



North Carolina Department of Environment and Natural Resources
Division of Water Resources

Pat McCrory
Governor

Thomas A. Reeder
Director

John E. Skvarla, III
Secretary

ENO RIVER ANNUAL WATER USERS MEETING

September 5, 2013 10:00 A.M.
Hillsborough, NC

Meeting Minutes

Attendees:

Linwood Peele & Wayne Howard – Division of Water Resources (DWR);
Dave Cook & Jimmy Dodson – Division of Parks and Recreation (DPR);
Kevin Lindley & Tom Davis – Orange County;
Kenny Keel & Julie Laws – Town of Hillsborough;
Faye Metcalf & Dale Hamby – Orange-Alamance;
Robin Jacobs – Eno River Association;
Buzz Koenig & Ken Terlep – Friends of Lake Orange;
John Tolar – Lake Orange, Inc.

- Linwood Peele convened the meeting;
 - Welcomed all participants and attendees and thanked the staff of the Town of Hillsborough for hosting the annual meeting.
- Introductions.

Historical Operations:

- Kevin Lindley provided a brief historical summary and overview of the Eno River Voluntary Capacity Use Agreement;
 - Agreement formed through compromise between all water systems and water users for usage in order to keep the Eno River from running dry which it had previously done;
 - Study submitted to EMC resulting in a Voluntary Capacity Use Area (c. 1988);
 - Agreement limits withdrawals of users;
 - Based on Eno River flows and Lake Orange Reservoir level;
 - Minimum flows maintained through Lake Orange Reservoir and West Fork Eno Reservoir releases.
- Lake Orange Reservoir full all summer;
 - Gates opened remotely to be exercised (~ 2 minutes);
- Lake Orange Reservoir spillway repairs holding well;
 - Planning to clear trees along spillway this year, weather permitting.

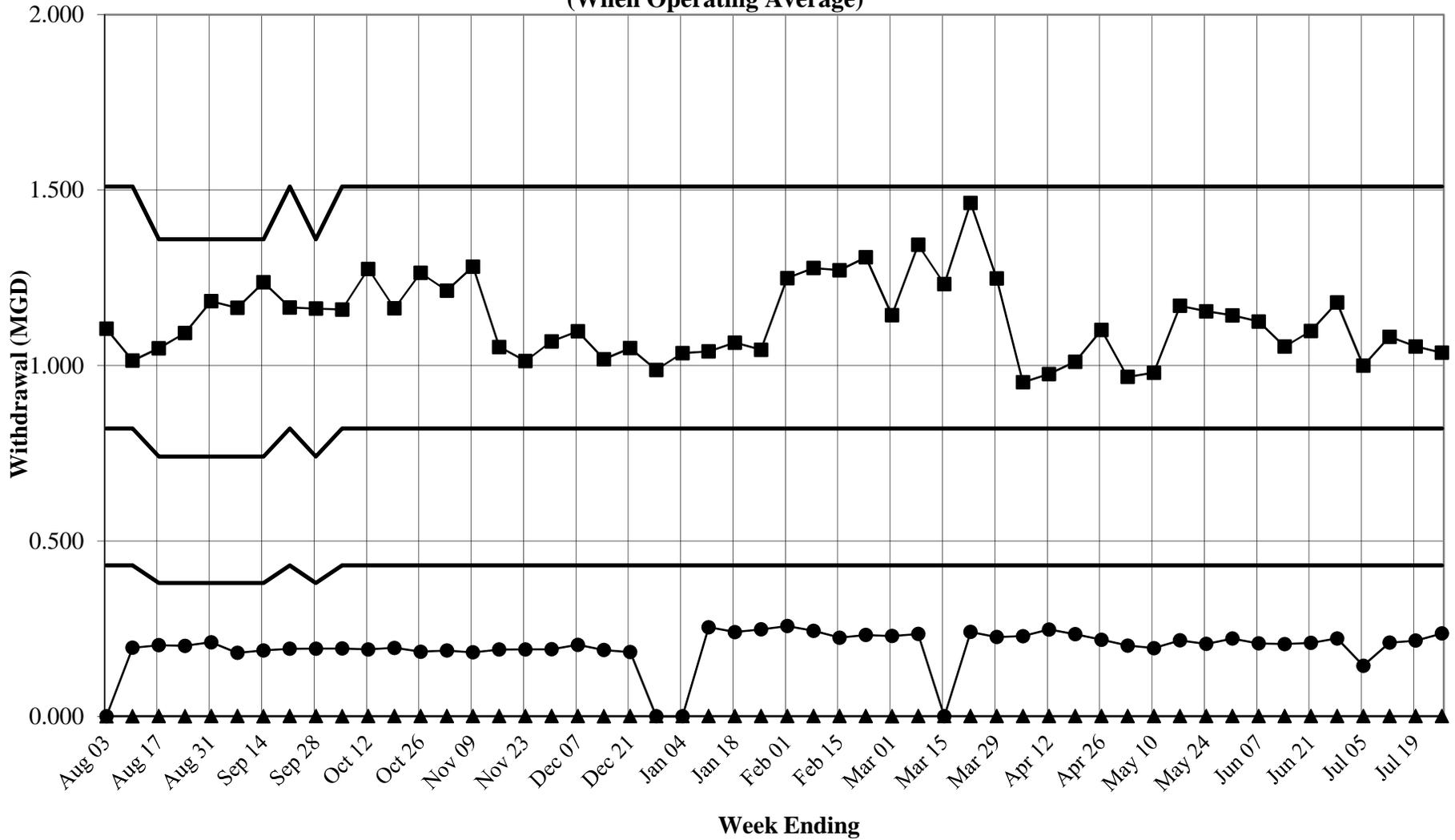
ENO RIVER ANNUAL WATER USERS MEETING
SEPTEMBER 5, 2013

Water Use & Stream Flow Report:

- Wayne Howard provided and discussed several graphs and tables;
 - **Graph 1:** Eno River Average Weekly Withdrawals (When Operating Average); August 2012 – July 2013 with level of restrictions.
 - **Graph 2:** Eno River Average Weekly Withdrawals (7-day Average); August 2012 – July 2013 with level of restrictions.
 - **Graphs 3 & 4:** Eno River @ Hillsborough Gage #02085000; Flow vs. Date (flow less than 10 cfs for August 2012 – July 2013).
 - **Table 1:** Summary for Stages of Restriction. (August 2012 – July 2013); Provided number of weeks at each level of restrictions. Provided average and total use for the Eno River Users.

ENO RIVER AVERAGE WEEKLY WITHDRAWALS

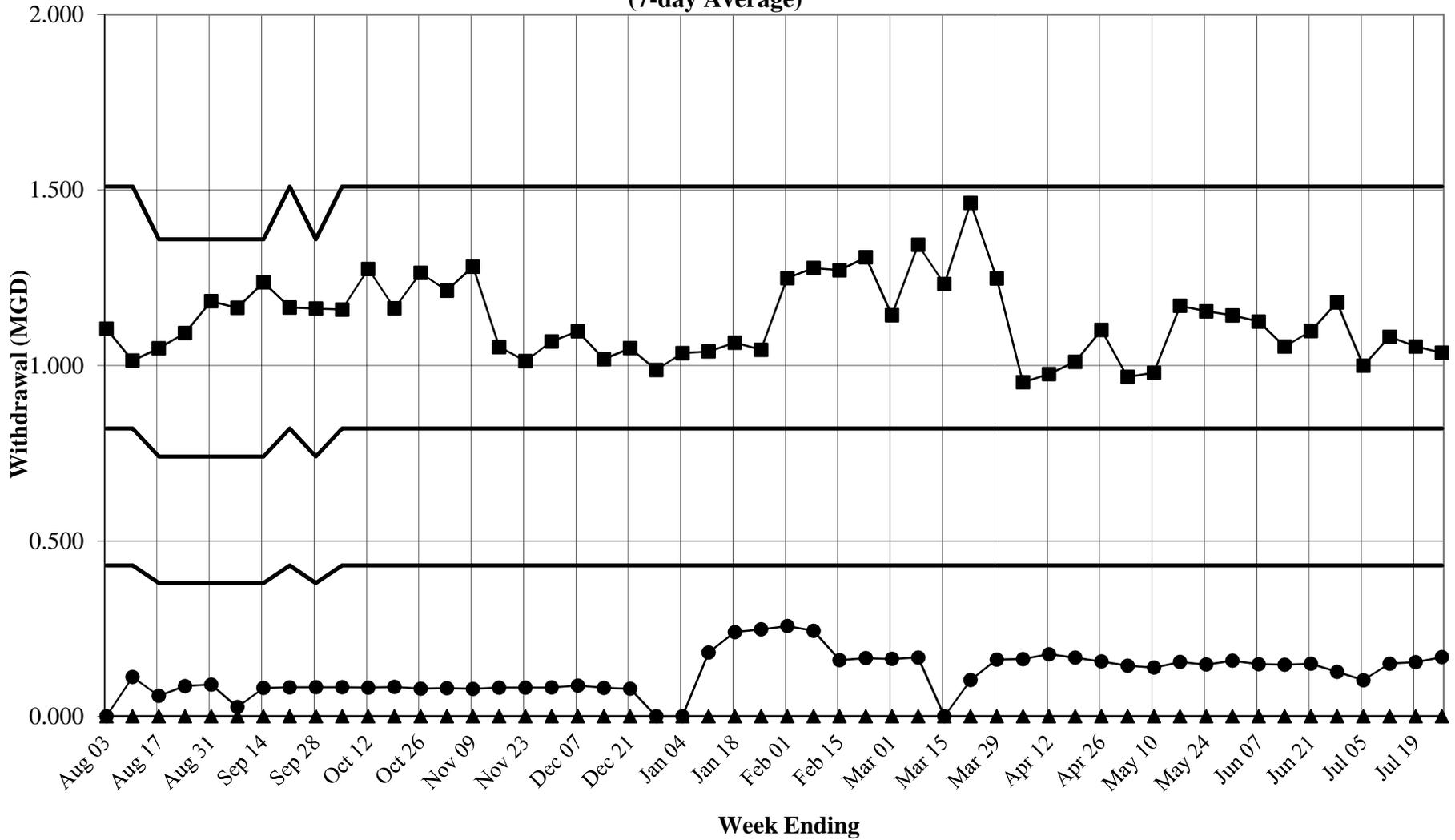
August 2012 - July 2013
(When Operating Average)



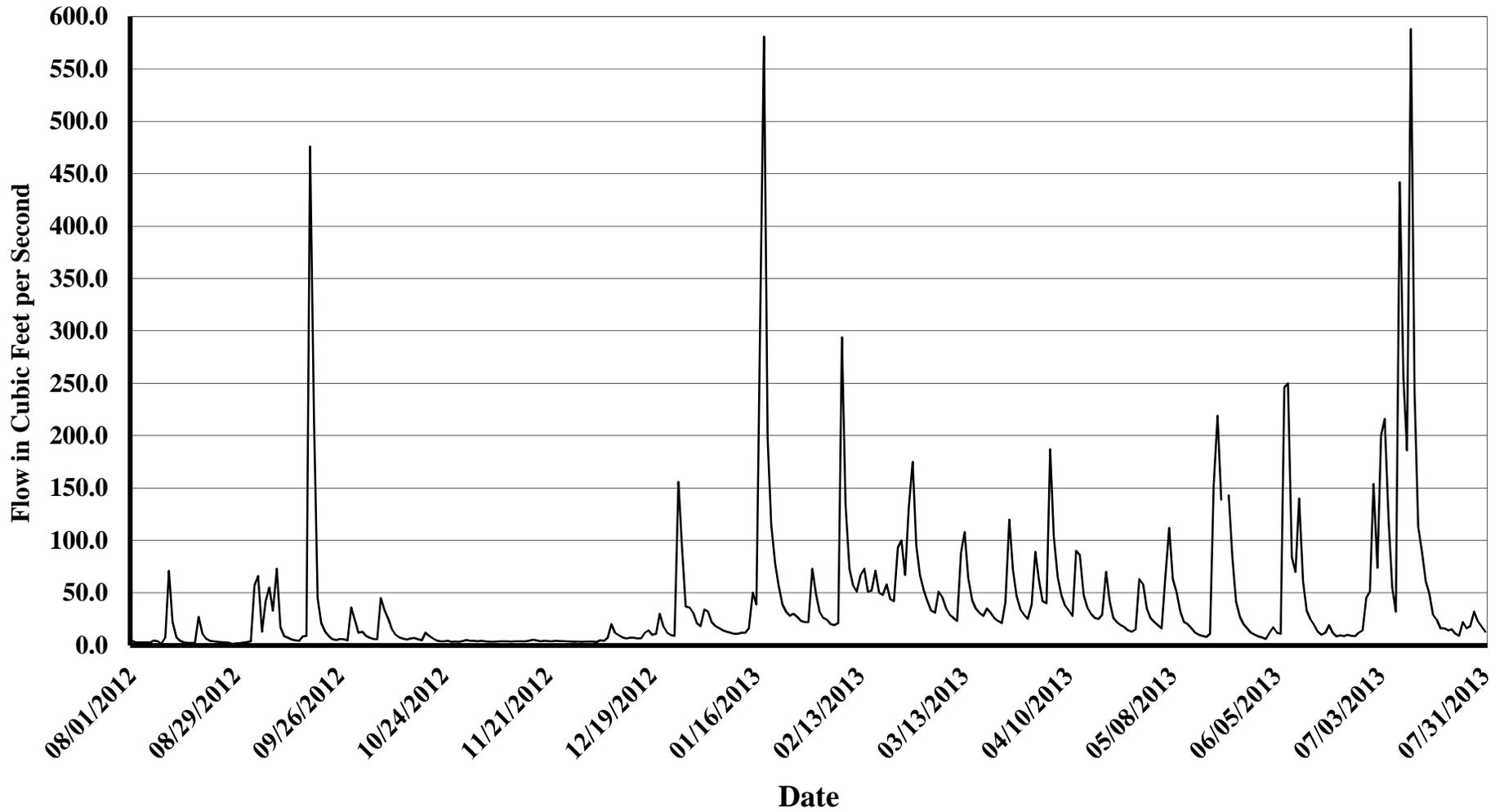
ENO RIVER AVERAGE WEEKLY WITHDRAWALS

August 2012 - July 2013

(7-day Average)

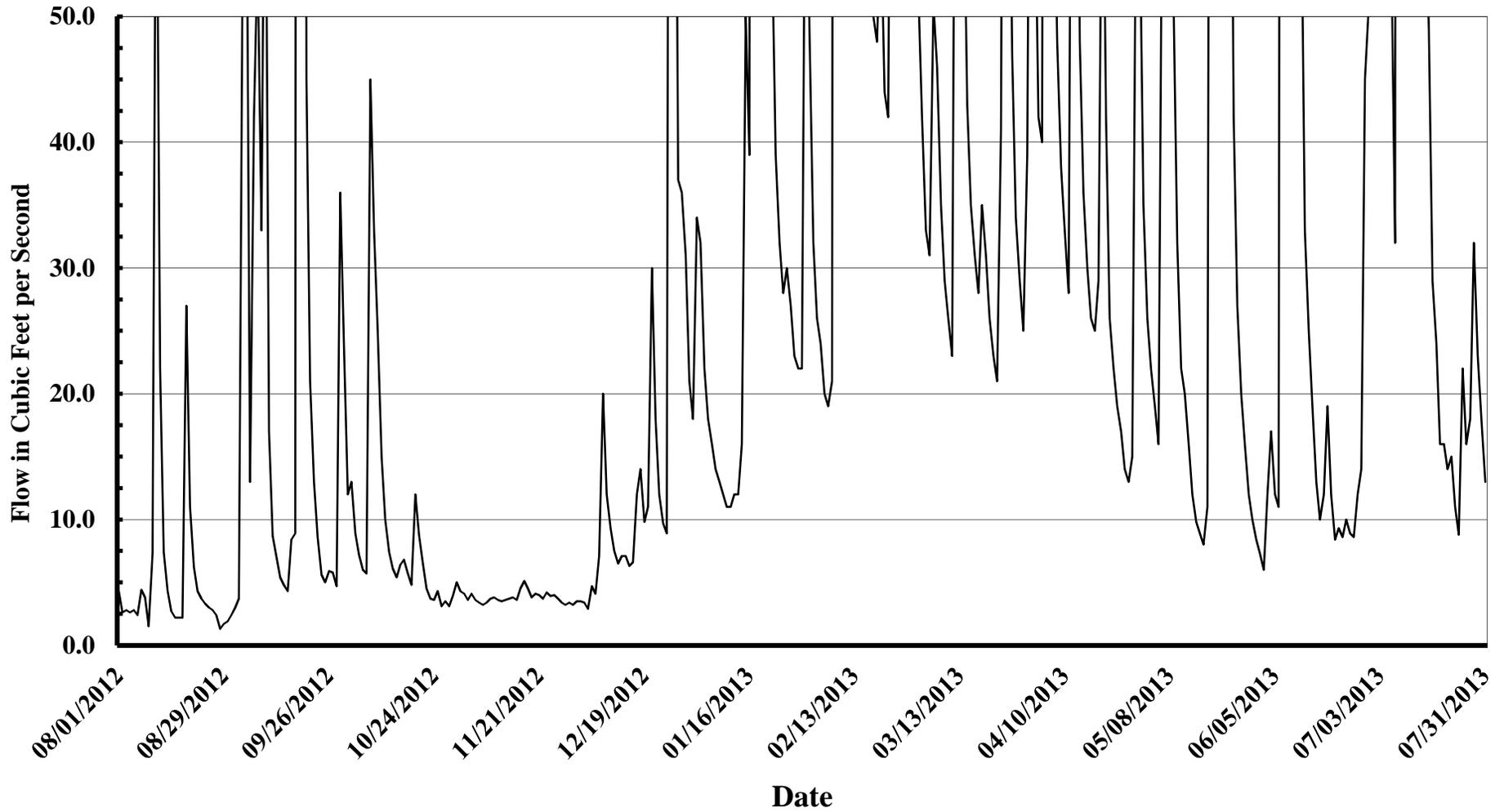


ENO RIVER @ HILLSBOROUGH, #02085000
August 1, 2012 - July 31, 2013



08/01/12-09/30/12: USGS data approved for publication.
10/01/12-07/31/13: USGS provisional data subject to revision.

ENO RIVER @ HILLSBOROUGH, #02085000
August 1, 2012 - July 31, 2013



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ENO RIVER ANNUAL SUMMARY REPORT
May 2013 – July 2013
September 5, 2013

Month	Dates of Restrictions:		
	No Restrictions	Stage 1	Stage 2
August 2012		01 – 10	11-31
September 2012		20 – 25, 29 – 30	1 – 19, 26 – 28
October 2012		01 – 31	
November 2012		01 – 30	
December 2012		01 – 31	
January 2013	02 – 31	01	
February 2013	01 – 31		
March 2013	01 – 31		
April 2013	01 – 30		
May 2013	01 – 31		
June 2013	01 – 30		
July 2013	01 – 31		

August - December 2012

Weeks of Restrictions

STAGE 1: 15 weeks, 6 days

STAGE 2: 6 weeks, 1 day

January - July 2013

Weeks of Restrictions

STAGE 1: 0 weeks, 1 day

Hillsborough:

Total use: 1.127 mgd
Avg. Eno use: 1.127 mgd
(when operating: 1.127 mgd)

Total use: 1.127 mgd
Avg. Eno use: 1.127 mgd
(when operating: 1.127 mgd)

Orange-Alamance:

Total use: 0.601 mgd
Avg. Eno use: 0.073 mgd
(when operating: 0.192 mgd)

Total use: 0.592 mgd
Avg. Eno use: 0.156 mgd
(when operating: 0.224 mgd)

Piedmont Minerals:

Total use: 0.0001 mgd
Avg. Eno use: 0.0001 mgd
(when operating: 0.0005 mgd)

Total use: 0.0001 mgd
Avg. Eno use: 0.0001 mgd
(when operating: 0.0006 mgd)

ENO RIVER ANNUAL WATER USERS MEETING

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Status of Water Users:

Hillsborough

- Kenny Keel provided the status of Hillsborough's WFER;
 - First time WFER level has been full for the entire summer;
 - Good for water quantity, but causes work delays.
 - Dredging of Lake Ben Johnson completed;
 - 3,300 cubic yards removed;
 - Made possible in part by \$50,000 in DWR grants;
 - Minor concrete repairs to be completed next.
 - Hillsborough began flushing system to keep lines clean and DBP and sediment low;
 - Estimated to be completed October/November.
 - Constructing 0.500 MGD elevated storage;
 - Estimated to be completed early 2015.
 - Phase 2 of WFER Study beginning now;
 - Phase 2 will add another 10 feet to the depth, which will more than double supply;
 - Expected cost of \$2-3 million to be paid through straight loan
 - Construction anticipated 2015-2016;
 - Completion prior to 2018 permit expiration.
 - Hillsborough water loss reduction;
 - Achieved through sound leak detection with assistance by NCRWA;
 - Removal and replacement of old, substandard galvanized lines.

Orange-Alamance

- Faye Metcalf provided the status of Orange-Alamance;
 - No significant changes in water withdrawals within the last year;
 - Eno River withdrawals approximately 0.200 MGD;
 - Well withdrawals approximately 0.090 MGD;
 - Orange-Alamance water treatment plant now operates five days per week;
 - Orange-Alamance maintains a 20-year purchase water contract with the Town of Haw River;
 - Contract purchase minimum of 0.300 MGD and a maximum of 0.800 MGD;
 - Purchased between 0.350 MGD – 0.400 MGD.
 - Orange-Alamance has two wells located on 119S that have not been used in months;
 - Final approval of a new well;
 - Start date early 2014.
 - Orange-Alamance does not anticipate any major changes in water usage.

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Piedmont Minerals

- There was no representative for Piedmont Minerals present to provide an update.

Eno River State Park

- Dave Cook filled in for Keith Nealson;
 - Hydrilla still a hot issue for the State Park;
 - 3 agency task force to prove its proliferation in Eno River;
 - 2013's high flows flushes out hydrilla;
 - However, only temporary due to established roots/nodes.
- Jimmy Dodson explained hydrilla remediation cannot be accomplished without flushing of the beds to remove hydrilla tubers;
 - Hydrilla easier to manage in a locked water body than in riverine habitat;
 - Study will indicate types of hydrilla present;
 - Introduction of carp versus herbicide usage to be evaluated.

Follow-up Items:

- Robin Jacobs said it was great to have water in the river.
- Buzz Koenig relayed the continuing concerns of the Friends of Lake Orange;
 - Concerned the depth of Lake Orange Reservoir;
 - Water level falls below 2 feet infringes on the recreational rights of the 100+ homeowners which reside adjacent to the Reservoir;
 - Discussed with County Manager the need for the VCUA to be reviewed and possibly updated;
 - Submitted their data to County Commissioners;
 - Encouraged to continue collaboration with Eno Users group.
- Buzz Koenig formally requested the Eno Users group convene a small quorum to consider a voluntary program to better manage the lake levels beyond the current management established by the Voluntary CUA until the completion of West Fork Eno Reservoir Phase 2 when Lake Orange Reservoir could be considered for only emergency use.
 - Friends of Lake Orange, not asking to stop use of Lake Orange Reservoir, just reprioritization of use.
- Kenny Keel agreed to spearhead the effort to assemble a quorum around mid-October/November.
- Linwood Peele notified the group the Neuse-Cape Fear River Basin Model available on DWR server.
- Linwood Peele informed the group recommendations from the Eco-flow study will be released in November.

- Linwood Peele adjourned the meeting.