



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION



Active and Abandoned Mine Operations

New Hope Crushed Stone

Monthly Update

Solebury Communications Group

August 2017

Tom Wolf, Governor

Patrick McDonnell, Secretary

August 2017 Project Status

STATUS AS OF:	September 7, 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.
- The August 26, 2016, Compliance Order requiring reclamation catchup has been met.
 - 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: Hearing scheduled in Norristown for September 26, 2017.
- The last NHCS related sinkhole was repaired on April 28, 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 to be done in early 2018 to serve as a benchmark moving toward the March 2019 completion requirement.

August 2017 Highlights

- Settlement Negotiations.
 - Talks between DEP and NHCS have continued.
- Inspections occurred on August 1 and 7.
 - Statutorily required inspection frequency is once per quarter.
 - The August 1 inspection was completed in conjunction with the July 10, 2017, and August 26, 2016, compliance orders to note the compliance being met and the lifting of the orders.
 - 500,000 GPD maximum pumping continues. Volumes were as low as 280,000 GPD.
 - Stream work was occurring and reclamation material was pushed over the north wall.
 - The water level is estimated to be -47 MSL.
- Corrective Action Plan (CAP)
 - As of August 1, the conditions of the CAP have been abated and the associated compliance orders have been lifted.
 - As a result of the July 10 Compliance Order, a Civil Penalty of \$14,885 was issued to NHCS on August 29, 2017. As provided for in the Civil Penalty process, NHCS has asked for a meeting with DEP to provide additional information which could impact the penalty amount.

August 2017 Highlights - Continued

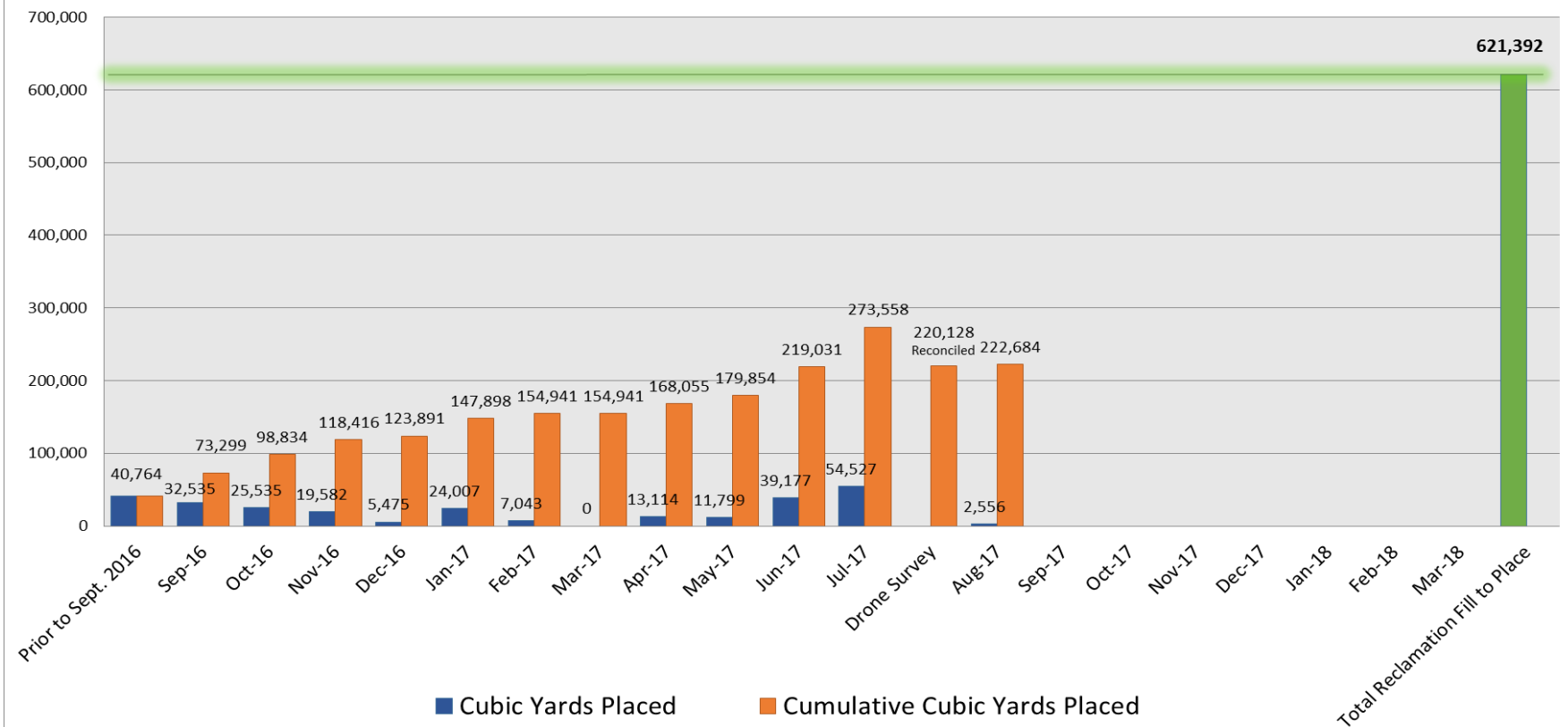
- Reclamation and Stream Restoration Progress
 - August Work Days
 - 10.5 on reclamation; 22.5 on stream; 4 lost to inclement weather and conditions.
 - 45 truck trips were made in August with 2,556 cubic yards of overburden trucked; the total to date is 222,684 cubic yards.
 - As of the end of August 35.8% of the total reclamation material has been moved.
 - Truck trip efficiency increased to 56.8 cubic yards per load from 36.1 cubic yards per load in July.
 - Reclamation work included pushing material over the SE wall. On the north side boulders were removed and the slopes were smoothed. North and West side access was improved for the top wall due to rain events.
 - Stream work was done on 22.5 days.
 - Excavation of the remaining stream channel from the crossing to the quarry and stream grading was completed.
 - The stream is ready for matting which will be a priority for September.
 - Payment in Lieu of Bond
 - On August 29, NHCS made their annual bond payment of \$54,341.
 - This brings the total paid to \$410,541 of total current liability of \$1,144,028.80.

Monthly Progress Data

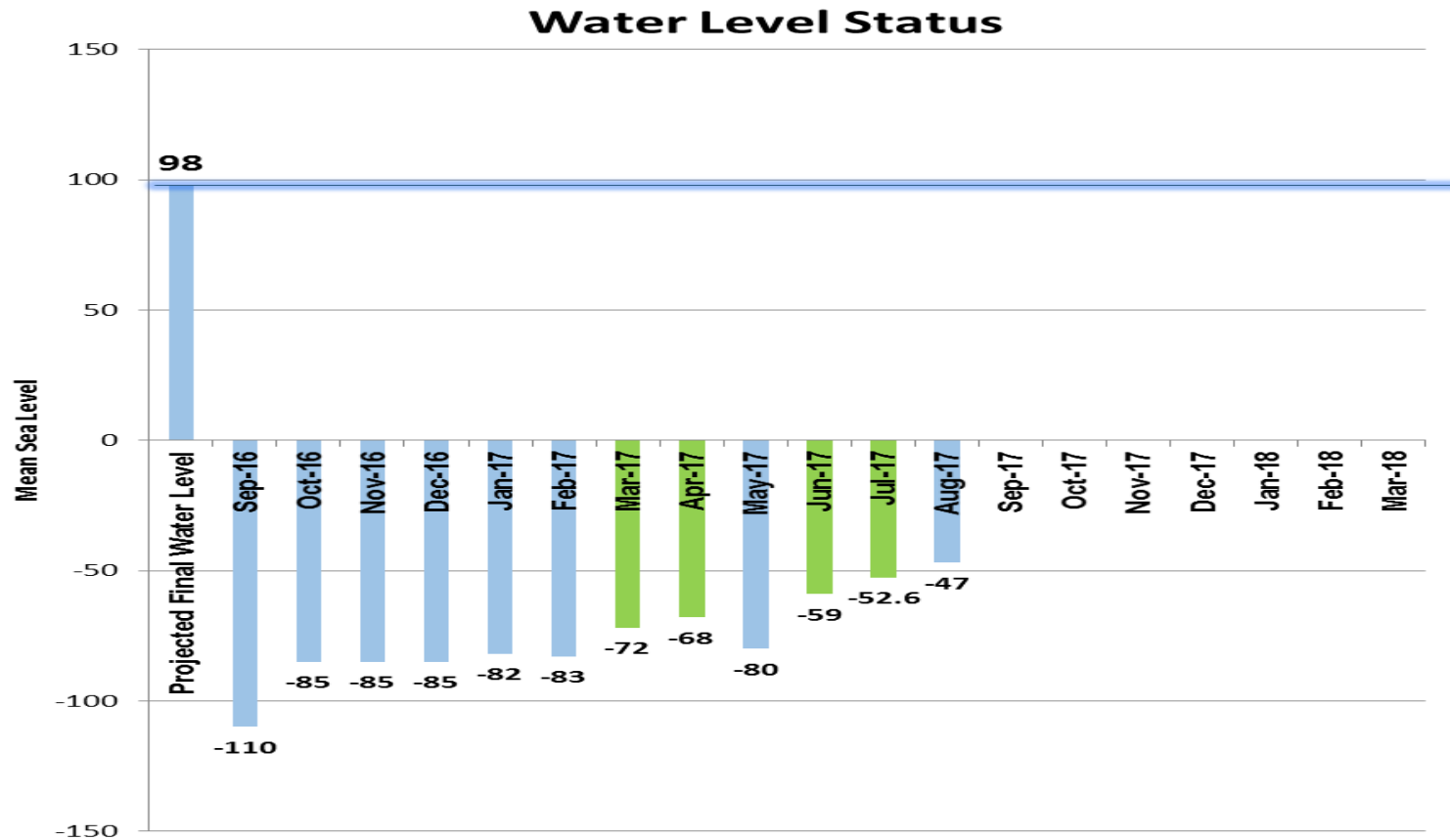
Month	Cubic Yards Placed Overburden	Cubic Yards Placed Overburden, Cumulative	Truck Loads	Reclamation Work Days	Stream Restoration Work Days	Inclement Weather Work Days Lost
Prior to Sept. 2016	40,764	40,764	237			
Sep-16	32,535	73,299	940			
Oct-16	25,535	98,834	531	15.0	6.0	0.0
Nov-16	19,582	118,416	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		220,128				
Aug-17	2,556	222,684	45	10.5	22.5	4.0
Sep-17						
Oct-17						
Nov-17						
Dec-17						
Jan-18						
Feb-18						
Mar-18						
Total Reclamation Fill to Place	621,392					
Percentage of total placed to date	35.8%					

Reclamation Fill Progress

Reclamation Fill Tracking



Water Level Tracking



Blue bar = Estimated

Green bar = NHCS consultant, EarthRes, PE stamped reports

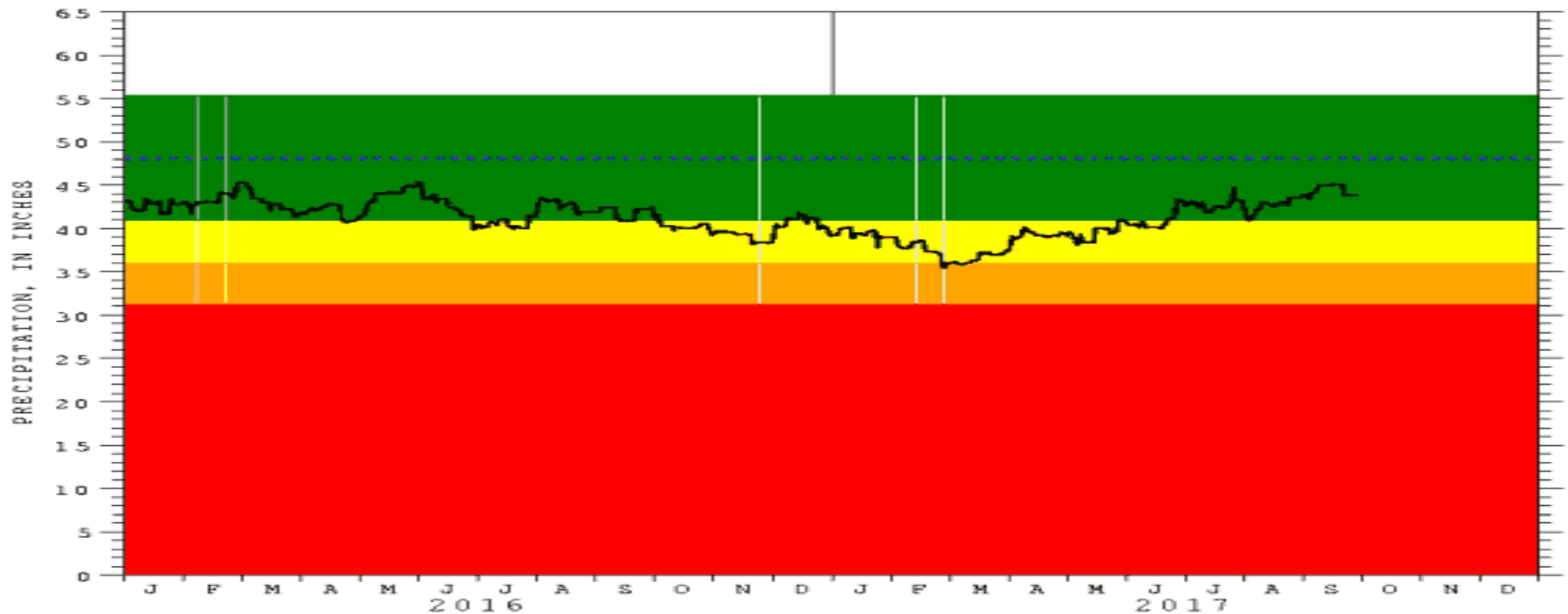
NHCS Monitoring Well Locations



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=09/26/17



COLORLED 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)

The overall status for Bucks County has changed to the normal level (as of June 25, 2017).

NHCS Bench Levels

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



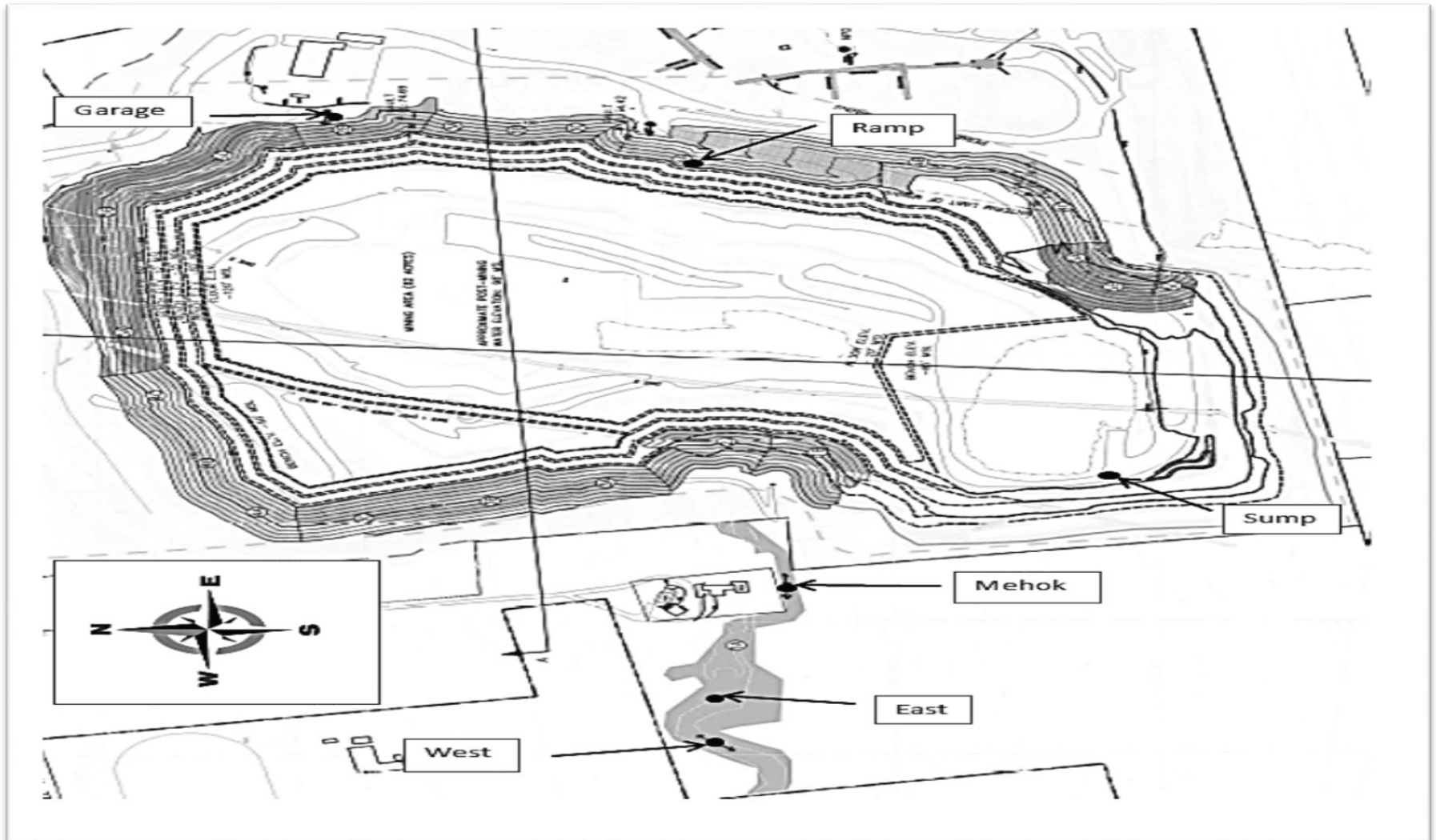
Establishing Photo Vantage Points

To the extent possible with changing conditions at the quarry, photos will be taken from these geographic locations during each inspection.

Please refer to the map on the next slide.

- West looking east, west
- East looking east, west
- Mehok looking east, west
- Sump (Location now underwater)
- Ramp looking south, west
- Garage looking north, south

Photo Vantage Points



Sump Area



Rise in water level.



North and East Wall



9/7/17



8/7/17

North and West



9/7/17

Stream Inlet to Quarry



9/7/17



9/7/17

Stream Towards Quarry



9/7/17

Stream West From Mehok Residence



9/7/17

Stream West



9/7/17



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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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