



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Active and Abandoned Mine Operations

New Hope Crushed Stone

Monthly Update

Solebury Communications Group

October 2017

Tom Wolf, Governor

Patrick McDonnell, Secretary

October 2017 Project Status

STATUS AS OF:	October 31, 2017
PROJECT	New Hope Crushed Stone (NHCS) Quarry Reclamation and Stream Restoration
START DATE	Reclamation: January 29, 2016 Stream Restoration: January 29, 2016
ANTICIPATED COMPLETION DATE	Reclamation: March 2019 Stream Restoration: March 2019
CURRENT STATUS	Quarry Reclamation On Schedule Stream Restoration On Schedule

Key Ongoing Factors

- Provisions of the January 29, 2016, letter from DEP to NHCS continue to be in effect.
 - Reclamation and stream restoration are required to be completed by March 2019.
- Reclamation and stream restoration progress reporting to DEP by the 5th of each month remains.
- Environmental Hearing Board Appeals by NHCS
 - January 29, 2016, DEP letter: Hearing held March 20, 2017. Decision anticipated later this year.
 - The EHB dismissed the NHCS appeal on September 7, 2017
 - August 26, 2016, Compliance Order: Withdrawn on August 15, 2017.
- Commonwealth Court Appeals by NHCS
 - January 29, 2016, DEP letter: EHB September 7, 2017, dismissal appeal filed on September 29, 2017.
- The July 17, 2017, drone survey of the quarry resulted in a reduced reclamation volume being moved. DEP concludes the reclamation progress is on track for completion by March 2019. This is due to:
 - NHCS has demonstrated the ability to move the necessary volumes of reclamation fill in June and July.
 - NHCS has a clear understanding of the performance expectations moving forward.
 - With the completion of the survey and staking of areas with mapping showing reclamation progress and future placement needs, reclamation work moving forward can be done more accurately and efficiently.
 - DEP will require a survey in early 2018 to serve as a benchmark for the March 2019 completion.
- The last NHCS related sinkhole was repaired on April 28, 2017.

October 2017 Highlights

- Settlement Negotiations.
 - Talks between DEP and NHCS have continued.
- No inspections occurred in October.
 - Statutorily required inspection frequency is once per quarter. Future inspections will be done on this basis and increased as needed.
 - Site visits outside the inspection process will be made to the quarry as they have been done in the past. These visits did occur in October.
 - 500,000 GPD maximum pumping continues.
 - The water level is estimated to be -45 MSL (based on November 8 site visit).
 - A blasting complaint was received on September 26 and was investigated in October. A final report is being drafted.
- Reclamation and Stream Restoration Progress
 - October Work Days
 - 6 on reclamation; 17 on stream; 4 lost to inclement weather and conditions.

October 2017 Highlights - Continued

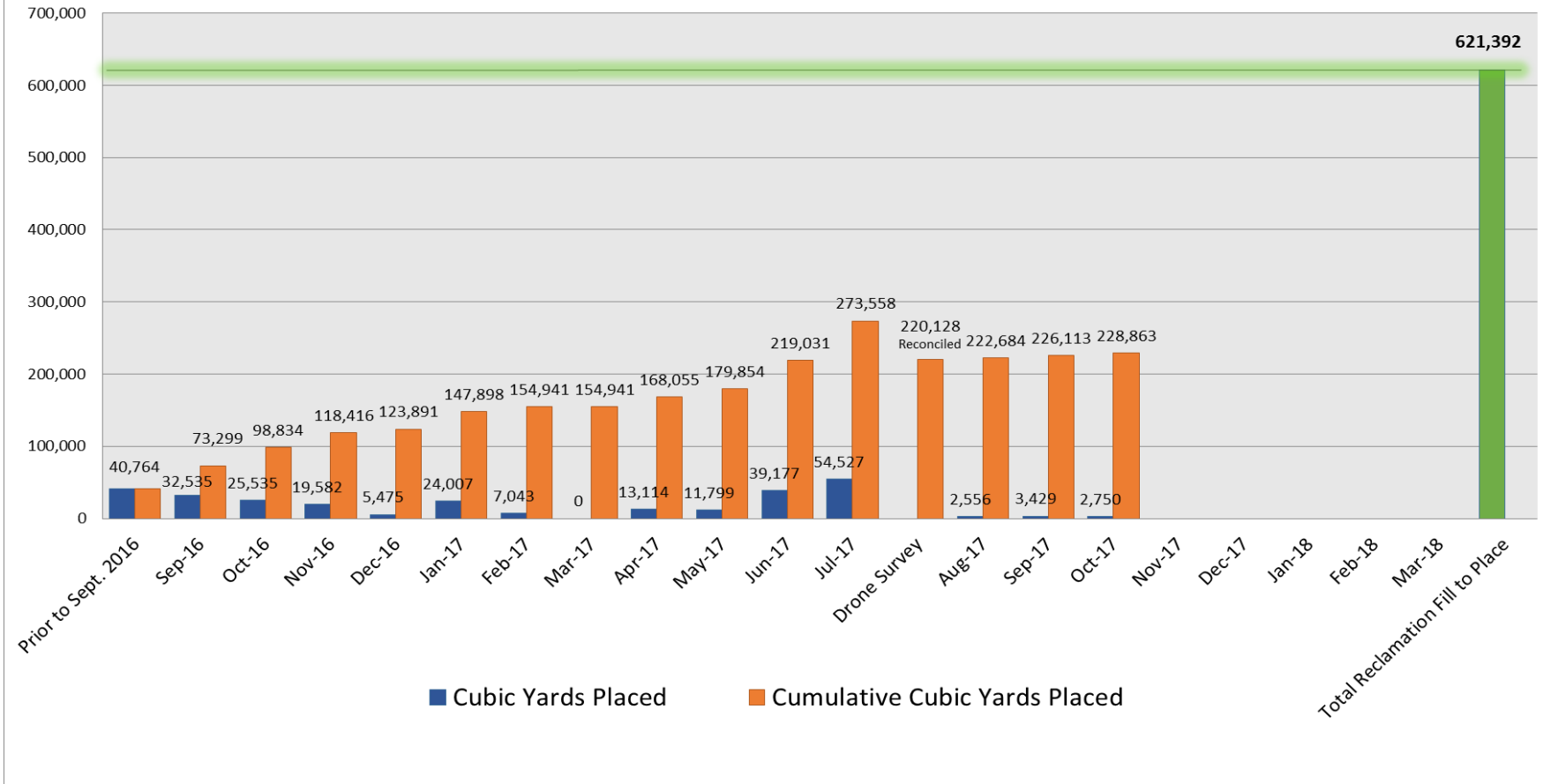
- Reclamation and Stream Restoration Progress - Continued
 - 50 truck trips were made in October with 2,750 cubic yards of overburden trucked; the total to date is 228,863 cubic yards.
 - As of the end of September 36.8% of the total reclamation material has been moved.
 - Truck trip efficiency was fairly consistent; 55 cubic yards per load for October as compared to 56.2 cubic yards per load in September.
 - Reclamation work included removing and relocating the Hazemag foundation and coffin blocks.
 - Stream work was done on 17 days.
 - With DEP concurrence, stream restoration was emphasized starting in August to help insure the stream is stabilized moving forward. This continued to be the case in October.
 - Stream channel work continued and involved removing trees, pick up and assembly of gabion baskets, filling baskets, and moving clay.

Monthly Progress Data

Month	Cubic Yards Placed Overburden	Cubic Yards Placed Overburden, Cumulative	Truck Loads	Reclamation Work Days	Stream Restoration Work Days	Inclement Weather Work Days Lost
Prior to Sept. 2016	40,764	40,764	237			
Sep-16	32,535	73,299	940			
Oct-16	25,535	98,834	531	15.0	6.0	0.0
Nov-16	19,582	118,416	367	5.0	13.0	2.0
Dec-16	5,475	123,891	128	2.5	0.0	15.5
Jan-17	24,007	147,898	588	16.0	0.0	1.0
Feb-17	7,043	154,941	186	8.0	0.0	4.0
Mar-17	0	154,941	0	0.0	0.0	11.0
Apr-17	13,114	168,055	365	13.0	0.0	3.0
May-17	11,799	179,854	301	9.0	1.0	4.0
Jun-17	39,177	219,031	126	0.0	6.0	2.0
Jul-17	54,527	273,558	1,103	9.0	1.0	3.0
Drone Survey Correction		220,128				
Aug-17	2,556	222,684	45	10.5	22.5	4.0
Sep-17	3,429	226,113	61	10.0	14.0	2.0
Oct-17	2,750	228,863	50	6.0	17.0	4.0
Nov-17						
Dec-17						
Jan-18						
Feb-18						
Mar-18						
Total Reclamation Fill to Place	621,392					
Percentage of total placed to date	36.8%					

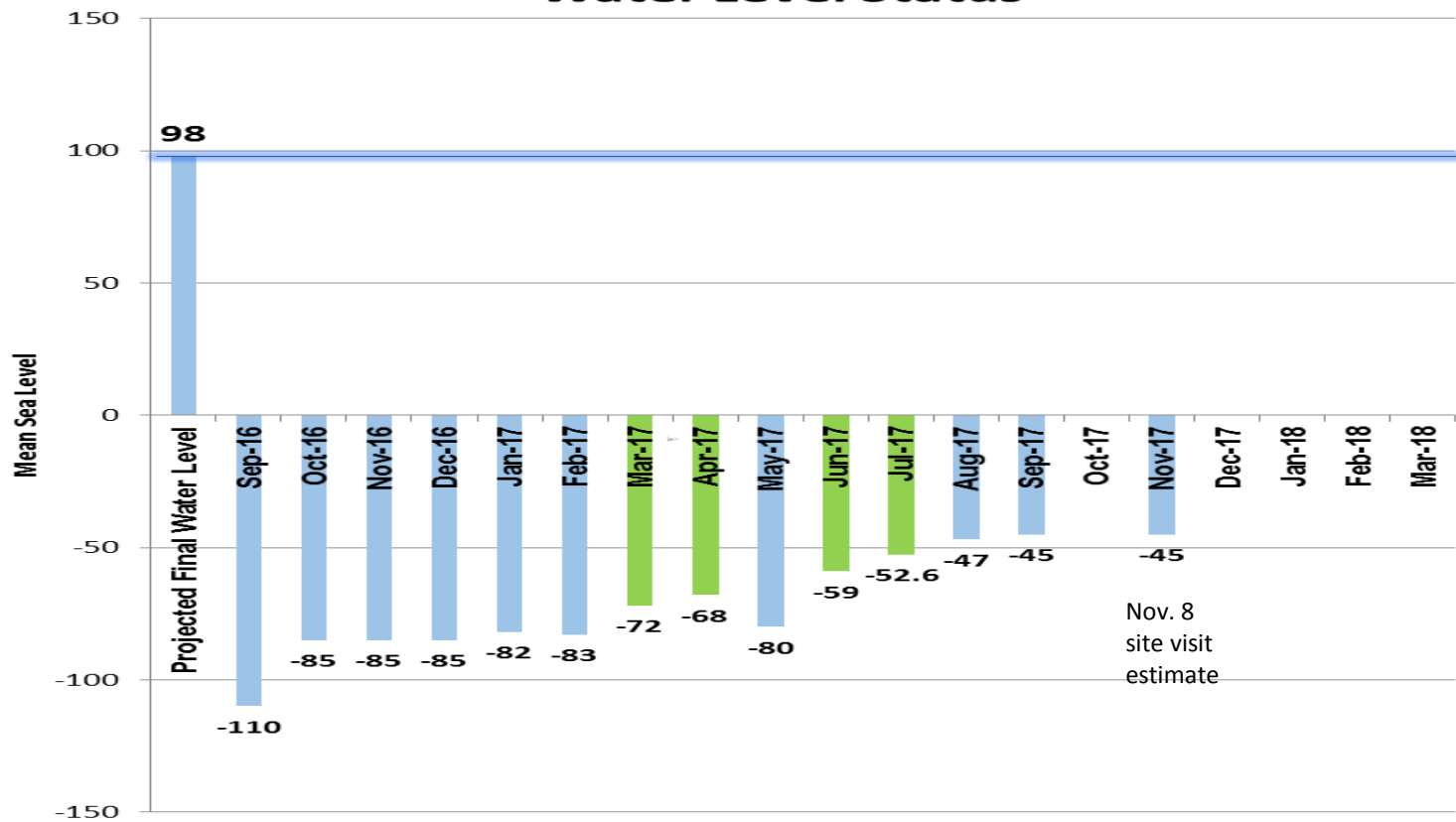
Reclamation Fill Progress

Reclamation Fill Tracking



Water Level Tracking

Water Level Status



Blue bar = Estimated

Green bar = NHCS consultant, EarthRes, PE stamped reports

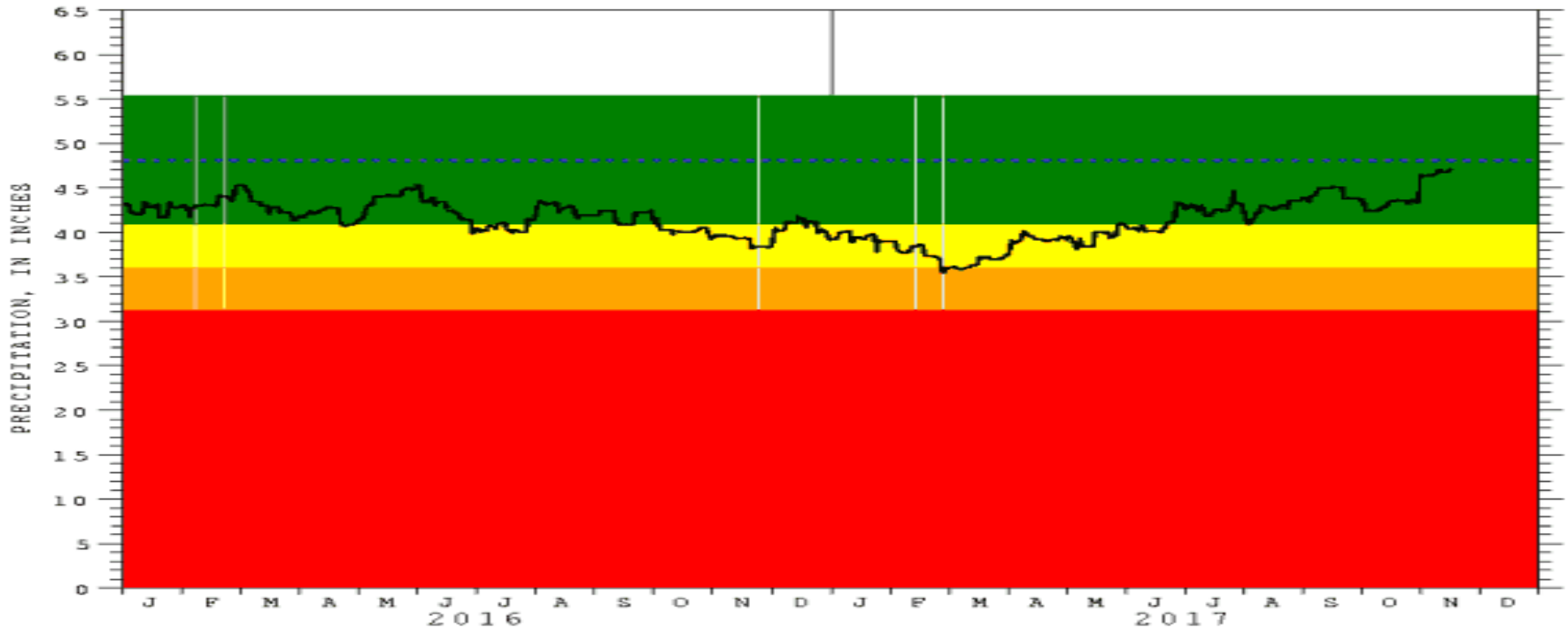
NHCS Monitoring Well Locations



Monitoring well locations are noted by MW1 and MW2 to the right and MW8 at the top center. The fourth in the center is for the plants water use.

Bucks County Precipitation: 2016-2017

BUCKS COUNTY PRECIPITATION
 USGS PLOT OF NATIONAL WEATHER SERVICE DATA
 MOVING 365-DAY TOTAL PRECIPITATION
 DATE OF PLOT=11/14/17



COLORED BANDS REPRESENT DROUGHT INDICATOR CRITERIA USED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR DROUGHT MONITORING

SOLID LINE = CURRENT MOVING 365-DAY TOTAL, IN INCHES
 DASHED LINE = MOVING AVERAGE 365-DAY TOTAL FOR 1981-2010, MARFC 2013

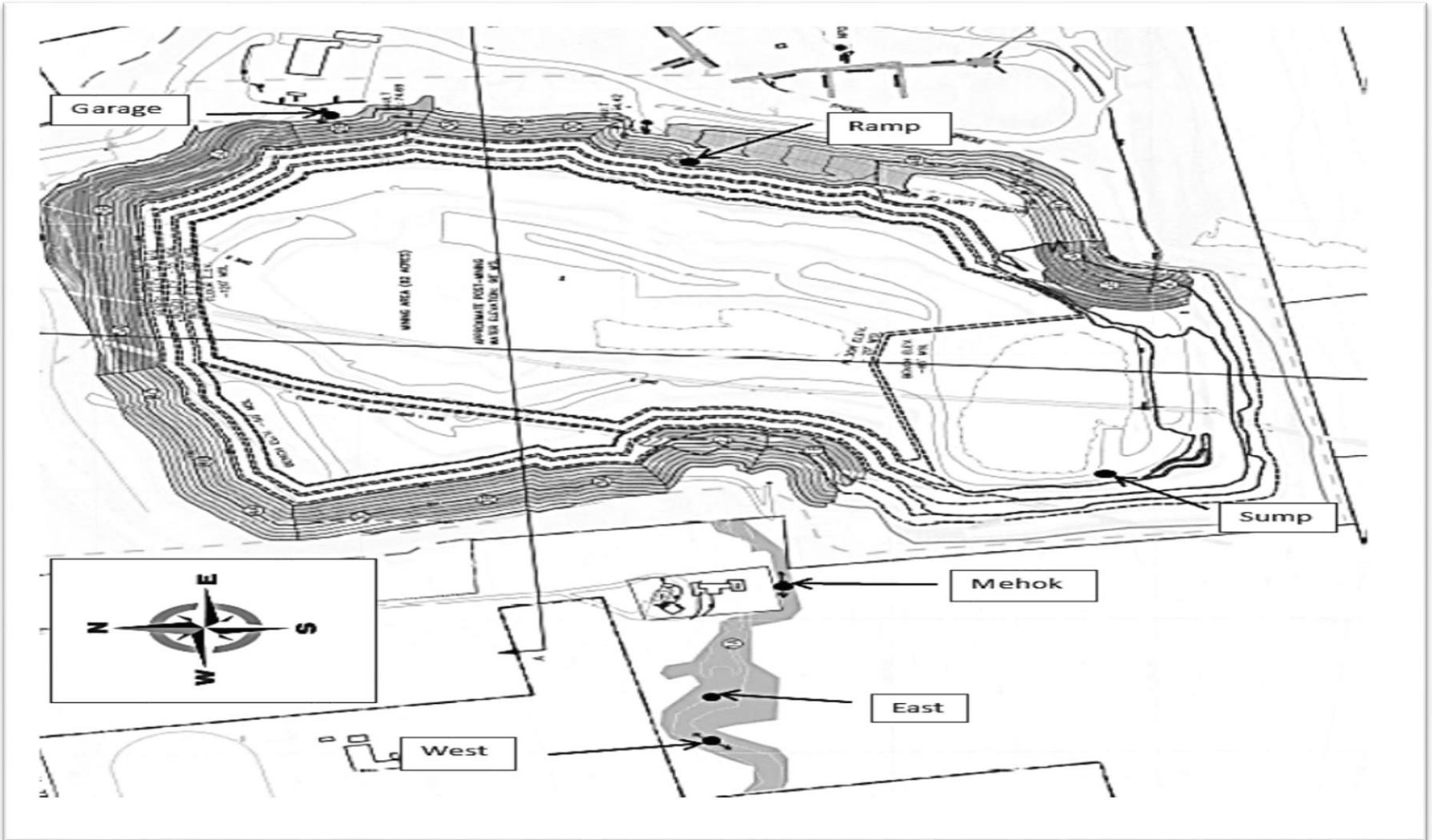
GREEN (TOP) BAND = 15 PERCENT ABOVE TO 15 PERCENT BELOW AVERAGE (NORMAL)
 YELLOW BAND = 15 TO 25 PERCENT BELOW AVERAGE (WATCH)
 ORANGE BAND = 25 TO 35 PERCENT BELOW AVERAGE (WARNING)
 RED (BOTTOM) BAND = GREATER THAN 35 PERCENT BELOW AVERAGE (EMERGENCY)

NHCS Bench Levels

- Bench 2 60' MSL
- Bench 3 10' MSL
- Bench 4 -35 MSL
- Bench 5 -85 MSL
- Bench 6 -120 MSL



Photo Vantage Points



Site Photos



11/8/17

- Inlet work looking east.
- Comparative pictures will resume as inspections are completed.
- Informational pictures taken during site visits will be included to show other aspects of reclamation and stream restoration progress.



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Active and Abandoned Mine Operations

For More Information

Monthly Updates, Inspection Reports,
Communications and more, posted as available.

Please visit: www.dep.pa.gov

Regional Resources > Southeast Region > Community Information

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