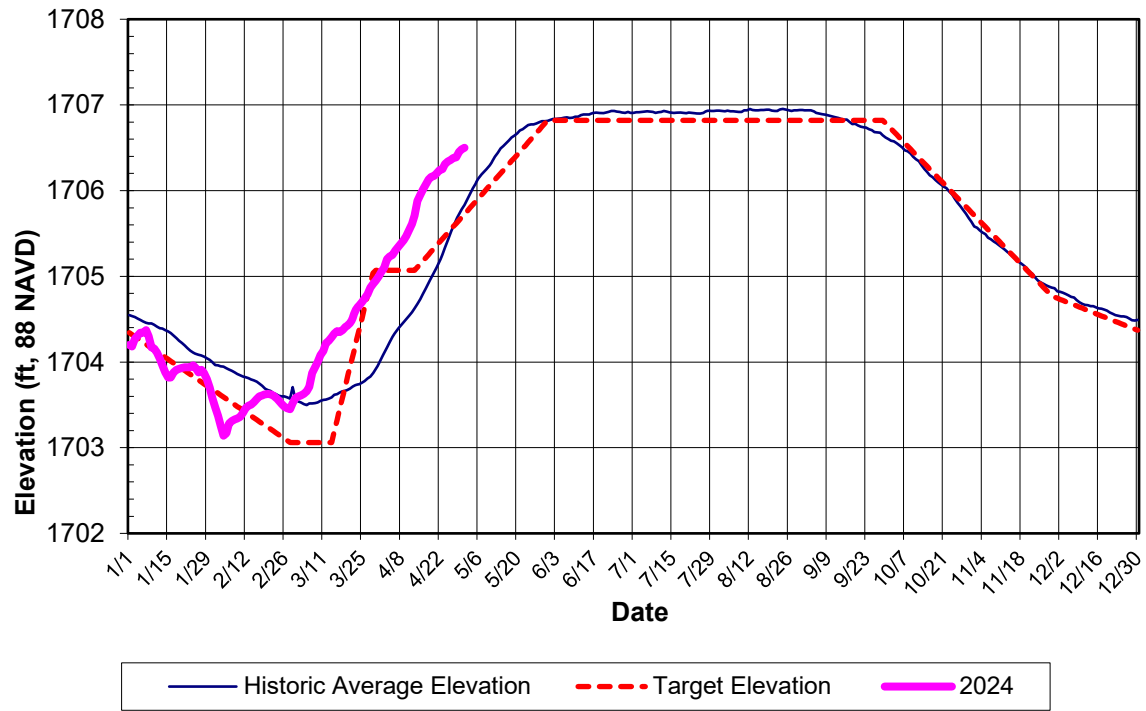
Stillwater Reservoir 2024 Reservoir Elevation



Sixth Lake 2024 Reservoir Elevation



Old Forge 2024 Reservoir Elevation



Indian Lake Dam Rehabilitation – Construction Progress Update

Construction activities during the month of April are summarized in Colliers Engineering & Design Construction Progress Report.

SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum: **1988 NAVD**

Settlement Parameters	
Date	4/29/2024
Target Elevation	763.12
Actual "Level"	3.85
"Level 2.5 threshold"	
"Level 1.2 threshold"	755.17
Hudson River Target	Elevation Level
Maximum Flow (cfs)	8000 22500
Minimum Flow (cfs)	n/a 3700
Min. Rec/Rafting Hours (hrs)	#VALUE!

Rafting Release at Abanakee
North Crk T, Th, Sa., Su.
Hadley M, W, F, Su.

BROOKFIELD HYDRO CONTROL CENTER: 877-816-7466

Whitewater		Daily Avg	
(hrs)	(cfs)	(hrs)	(cfs)
3	806		
4	958		
5	1110		
6	1263		
7	1415		
8	1567		

* 4000 cfs/hr + base flow 350 cfs

Daily Conditions	
Date	4/29/2024
Day of Year	6329
Starting Elevation (ft)	767.78
Average Elevation	767.68
Flow Below Hadley (cfs)	7800
Today's Release	4300
Tomorrows Release	4300

Justin St. John 518-743-2004 (w)
315-396-8194 (cell)
Jonathan Norris 518-743-2094
Jane LaBombard 518-615-9353
Dan McCarty 744-2067 Eric Johnson 863-8791
Piezometers 518-696-6807
Spillway Crest 770.12 ft 88 NAVD

ACTUAL High Value
SCHEDULED Low Value
ESTIMATED Instant. (min + rafting)
TO BE CHANGED

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	E.J. West	Sacandaga River Flow			Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow			Ending Elevation	Ending Date 12:00 AM	Daily Average Elevation	Settlement Target Elevation	Historic Daily Average Elev.	
				Valves	Spillway	Average Release				Maximum (Table F - Elev.)	Minimum (Table C - Level)	Maximum (Table D - Elev.)						Maximum (Table E - Level)
4/1/2024	768.64	2900	4020	0	0	4020	6613	3.85	4760	8780	3700	8900	22500	768.55	4/2/2024	768.60	749.12	751.77
4/2/2024	768.55	3800	4020	0	0	4020	6613	3.85	4500	8520	3680	8800	22100	768.53	4/3/2024	768.54	749.62	752.33
4/3/2024	768.53	4000	4130	0	0	4130	6613	3.85	4380	8510	3680	8800	22100	768.52	4/4/2024	768.53	750.12	752.89
4/4/2024	768.52	5800	3340	0	0	3340	6613	3.85	4790	8130	3680	8900	22100	768.70	4/5/2024	768.61	750.62	753.50
4/5/2024	768.70	4500	4030	0	0	4030	6700	3.84	4810	8840	3680	9100	22100	768.73	4/6/2024	768.72	751.12	754.09
4/6/2024	768.73	3000	4040	0	0	4040	6700	3.84	4640	8680	3680	9100	22100	768.65	4/7/2024	768.69	751.62	754.69
4/7/2024	768.65	3000	4030	0	0	4030	6613	3.83	4580	8610	3660	8900	21700	768.57	4/8/2024	768.61	752.12	755.24
4/8/2024	768.57	5100	4070	0	0	4070	6613	3.83	4810	8880	3660	8900	21700	768.64	4/9/2024	768.61	752.62	755.75
4/9/2024	768.64	4800	3970	0	0	3970	6700	3.82	5310	9280	3640	9100	21300	768.70	4/10/2024	768.67	753.12	756.26
4/10/2024	768.70	6200	2540	0	0	2540	6873	3.82	6130	8670	3640	9400	21300	768.97	4/11/2024	768.84	753.62	756.80
4/11/2024	768.97	5800	3040	0	0	3040	7047	3.82	6930	9970	3620	9800	20900	769.17	4/12/2024	769.07	754.12	757.34
4/12/2024	769.17	15500	4300	1042	0	5342	7480	3.81	10400	15742	3620	20800	20900	769.92	4/13/2024	769.55	754.62	757.87
4/13/2024	769.92	16600	4200	2500	79	6779	8300	3.81	17100	23879	3600	22300	20500	770.64	4/14/2024	770.28	755.12	758.40
4/14/2024	770.64	8700	4000	2350	555	6905	9100	3.81	15400	22305	3600	23100	20500	770.77	4/15/2024	770.71	755.62	758.94
4/15/2024	770.77	7100	4000	2300	650	6950	9300	3.85	11500	18450	3700	23300	22500	770.78	4/16/2024	770.78	756.12	759.49
4/16/2024	770.78	4700	4100	3758	480	8338	9000	3.90	9740	18078	3800	23000	24500	770.51	4/17/2024	770.65	756.62	760.07
4/17/2024	770.51	4600	4300	3550	160	8010	8500	3.87	8330	16340	3740	22500	23300	770.25	4/18/2024	770.38	757.12	760.61
4/18/2024	770.25	4400	4300	3550	0	7850	8000	3.85	7410	15260	3680	22000	22100	769.99	4/19/2024	770.12	757.62	761.08
4/19/2024	769.99	5500	4300	3258	0	7558	7740	3.82	6870	14428	3640	21500	21300	769.83	4/20/2024	769.91	758.12	761.56
4/20/2024	769.83	4400	4300	2500	0	6800	7653	3.80	6530	13330	3580	21200	20100	769.65	4/21/2024	769.74	758.62	762.00
4/21/2024	769.65	2500	4300	2400	0	6700	7393	3.77	6120	12820	3540	20700	19300	769.33	4/22/2024	769.49	759.12	762.42
4/22/2024	769.33	3100	4300	1000	0	5300	7220	3.77	5590	10890	3540	20200	19300	769.16	4/23/2024	769.25	759.62	762.85
4/23/2024	769.16	2300	4300	1000	0	5300	7047	3.74	5160	10460	3480	9800	18100	768.93	4/24/2024	769.05	760.12	763.25
4/24/2024	768.93	2400	4300	1000	0	5300	6787	3.71	4760	10060	3420	9300	16900	768.71	4/25/2024	768.82	760.62	763.63
4/25/2024	768.71	1500	4350	1000	0	5350	6613	3.66	4430	9780	3320	8800	14900	768.42	4/26/2024	768.57	761.12	763.98
4/26/2024	768.42	1500	4300	1000	0	5300	6353	3.61	4080	9380	3220	8300	12900	768.13	4/27/2024	768.28	761.62	764.28
4/27/2024	768.13	2400	4300	0	0	4300	6180	3.56	3830	8130	3120	8000	10900	767.98	4/28/2024	768.06	762.12	764.54
4/28/2024	767.98	1700	4320	0	0	4320	6007	3.52	3630	7950	3020	8000	8900	767.78	4/29/2024	767.88	762.62	764.78
4/29/2024	767.78	1600	4300	0	0	4300	5833	3.47	3500	7800	2920	8000	8420	767.57	4/30/2024	767.68	763.12	764.99
4/30/2024	767.57	1500	4300	0	0	4300	5660	3.42	3200	7500	2820	8000	8320	767.35	5/1/2024	767.46	763.62	765.15
5/1/2024	767.35	1400	4300	0	0	4300	5487	3.37	2900	7200	2720	8000	8220	767.13	5/2/2024	767.24	764.12	765.32
5/2/2024	767.13	1300	4300	0	0	4300	5400	3.35	2600	6900	2700	8000	8200	766.89	5/3/2024	767.32	764.62	765.48
6/6/2020	767.29	500	2000	0	0	2000	5487	3.00	2000	4000	2000	8000	7500	777.12	3/15/2019	#N/A	#N/A	#N/A

Signature: _____

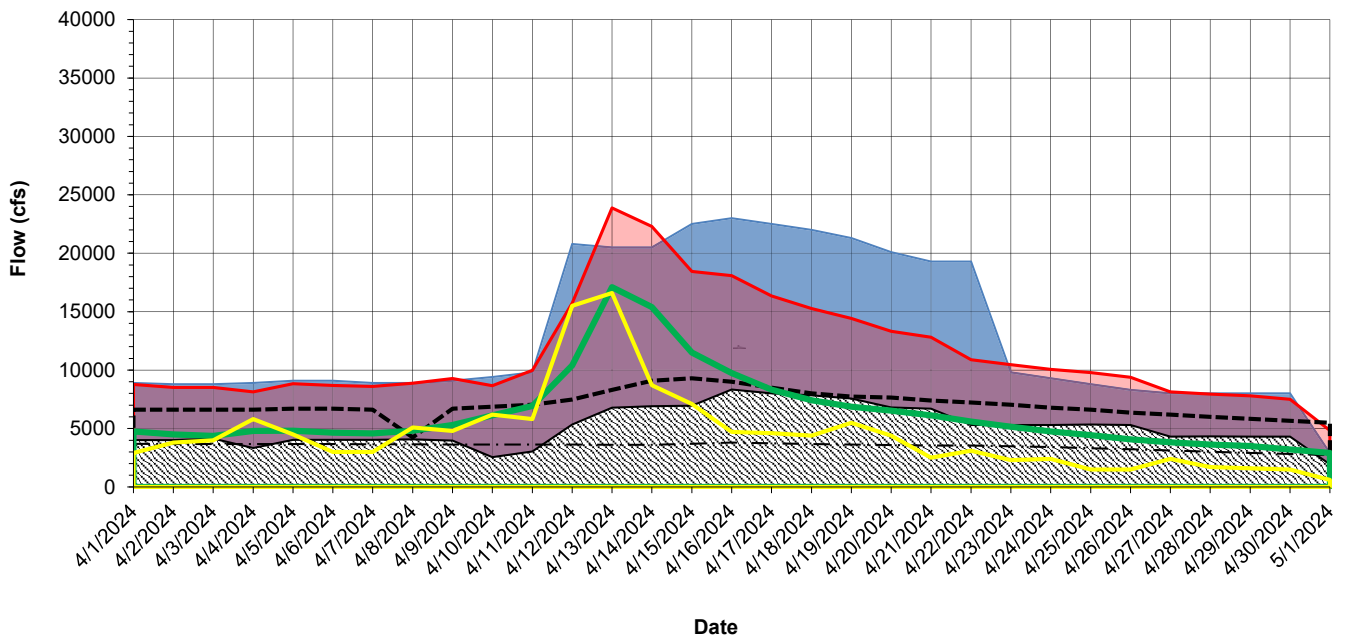
Date: _____

**GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY**

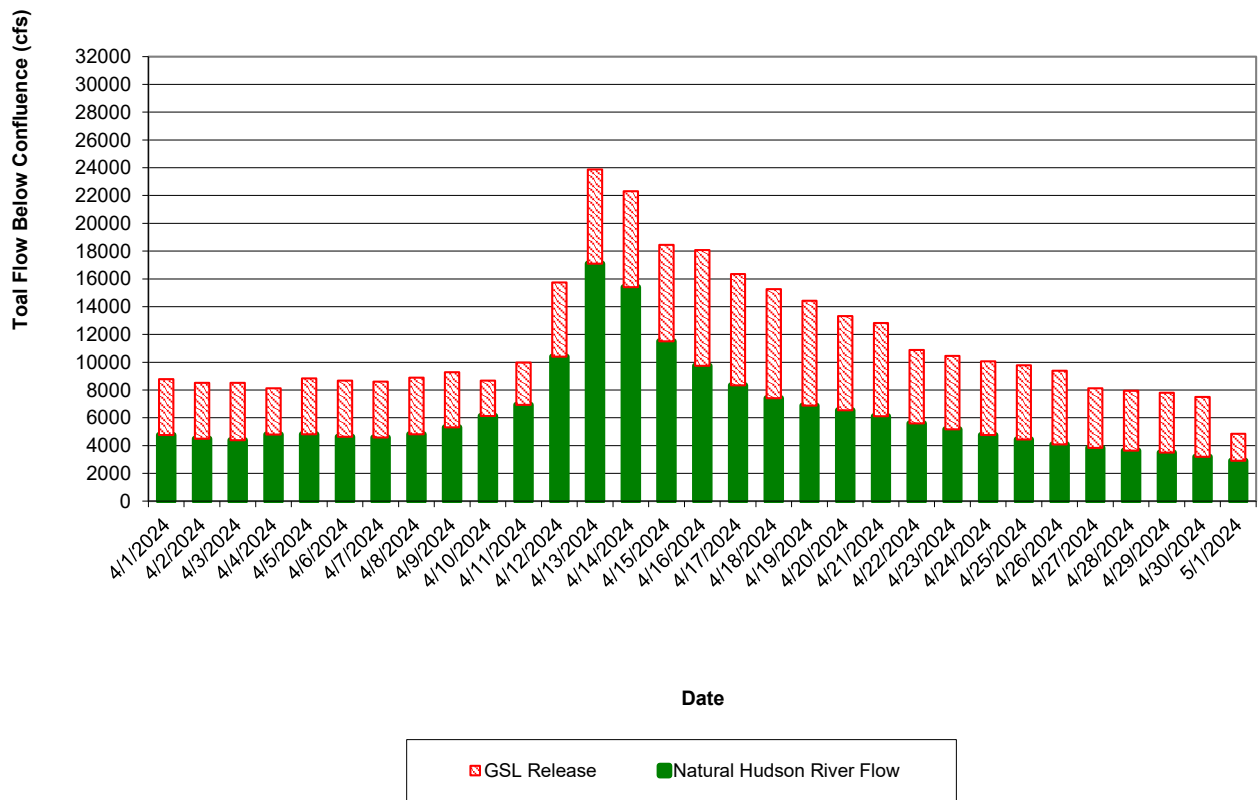
Print Date: 4/29/2024
Period of Record: 4/1/2024 to 4/29/2024

Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	Sacandaga River Flow		Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow		Maximum Allowable Sacandaga
			Average Release	Maximum (Table F - Elev.)				Minimum (Table B - Level)	Maximum (Table D & E)	
4/1/2024	768.60	2900	4020	6613	3.85	4760	8780	3700	8900	6700
4/2/2024	768.54	3800	4020	6613	3.85	4500	8520	3680	8800	6613
4/3/2024	768.53	4000	4130	6613	3.85	4380	8510	3680	8800	6613
4/4/2024	768.61	5800	3340	6613	3.85	4790	8130	3680	8900	6613
4/5/2024	768.72	4500	4030	6700	3.84	4810	8840	3680	9100	6700
4/6/2024	768.69	3000	4040	6700	3.84	4640	8680	3680	9100	6787
4/7/2024	768.61	3000	4030	6613	3.83	4580	8610	3660	8900	6700
4/8/2024	764.67	5100	4070	4233	3.83	4810	8880	3660	8900	6613
4/9/2024	768.67	4800	3970	6700	3.82	5310	9280	3640	9100	6700
4/10/2024	768.84	6200	2540	6873	3.82	6130	8670	3640	9400	6700
4/11/2024	769.07	5800	3040	7047	3.82	6930	9970	3620	9800	6960
4/12/2024	769.55	15500	5342	7480	3.81	10400	15742	3620	20800	7133
4/13/2024	770.28	16600	6779	8300	3.81	17100	23879	3600	20500	7827
4/14/2024	770.71	8700	6905	9100	3.81	15400	22305	3600	20500	9000
4/15/2024	770.78	7100	6950	9300	3.85	11500	18450	3700	22500	9300
4/16/2024	770.65	4700	8338	9000	3.90	9740	18078	3800	23000	9300
4/17/2024	770.38	4600	8010	8500	3.87	8330	16340	3740	22500	8700
4/18/2024	770.12	4400	7850	8000	3.85	7410	15260	3680	22000	8200
4/19/2024	769.91	5500	7558	7740	3.82	6870	14428	3640	21300	7827
4/20/2024	769.74	4400	6800	7653	3.80	6530	13330	3580	20100	7740
4/21/2024	769.49	2500	6700	7393	3.77	6120	12820	3540	19300	7567
4/22/2024	769.25	3100	5300	7220	3.77	5590	10890	3540	19300	7307
4/23/2024	769.05	2300	5300	7047	3.74	5160	10460	3480	9800	7133
4/24/2024	768.82	2400	5300	6787	3.71	4760	10060	3420	9300	6960
4/25/2024	768.57	1500	5350	6613	3.66	4430	9780	3320	8800	6700
4/26/2024	768.28	1500	5300	6353	3.61	4080	9380	3220	8300	6527
4/27/2024	768.06	2400	4300	6180	3.56	3830	8130	3120	8000	6267
4/28/2024	767.88	1700	4320	6007	3.52	3630	7950	3020	8000	6093
4/29/2024	767.68	1600	4300	5833	3.47	3500	7800	2920	8000	5920
4/30/2024	767.46	1500	4300	5660	3.42	3200	7500	2820	8000	5747
5/1/2024	767.24	600	1940	5487	3.37	2900	4840	2720	2880	5573

Great Sacandaga Lake Actual and Maximum Allowable Hudson River Flow Below Confluence



Great Sacandaga Lake GSL Release and Natural Hudson River Flow



**Hudson River Area
Report of the Operations Manager
Sacandaga Field Office at Great Sacandaga Lake
Board Meeting – May 2024**

Activity report for April 2024

SFO

- Cleaned offices and conference room weekly.
- Performed maintenance on vehicles and equipment.
- Conducted snow removal as needed.
- Started lawn maintenance.
- Installed the dock system.
- Finished repairs to the workboat.
- Launched the workboat.

Indian Lake

- Nothing to report

Conklingville Dam

- Read and reported piezometer data including spillway and toe observations daily.
- Conducted snow removal as needed.
- Performed maintenance on vehicles and equipment.
- Opened and closed the dow valves per Chief Engineer's instructions.
- Continued repairing the access road with #3 stone.

Respectfully,

Matthew Ginter

Operations Manager

**Black River Area
Report of the Superintendent
Black River Field Office at the Stillwater Reservoir (BRFO)
April 2024**

- Road maintenance, plowing, raking
- Vehicle/equipment maintenance
- Snow surveys
- Continued barn renovation project
- Finished bridge rail project
- Replaced hinges on South Weir cover
- Finished cleaning and prepping booms for OF/SL
- Continued spring cleanup
- Continued work on budget items
- SW staff gauges and Stevens recorder moved to 1988 NAVD (corrected)
- Monitoring continues: piezometers, weirs, profile surveys, seepage sites.
- Misc. gate changes at Stillwater, O.F. & S.L.
- Daily readings Stillwater, O.F. & S.L.



Engineering
& Design

**Indian River Lake Dam Rehabilitation Project (State ID#169-0758)
Construction Progress Report**

Report No: 06

Period: 3/16/24 through 04/15/24

Date: April 15, 2024

Prepared for: Donald E. Canestrari, John Smith
Bureau of Flood Protection and Dam Safety, Division of Water

Prepared by: Colliers Engineering & Design

On behalf of the Hudson River Black River Regulating District (HRBRRD), Colliers Engineering & Design has prepared this letter in accordance with the requirements of the Dam Safety Permit – Condition 9 – Construction Reports.

Contractor's Progress Schedule, including revisions:

- The most recent construction schedule is dated March 19 (Rejected), and is attached to this progress report. Revision to this schedule is anticipated and updates will be provided once received.

Summary of major work completed during period:

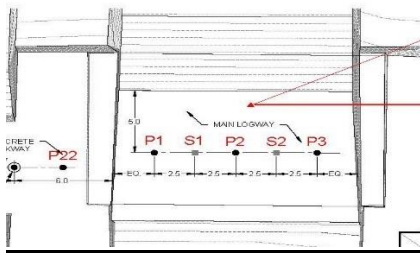
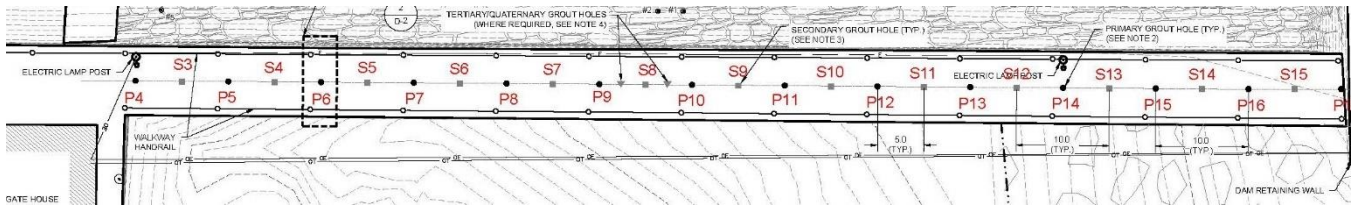
- SWPPP reports. – SWPPP Inspections conducted weekly, and reports located in binder onsite.
- Demolition –Removed second course of stone on spillway piers to allow for drilling of anchors and placement of anchor pads.
- Coring – Continued coring the first 3 feet of primary grout holes in advance of drilling and grouting operations. Completed primary hole 22 in Main logway bridge abutment. Cored to 20' to 25' at primaries 7 and secondaries 9, 8, 7, 6, 5 on Non-overflow section of dam.
- Grouting – Grouted primary hole 22 Main logway bridge abutment. Grouted 20' to 25' at secondaries 8, 9, 6 and 5 on Non-overflow section of dam.
 - Attempted grouting of secondary #7 however due to flow grouting stopped at 18' and did not progress beyond due to grout being washed out.
- Forming – Began forming for concrete placement at spillway piers for anchor pads.
- Divers – Attempted to fill voids in to stop water infiltration on non-overflow section of dam. Attempted to stop water infiltration at main logway sill. Both attempts were unsuccessful and a cofferdam was proposed for the logway area.
- Debris – Removal of debris upstream of main logway sill.

Summary of observations made by the on-site representative:

- Daily reports can be provided upon request.

Summary of observations made by the construction engineer during his site inspections:

- Grouted primary #7 on the non-overflow section of dam to a depth of 25’ and primary #22 on main logway bridge abutment to full depth. Both primaries encountered issues with exfiltration on the downstream side of the dam. Once the leakage was spotted the grout mixture was changed along with stoppage methods being employed. Grouted secondaries #5, #6, #8, and #9 to a depth of 20’ to 25’. All secondaries encountered issues with exfiltration on the downstream side of the dam. Once the leakage was spotted the grout mixture was changed along with stoppage methods being employed. Secondary #7 encountered excessive water flow at the 18’ mark of depth and grouting in this hole came to a stop until additional methods can be employed to slow or stop exfiltration.
- No dam-safety specific visit has been made to the site yet, as the schedule progresses, and more work is performed site visits will be scheduled for priority activities and observations.

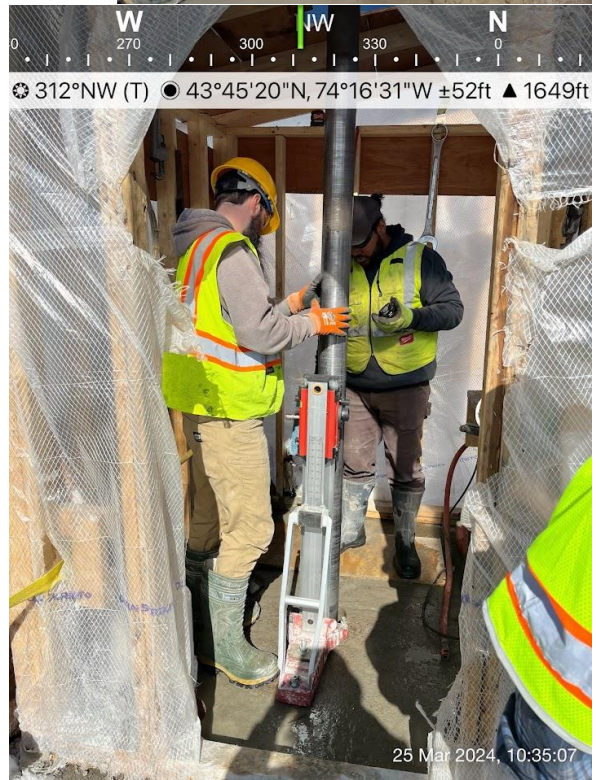
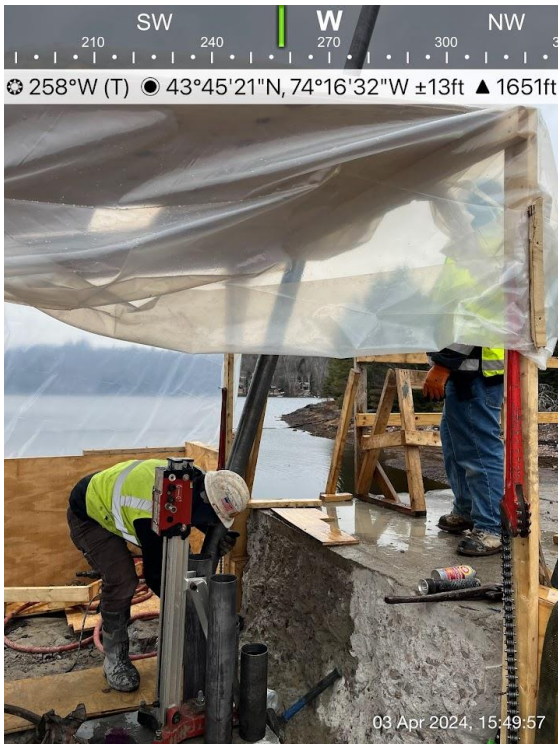
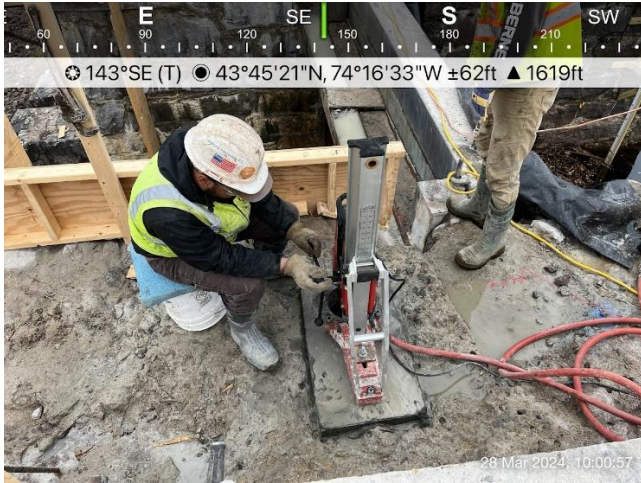


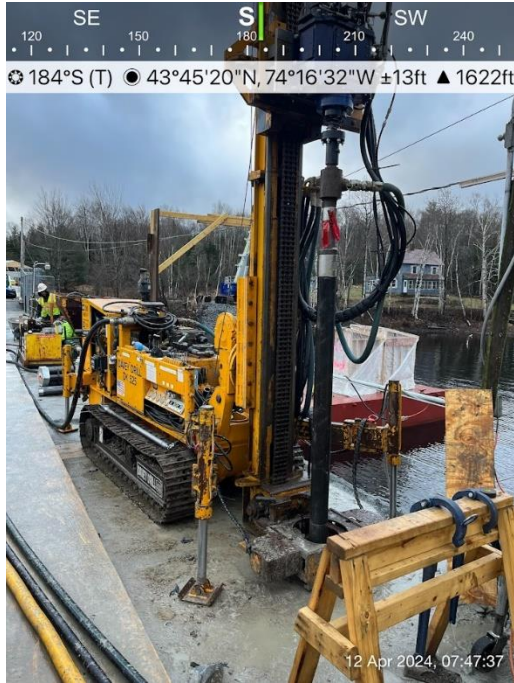
Construction photos:

- Photo 1 (below): Stone removal at spillway piers.
- Photo 2 (below): Installation of forms for anchor seats on piers.
- Photo 3 (below): Installation of forms for anchor seats on piers.

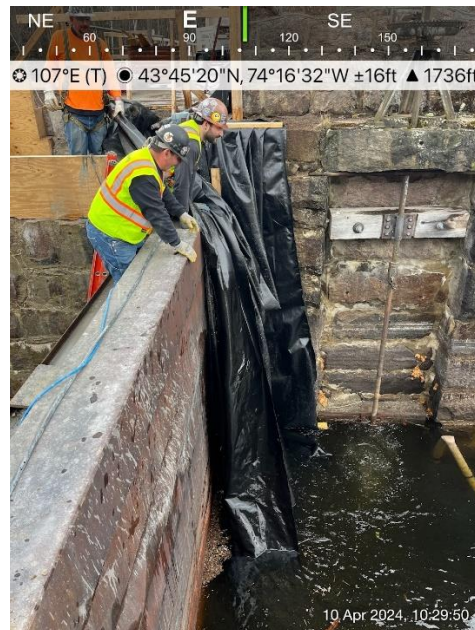
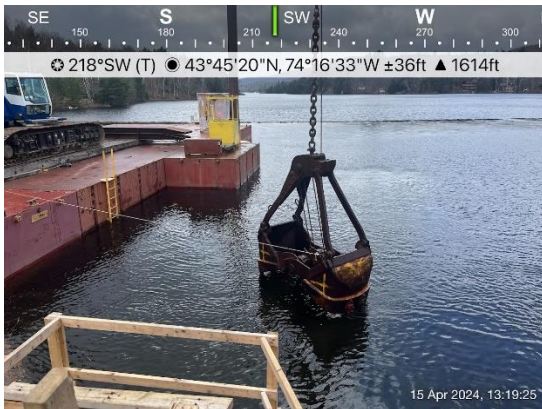


- Photo 4 (below): Core drilling for primary grout hole #22 on main logway bridge abutment.
- Photo 5 (below): Core drilling for secondary #5 non-overflow section.
- Photo 6 (below): Core drilling for primary #22 on main logway bridge abutment.
- Photo 7 (below): Core drilling for secondary #6 non-overflow section.
- Photo 8 (below): Core drilling for primary #4 non-overflow section.
- Photo 9 (below): Removal of core section for primary #7 on non-overflow section.





- Photo 10 (below): Debris removal upstream of main logway sill.
- Photo 11 (below): Installation of plastic liner in attempt to stop water infiltration at existing logway gate.



- Photo 13 (below) – Grouting secondary #6 non-overflow section.
- Photo 14 (below) – Grouting secondary #5 non-overflow section.
- Photo 15 (below) – Grouting secondary #6 non-overflow section.



Copies of all lab and field test results:
Grout Placement: Specific Gravity = 1.7

SECONDARY 8 (3/18)			
Depth	Grout Vol.	Pressure	Ratio
20'	5.74	0	1 to 1
20'	2.26	0	0.8 to 1



20'	1.03	4	0.65 to 1
SECONDARY 8 (3/20)			
Depth	Grout Vol.	Pressure	Ratio
15'	0.41	0	1 to 1
15'	1.03	0	1 to 1
15'	5.33	10	1 to 1
10'	1.85	8	0.65 to 1
5'	2.46	TREMI	0.65 to 1
SECONDARY 9			
Depth	Grout Vol.	Pressure	Ratio
20'	1.23	10	1 to 1
15'	1.03	10	1 to 1
10'	0.62	10	1 to 1
5'	1.44	TREMI	1 to 1
SECONDARY 7			
Depth	Grout Vol.	Pressure	Ratio
20'	1.64	0	1 to 1
20'	1.23	0	0.65 to 1
20'	1.44	0	0.65 to 1 + Celbex
20'	1.03	0	0.65 to 1
20'	0.41	0	0.65 to 1
20'	1.44	0	0.65 to 1 + Celbex
20'	0.82	0	0.65 to 1
20'	0.41	0	0.65 to 1
20'	1.44	0	0.65 to 1 + Celbex
SECONDARY 6			
Depth	Grout Vol.	Pressure	Ratio
25'	0.41	10	1 to 1
20'	1.23	0	1 to 1
20'	3.69	0	0.65 to 1
20'	0.82	0	0.65 to 1



20'	1.44	10	0.65 to 1 + Celbex
15'	0.82	0	0.65 to 1
15'	0.41	0	0.65 to 1
15'	1.44	10	0.65 to 1 + Celbex
10'	0.21	10	1 to 1
5'	0.82	TREMI	1 to 1
SECONDARY 5			
Depth	Grout Vol.	Pressure	Ratio
20'	2.87	10	1 to 1
20'	0.41	10	1 to 1
15'	2.46	10	1 to 1
15'	0.41	10	1 to 1
10	0.82	10	1 to 1
5	1.23	TREMI	1 to 1
PRIMARY 22			
Depth	Grout Vol.	Pressure	Ratio
35'	2.46	10	1 to 1
30'	1.23	10	1 to 1
25'	0.41	2	1 to 1
25'	0.82	10	0.65 to 1
20'	0.82	1	0.65 to 1
20'	1.44	5	0.65 to 1 + Celbex
15'	1.44	10	0.65 to 1 + Celbex
10'	0.41	5	0.65 to 1 + Celbex
PRIMARY 7			
Depth	Grout Vol.	Pressure	Ratio
25'	0.82	8	1 to 1
20'	2.05	5	1 to 1
20'	1.23	8	0.80 to 1
20'	0.82	10	0.65 to 1
15'	2.46	3	0.65 to 1
10'	0.82	8	0.65 to 1
10'	1.86	10	0.65 to 1



5'	1.04	TREMI	0.65 to 1
PRIMARY 22			
Depth	Grout Vol.	Pressure	Ratio
10'	0.82	10	1 to 1
5'	2.87	TREMI	1 to 1

Summary of work planned for the next two (2) weeks:

- Continue coring of primary and secondary grout holes in preparation for grouting operations.
- Continue grouting operations.
- Installation of coffer dam at main logway in preparation for forming sill, walls, and installation of logway gate.

Construction reports will continue to be generated and filed throughout the duration of construction. Please do not hesitate to contact us at (315) 705-3894 should you have any questions or require additional information.

Sincerely,

Daniel J. Gildea

Daniel J. Gildea, PMP
Bergmann Associates
Project Manager

Attachments:

1. Most recent construction schedule.

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR / HUDSON RIVER REGULATION

Monthly Report for: March 2024

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.2688 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	760.52	760.50	1780	4038	3270	3930	7200
2	760.47	760.49	1650	3744	4040	3900	7940
3	760.47	760.47	2150	4878	4020	4120	8140
4	760.55	760.50	3030	6874	4000	4590	8590
5	760.80	760.61	4240	9620	2130	5710	7840
6	761.46	761.09	5280	11979	438	7660	8098
7	762.80	761.85	10500	23822	449	17700	18149
8	764.10	763.61	6510	14770	433	17000	17433
9	764.79	764.47	4550	10323	435	12500	12935
10	765.53	765.05	4110	9325	439	11300	11739
11	766.10	765.85	2980	6761	433	9940	10373
12	766.41	766.26	2540	5763	429	8490	8919
13	766.71	766.54	2440	5536	563	7780	8343
14	767.04	766.84	2780	6307	423	7500	7923
15	767.53	767.28	4520	10255	426	8540	8966
16	768.13	767.92	4000	9075	420	9340	9760
17	768.60	768.33	3430	7782	419	9130	9549
18	768.96	768.82	3020	6852	1500	8490	9990
19	769.09	769.02	2450	5559	2310	7620	9930
20	769.16	769.17	2120	4810	3250	6870	10120
21	769.18	769.30	1820	4129	3420	6170	9590
22	769.01	769.11	1480	3358	4080	5390	9470
23	768.98	768.87	1350	3063	2980	5140	8120
24	768.98	769.08	1340	3040	3910	4890	8800
25	768.84	768.89	1260	2859	3710	4540	8250
26	768.77	768.83	1190	2700	3430	4270	7700
27	768.66	768.64	1440	3267	4360	4540	8900
28	768.63	768.69	1920	4356	3720	5260	8980
29	768.69	768.60	2120	4810	4010	5650	9660
30	768.71	768.76	1900	4311	4020	5460	9480
31	768.68	768.74	1700	3857	4020	5120	9140

AVERAGE 2950 6700 2310 7370 9680

CHANGE IN STORAGE DURING THE MONTH 8.91 B.C.F.

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR REGULATION

Monthly Report for: March, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Indian River at Indian Lake cfs	Hudson River at Newcomb cfs	Regulated Hudson River at North Creek cfs
1	1637.75	1637.68	425	182	384	2000
2	1637.88	1637.82	373	182	385	1950
3	1638.01	1637.93	461	183	355	1860
4	1638.23	1638.09	706	185	378	2020
5	1638.60	1638.39	933	186	543	2870
6	1639.12	1638.82	1672	196	938	4430
7	1640.52	1639.67	3002	206	1940	12100
8	1641.66	1641.24	1589	200	2460	9950
9	1642.21	1641.99	1032	199	1810	6710
10	1642.62	1642.44	806	213	1370	5430
11	1642.84	1642.76	515	219	1080	4020
12	1642.94	1642.92	294	220	817	3180
13	1643.01	1642.96	424	220	674	2830
14	1643.14	1643.07	592	222	598	2730
15	1643.46	1643.27	938	197	744	3690
16	1643.86	1643.67	915	202	1120	4790
17	1644.19	1644.03	753	202	1140	4700
18	1644.43	1644.31	576	202	1020	4150
19	1644.59	1644.50	499	204	834	3490
20	1644.72	1644.65	402	205	680	2960
21	1644.81	1644.75	402	205	563	2540
22	1644.84	1644.86	186	206	446	2090
23	1644.92	1644.85	439	203	413	1910
24	1644.97	1644.96	243	204	368	1810
25	1645.00	1644.98	301	203	340	1620
26	1645.03	1645.03	262	203	323	1570
27	1645.10	1645.06	421	205	359	1720
28	1645.23	1645.17	479	204	491	2140
29	1645.38	1645.31	498	203	576	2430
30	1645.50	1645.46	360	203	538	2380
31	1645.58	1645.54	321	203	471	2190

AVERAGE 672 202 779 3492

1.279 B.C.F

 CHIEF ENGINEER

**STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR / BLACK RIVER REGULATION**

Monthly Report for: March 2024

Day	Stillwater Reservoir Elevation Average Daily	Stillwater Reservoir Elevation Midnight	Stillwater Reservoir Net Inflow cfs	Stillwater Reservoir Release cfs	Black River at Boonville cfs	Beaver River at Croghan cfs	Regulated Black River at Watertown cfs
1	1667.94	1667.93	562	600	1370	1120	6810
2	1667.89	1667.91	504	600	1150	1000	7160
3	1667.86	1667.86	562	600	1200	959	7140
4	1667.88	1667.84	625	396	1300	801	7090
5	1668.10	1667.96	709	250	1430	739	6980
6	1668.35	1668.20	900	250	1600	837	7220
7	1668.79	1668.54	1073	250	2600	889	8310
8	1669.14	1668.97	805	250	2500	858	9060
9	1669.40	1669.26	786	250	1820	593	10100
10	1669.73	1669.54	977	250	2740	753	11000
11	1670.04	1669.92	779	250	2590	827	11100
12	1670.26	1670.16	697	250	1840	600	11000
13	1670.44	1670.35	650	250	1410	543	10200
14	1670.62	1670.52	767	250	1220	588	8850
15	1670.82	1670.74	673	250	1250	673	7710
16	1671.01	1670.92	707	250	1260	674	6990
17	1671.17	1671.11	592	250	1110	567	6580
18	1671.31	1671.25	616	250	1020	486	6160
19	1671.46	1671.40	567	250	962	552	5780
20	1671.58	1671.53	494	250	940	544	5490
21	1671.66	1671.63	445	250	837	458	5000
22	1671.75	1671.71	445	250	711	455	4450
23	1671.85	1671.79	494	250	731	458	3820
24	1671.92	1671.89	397	250	692	434	3560
25	1671.97	1671.95	348	250	701	445	3500
26	1672.02	1671.99	452	250	763	464	3700
27	1672.14	1672.07	580	250	1060	481	4960
28	1672.28	1672.20	631	250	1280	698	5420
29	1672.38	1672.35	428	250	1100	590	5730
30	1672.46	1672.42	453	250	997	599	5550
31	1672.52	1672.50	377	250	854	492	5110

AVERAGE	616	289	1320	650	6820
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CHANGE IN STORAGE DURING THE MONTH 0.88 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SIXTH LAKE RESERVOIR REGULATION

Monthly Report for: March, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1780.60	1780.57	53	0.50	0.50	36
2	1780.63	1780.62	50	0.50	0.50	36
3	1780.68	1780.66	53	0.50	0.50	36
4	1780.76	1780.71	78	0.50	0.50	36
5	1780.90	1780.83	86	0.50	0.50	37
6	1781.07	1780.97	132	0.50	0.50	38
7	1781.45	1781.24	162	0.50	0.50	39
8	1781.63	1781.59	77	1.00	1.00	59
9	1781.65	1781.64	94	1.00	1.00	76
10	1781.75	1781.69	108	1.00	1.00	76
11	1781.79	1781.78	84	1.00	1.00	77
12	1781.79	1781.80	70	1.00	1.00	77
13	1781.76	1781.78	70	1.00	1.00	77
14	1781.76	1781.76	84	1.00	1.00	77
15	1781.82	1781.78	102	1.00	1.00	77
16	1781.86	1781.85	87	1.00	1.00	77
17	1781.87	1781.88	74	1.00	1.00	77
18	1781.86	1781.87	74	1.00	1.00	77
19	1781.85	1781.86	70	1.00	1.00	77
20	1781.85	1781.84	58	0.00	0.08	34
21	1781.93	1781.91	25	0.00	0.08	4
22	1782.00	1781.97	25	0.00	0.08	4
23	1782.09	1782.03	39	0.00	0.08	4
24	1782.17	1782.13	24	0.00	0.08	4
25	1782.23	1782.19	21	0.00	0.08	4
26	1782.29	1782.24	38	0.00	0.08	4
27	1782.41	1782.33	65	0.00	0.08	4
28	1782.59	1782.50	58	0.00	0.08	4
29	1782.71	1782.65	43	0.00	0.08	4
30	1782.79	1782.76	29	0.00	0.08	4
31	1782.85	1782.83	26	0.00	0.08	4

AVERAGE 66 40

CHANGE IN STORAGE DURING THE MONTH 0.076 B.C.F

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE RESERVOIR REGULATION

Monthly Report for: March, 2024

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1703.58	1703.57	128	1.17	1.17	99
2	1703.60	1703.59	113	1.17	1.17	99
3	1703.61	1703.60	128	1.17	1.17	99
4	1703.63	1703.62	158	1.17	1.17	100
5	1703.66	1703.65	129	1.17	1.17	100
6	1703.71	1703.67	289	1.17	1.17	101
7	1703.87	1703.81	261	1.17	1.17	102
8	1703.94	1703.91	190	1.17	1.17	103
9	1704.00	1703.97	234	1.17	1.17	104
10	1704.08	1704.07	179	1.17	1.17	104
11	1704.13	1704.12	230	1.17	1.17	105
12	1704.22	1704.19	193	1.17	1.17	106
13	1704.25	1704.25	120	1.17	1.17	106
14	1704.29	1704.26	164	1.17	1.17	106
15	1704.33	1704.31	152	1.17	1.17	107
16	1704.36	1704.34	152	1.17	1.17	107
17	1704.35	1704.37	137	1.17	1.17	107
18	1704.37	1704.38	153	1.17	1.17	108
19	1704.41	1704.41	122	1.17	1.17	107
20	1704.43	1704.42	109	0.00	0.17	49
21	1704.47	1704.46	98	0.00	0.17	8
22	1704.55	1704.53	68	0.00	0.17	8
23	1704.62	1704.57	127	0.00	0.17	7
24	1704.66	1704.64	52	0.00	0.17	7
25	1704.70	1704.67	67	0.00	0.17	7
26	1704.74	1704.71	97	0.00	0.17	7
27	1704.79	1704.78	97	0.00	0.17	7
28	1704.87	1704.84	142	0.00	0.17	7
29	1704.91	1704.92	7	0.00	0.17	7
30	1704.95	1704.92	113	0.00	0.17	8
31	1705.00	1704.99	53	0.00	0.17	8

AVERAGE 138 68

CHANGE IN STORAGE DURING THE MONTH 0.201 B.C.F

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
FOR WEEK ENDING: April 6, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 30	768.76	36.15	12 AM - Mid	4,020	5,460	9,480
Sunday 31	768.74	36.13	12 AM - Mid	4,020	5,120	9,140
Monday 1	768.62	35.99	12 AM - Mid	4,020	4,760	8,780
Tuesday 2	768.57	35.93	12 AM - Mid	4,020	4,500	8,520
Wednesday 3	768.51	35.86	12 AM - Mid	4,130	4,380	8,510
Thursday 4	768.63	36.00	12 AM - Mid	3,340	4,790	8,130
Friday 5	768.70	36.08	12 AM - Mid	4,030	4,810	8,840
Saturday 6	768.73	36.12	12 AM - Mid	4,040	4,640	8,680
CHANGE IN STORAGE DURING THE WEEK		-0.03	* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	768.73	36.12	6	2021	758.37	24.84
2	2020	763.11	29.84	7	2023	758.18	24.65
3	2022	762.70	29.40	8	2019	756.97	23.42
4	2016	761.36	27.96	9	2018	753.85	20.35
5	2017	759.51	26.02	10	2015	748.29	15.20

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
FOR WEEK ENDING: April 13, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 6	768.73	36.12	12 AM - Mid	4,040	4,640	8,680
Sunday 7	768.59	35.96	12 AM - Mid	4,030	4,580	8,610
Monday 8	768.59	35.96	12 AM - Mid	4,070	4,810	8,880
Tuesday 9	768.64	36.01	12 AM - Mid	3,970	5,310	9,280
Wednesday 10	768.65	36.02	12 AM - Mid	2,540	6,130	8,670
Thursday 11	768.96	36.38	12 AM - Mid	3,040	6,930	9,970
Friday 12	769.14	36.59	12 AM - Mid	5,770	10,400	16,170
Saturday 13	769.92	37.49	12 AM - Mid	6,750	17,100	23,850
CHANGE IN STORAGE DURING THE WEEK		1.38	* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	769.92	37.49	6	2023	763.37	30.13
2	2022	768.74	36.13	7	2019	762.27	28.94
3	2017	766.27	33.32	8	2021	759.15	25.65
4	2020	764.73	31.62	9	2018	755.21	21.67
5	2016	763.71	30.50	10	2015	752.35	18.92

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: April 20, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 13	769.92	37.49	12 AM - Mid	6,750	17,100	23,850
Sunday 14	770.62	38.31	12 AM - Mid	6,910	15,400	22,310
Monday 15	770.70	38.40	12 AM - Mid	6,990	11,500	18,490
Tuesday 16	770.75	38.46	12 AM - Mid	8,370	9,740	18,110
Wednesday 17	770.51	38.18	12 AM - Mid	8,130	8,330	16,460
Thursday 18	770.25	37.88	12 AM - Mid	8,120	7,410	15,530
Friday 19	769.98	37.56	12 AM - Mid	7,670	6,870	14,540
Saturday 20	769.84	37.40	12 AM - Mid	6,800	6,530	13,330
CHANGE IN STORAGE DURING THE WEEK		-0.09	* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	769.84	37.40	6	2023	766.30	33.36
2	2022	769.43	36.93	7	2016	764.58	31.45
3	2017	768.92	36.34	8	2021	761.09	27.67
4	2019	768.91	36.32	9	2015	758.14	24.60
5	2020	766.53	33.61	10	2018	757.96	24.42

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
 Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
FOR WEEK ENDING: April 27, 2024

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 20	769.84	37.40	12 AM - Mid	6,800	6,530	13,330
Sunday 21	769.53	37.04	12 AM - Mid	6,730	6,120	12,850
Monday 22	769.34	36.82	12 AM - Mid	5,270	5,590	10,860
Tuesday 23	769.21	36.67	12 AM - Mid	5,380	5,160	10,540
Wednesday 24	768.99	36.42	12 AM - Mid	5,340	4,760	10,100
Thursday 25	768.72	36.11	12 AM - Mid	5,420	4,430	9,850
Friday 26	768.40	35.74	12 AM - Mid	5,380	4,080	9,460
Saturday 27	768.15	35.45	12 AM - Mid	4,300	3,830	8,130
CHANGE IN STORAGE DURING THE WEEK		-1.95	* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	770.95	38.70	6	2020	765.73	32.72
2	2022	769.45	36.95	7	2016	764.66	31.54
3	2023	769.03	36.46	8	2015	762.26	28.93
4	2017	768.90	36.31	9	2018	762.11	28.76
5	2024	768.15	35.45	10	2021	762.04	28.69

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: April 6, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 30	1,645.46	2.69	12 AM - Mid	202	538	2,380
Sunday 31	1,645.54	2.70	12 AM - Mid	202	471	2,190
Monday 1	1,645.61	2.71	12 AM - Mid	203	421	2,040
Tuesday 2	1,645.66	2.73	12 AM - Mid	203	392	1,940
Wednesday 3	1,645.73	2.74	12 AM - Mid	203	381	1,900
Thursday 4	1,645.83	2.75	12 AM - Mid	204	408	1,990
Friday 5	1,646.00	2.78	12 AM - Mid	204	402	2,040
Saturday 6	1,646.06	2.79	12 AM - Mid	204	376	1,990

CHANGE IN STORAGE DURING THE WEEK	0.10	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,649.93	3.50	6	2017	1,642.84	2.25
2	2022	1,648.21	3.17	7	2018	1,642.47	2.19
3	2024	1,646.06	2.79	8	2023	1,639.42	1.72
4	2020	1,645.64	2.72	9	2015	1,638.93	1.65
5	2021	1,644.63	2.55	10	2019	1,637.64	1.45

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: April 13, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 6	1,646.06	2.79	12 AM - Mid	204	376	1,990
Sunday 7	1,646.10	2.80	12 AM - Mid	204	350	1,760
Monday 8	1,646.16	2.81	12 AM - Mid	168	360	1,800
Tuesday 9	1,646.28	2.83	12 AM - Mid	150	416	2,280
Wednesday 10	1,646.49	2.87	12 AM - Mid	150	563	2,980
Thursday 11	1,646.78	2.92	12 AM - Mid	150	828	3,940
Friday 12	1,647.22	3.00	12 AM - Mid	150	1,440	7,260
Saturday 13	1,648.55	3.24	12 AM - Mid	150	3,260	13,300

CHANGE IN STORAGE DURING THE WEEK	0.44	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,651.03	3.72	6	2021	1,645.72	2.74
2	2016	1,650.16	3.55	7	2023	1,643.60	2.37
3	2024	1,648.55	3.24	8	2018	1,642.64	2.22
4	2020	1,647.31	3.01	9	2019	1,641.64	2.06
5	2017	1,647.16	2.99	10	2015	1,640.76	1.92

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: April 20, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 13	1,648.55	3.24	12 AM - Mid	150	3,260	13,300
Sunday 14	1,650.05	3.52	12 AM - Mid	378	2,920	9,360
Monday 15	1,650.55	3.62	12 AM - Mid	577	1,920	6,550
Tuesday 16	1,650.74	3.66	12 AM - Mid	579	1,400	5,120
Wednesday 17	1,650.77	3.67	12 AM - Mid	600	1,090	3,920
Thursday 18	1,650.75	3.67	12 AM - Mid	596	861	3,310
Friday 19	1,650.83	3.68	12 AM - Mid	585	763	3,020
Saturday 20	1,650.89	3.69	12 AM - Mid	580	740	2,950

CHANGE IN STORAGE DURING THE WEEK	0.46	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,651.04	3.73	6	2023	1,647.71	3.08
2	2024	1,650.89	3.69	7	2021	1,647.68	3.08
3	2016	1,649.74	3.46	8	2019	1,647.61	3.07
4	2020	1,649.42	3.40	9	2015	1,645.28	2.66
5	2017	1,648.66	3.26	10	2018	1,643.87	2.42

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: April 27, 2024

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 20	1,650.89	3.69	12 AM - Mid	580	740	2,950
Sunday 21	1,650.92	3.70	12 AM - Mid	575	755	2,770
Monday 22	1,650.94	3.71	12 AM - Mid	572	627	2,490
Tuesday 23	1,650.87	3.69	12 AM - Mid	580	497	2,320
Wednesday 24	1,650.79	3.67	12 AM - Mid	578	419	2,110
Thursday 25	1,650.71	3.66	12 AM - Mid	572	403	2,000
Friday 26	1,650.59	3.63	12 AM - Mid	567	380	1,790
Saturday 27	1,650.47	3.61	12 AM - Mid	558	337	1,770

CHANGE IN STORAGE DURING THE WEEK	-0.09	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,651.57	3.84	6	2020	1,649.45	3.41
2	2022	1,651.00	3.72	7	2017	1,649.37	3.39
3	2024	1,650.47	3.61	8	2021	1,648.55	3.24
4	2023	1,649.98	3.51	9	2015	1,647.99	3.13
5	2016	1,649.67	3.45	10	2018	1,647.29	3.01

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **April 6, 2024**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 30	1,672.42	3.06	12 AM -Mid	250	599	5,550
Sunday 31	1,672.50	3.08	12 AM -Mid	250	492	5,110
Monday 1	1,672.55	3.09	12 AM -Mid	250	445	4,330
Tuesday 2	1,672.61	3.10	12 AM -Mid	250	362	3,690
Wednesday 3	1,672.64	3.11	12 AM -Mid	250	394	3,470
Thursday 4	1,672.72	3.13	12 AM -Mid	250	442	3,940
Friday 5	1,672.78	3.14	12 AM -Mid	221	502	4,870
Saturday 6	1,672.83	3.15	12 AM -Mid	200	496	5,200

CHANGE IN STORAGE DURING THE WEEK	0.09	
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,676.38	4.00	6	2021	1,671.60	2.88
2	2022	1,674.76	3.60	7	2020	1,669.81	2.52
3	2017	1,673.92	3.40	8	2023	1,669.35	2.44
4	2018	1,673.17	3.23	9	2019	1,665.03	1.73
5	2024	1,672.83	3.15	10	2015	1,659.38	0.83

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: April 13, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 6	1,672.83	3.15	12 AM -Mid	200	496	5,200
Sunday 7	1,672.90	3.17	12 AM -Mid	200	476	5,270
Monday 8	1,672.96	3.18	12 AM -Mid	200	387	4,970
Tuesday 9	1,673.02	3.19	12 AM -Mid	200	396	4,370
Wednesday 10	1,673.11	3.21	12 AM -Mid	200	424	4,190
Thursday 11	1,673.21	3.24	12 AM -Mid	200	433	4,490
Friday 12	1,673.37	3.27	12 AM -Mid	200	592	5,470
Saturday 13	1,673.56	3.32	12 AM -Mid	200	816	6,930

CHANGE IN STORAGE DURING THE WEEK	0.17	
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,677.27	4.23	6	2023	1,673.01	3.19
2	2022	1,676.64	4.07	7	2021	1,672.79	3.14
3	2017	1,676.38	4.00	8	2020	1,670.90	2.74
4	2024	1,673.56	3.32	9	2019	1,668.10	2.23
5	2018	1,673.51	3.31	10	2015	1,662.76	1.35

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: April 20, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 13	1,673.56	3.32	12 AM -Mid	200	816	6,930
Sunday 14	1,673.88	3.39	12 AM -Mid	200	1,050	8,390
Monday 15	1,674.19	3.47	12 AM -Mid	200	903	9,000
Tuesday 16	1,674.38	3.51	12 AM -Mid	200	541	8,800
Wednesday 17	1,674.51	3.54	12 AM -Mid	200	461	7,750
Thursday 18	1,674.64	3.57	12 AM -Mid	200	422	6,680
Friday 19	1,674.74	3.60	12 AM -Mid	225	453	5,890
Saturday 20	1,674.81	3.61	12 AM -Mid	250	472	5,290

CHANGE IN STORAGE DURING THE WEEK	0.29	
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,677.68	4.34	6	2023	1,674.59	3.56
2	2016	1,677.54	4.30	7	2021	1,673.95	3.41
3	2017	1,677.28	4.23	8	2019	1,672.84	3.15
4	2024	1,674.81	3.61	9	2020	1,672.40	3.06
5	2018	1,674.69	3.58	10	2015	1,668.38	2.28

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: April 27, 2024

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 20	1,674.81	3.61	12 AM -Mid	250	472	5,290
Sunday 21	1,674.88	3.63	12 AM -Mid	250	487	5,080
Monday 22	1,674.90	3.63	12 AM -Mid	250	428	4,600
Tuesday 23	1,674.95	3.65	12 AM -Mid	250	344	4,060
Wednesday 24	1,674.98	3.65	12 AM -Mid	250	388	3,520
Thursday 25	1,675.01	3.66	12 AM -Mid	175	367	3,470
Friday 26	1,675.06	3.67	12 AM -Mid	100	274	3,300
Saturday 27	1,675.12	3.69	12 AM -Mid	100	214	2,990

CHANGE IN STORAGE DURING THE WEEK	0.08	
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,678.71	4.62	6	2019	1,675.70	3.83
2	2016	1,677.57	4.31	7	2024	1,675.12	3.69
3	2017	1,677.52	4.30	8	2021	1,674.67	3.58
4	2018	1,675.88	3.88	9	2020	1,672.95	3.18
5	2023	1,675.87	3.87	10	2015	1,671.37	2.84

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: April 6, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 30	1,704.92	0.650	8	1,782.76	0.200	4
Sunday 31	1,704.99	0.659	8	1,782.83	0.202	4
Monday 1	1,705.03	0.663	8	1,782.89	0.204	4
Tuesday 2	1,705.07	0.668	8	1,782.94	0.206	4
Wednesday 3	1,705.14	0.678	8	1,782.97	0.206	4
Thursday 4	1,705.21	0.688	8	1,783.10	0.211	4
Friday 5	1,705.24	0.691	8	1,783.16	0.212	4
Saturday 6	1,705.27	0.694	8	1,783.22	0.214	4
CHANGE IN STORAGE		0.044			0.014	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	1,705.27	0.694	1	2024	1,783.22	0.214
2	2021	1,704.71	0.623	2	2023	1,782.56	0.194
3	2022	1,704.64	0.613	3	2021	1,782.34	0.187
4	2020	1,704.43	0.586	4	2022	1,781.95	0.175
5	2023	1,704.41	0.584	5	2020	1,781.90	0.174

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION
 FOR WEEK ENDING: April 13, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 6	1,705.27	0.694	8	1,783.22	0.214	4
Sunday 7	1,705.32	0.701	8	1,783.27	0.216	4
Monday 8	1,705.36	0.706	8	1,783.31	0.217	4
Tuesday 9	1,705.40	0.712	8	1,783.39	0.220	4
Wednesday 10	1,705.46	0.720	8	1,783.46	0.222	4
Thursday 11	1,705.48	0.723	8	1,783.56	0.225	4
Friday 12	1,705.56	0.732	8	1,783.67	0.228	4
Saturday 13	1,705.67	0.747	8	1,783.90	0.235	4
CHANGE IN STORAGE		0.053			0.021	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	1,705.67	0.747	1	2024	1,783.90	0.235
2	2022	1,705.24	0.691	2	2022	1,782.91	0.205
3	2021	1,705.07	0.668	3	2021	1,782.84	0.202
4	2020	1,704.83	0.638	4	2020	1,782.34	0.187
5	2023	1,704.62	0.610	5	2023	1,782.28	0.185

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
 SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION
FOR WEEK ENDING: April 20, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 13	1,705.67	0.747	8	1,783.90	0.235	4
Sunday 14	1,705.81	0.764	8	1,784.16	0.243	4
Monday 15	1,705.93	0.781	8	1,784.36	0.250	4
Tuesday 16	1,706.00	0.790	8	1,784.48	0.254	4
Wednesday 17	1,706.05	0.795	8	1,784.56	0.256	4
Thursday 18	1,706.12	0.805	8	1,784.60	0.257	4
Friday 19	1,706.15	0.810	8	1,784.73	0.262	4
Saturday 20	1,706.18	0.815	8	1,784.81	0.264	4
CHANGE IN STORAGE		0.067			0.029	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2024	1,706.18	0.815	1	2024	1,784.81	0.264
2	2022	1,705.76	0.759	2	2022	1,783.72	0.230
3	2021	1,705.53	0.728	3	2021	1,783.63	0.227
4	2020	1,705.29	0.697	4	2020	1,782.99	0.207
5	2023	1,704.96	0.655	5	2023	1,782.49	0.192

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: April 27, 2024

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 20	1,706.18	0.815	8	1,784.81	0.264	4
Sunday 21	1,706.21	0.819	8	1,784.89	0.267	4
Monday 22	1,706.23	0.821	8	1,784.94	0.268	4
Tuesday 23	1,706.26	0.825	8	1,784.99	0.270	4
Wednesday 24	1,706.30	0.829	8	1,785.02	0.271	4
Thursday 25	1,706.33	0.833	8	1,785.10	0.273	4
Friday 26	1,706.35	0.836	8	1,785.13	0.274	4
Saturday 27	1,706.37	0.839	8	1,785.17	0.275	4
CHANGE IN STORAGE		0.025			0.011	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,706.39	0.843	1	2024	1,785.17	0.275
2	2024	1,706.37	0.839	2	2022	1,784.74	0.262
3	2021	1,705.75	0.758	3	2023	1,784.15	0.243
4	2023	1,705.62	0.740	4	2021	1,783.97	0.238
5	2020	1,705.60	0.737	5	2020	1,783.29	0.216

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER