



# Alto Tunnel Study

## Weekly Progress Report Week Ending March 24, 2017



Report #7

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## 1.0 Project Activities

Project activities for the week of March 24 included drilling and advancing casing in B-3 at the Chapman Site, as well as adjusting the casing and rerunning the video down B-5.

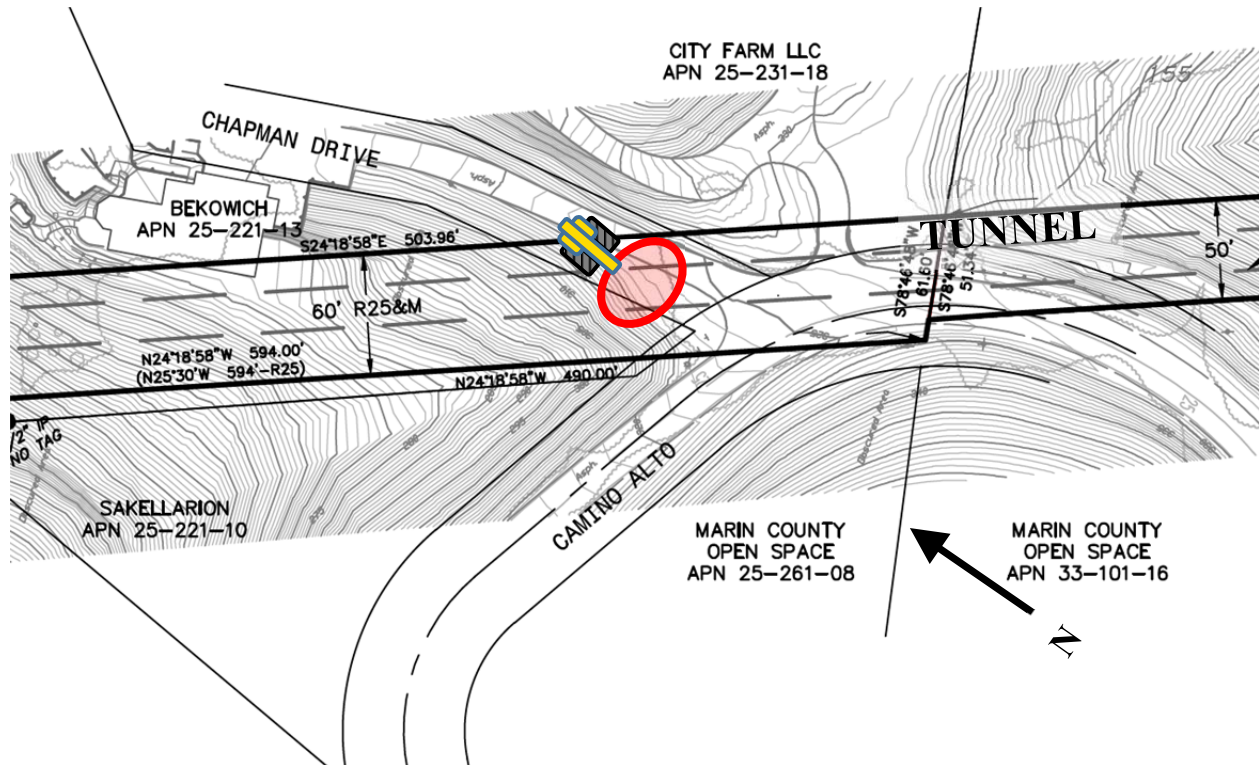


Figure 1. Drill rig and borehole locations above Alto Tunnel at the Chapman Drive project site.

## 1.1 Chapman Site

Drill Tech continued drilling and advancing casing at the Chapman Site this week. Traffic barriers remained in place, and Chapman Rd was closed to through traffic at the intersection of Camino Alto. Casing was advanced to depths of 270 feet in Borehole B-3. Video surveys of B-5 were taken to determine the location of the casing relative to the tunnel.

### 1.1.1 Noise Monitoring

Noise monitoring was performed at four locations around the Chapman site with noise records and locations provided in Figure 3. The average noise decibel is shown from all monitoring locations while the maximum noise recorded was near the drilling equipment at Stations 1 and 3.

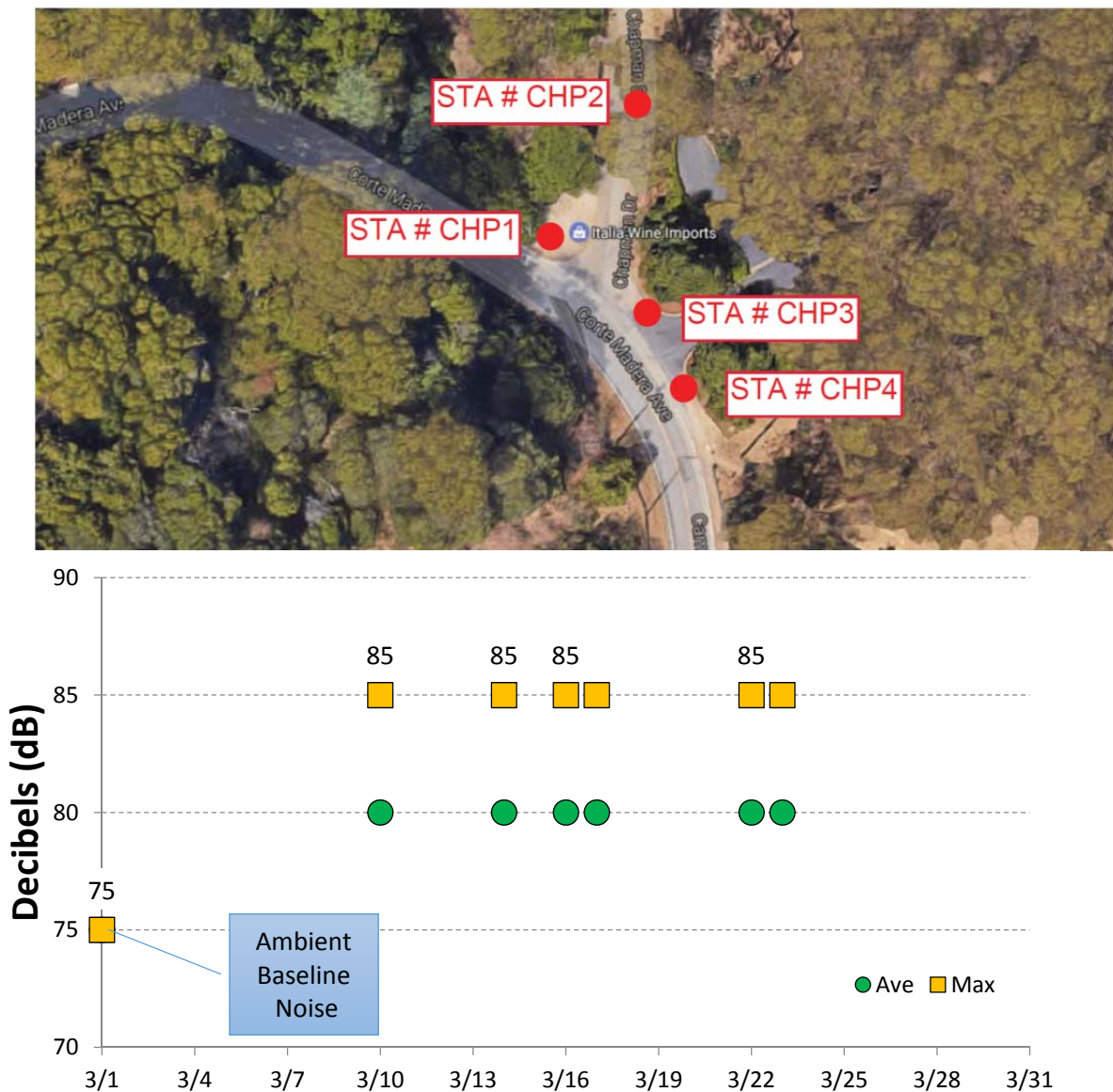


Figure 3. Noise monitoring locations and records at Chapman Dr.

## 2.0 Project Schedule

### 2.1 Project Drilling Progress

The drilling activity at the Underhill site has been completed. Boreholes 4 and 5 have been completed at the Chapman site. See Figure 4 for the project drilling progress.

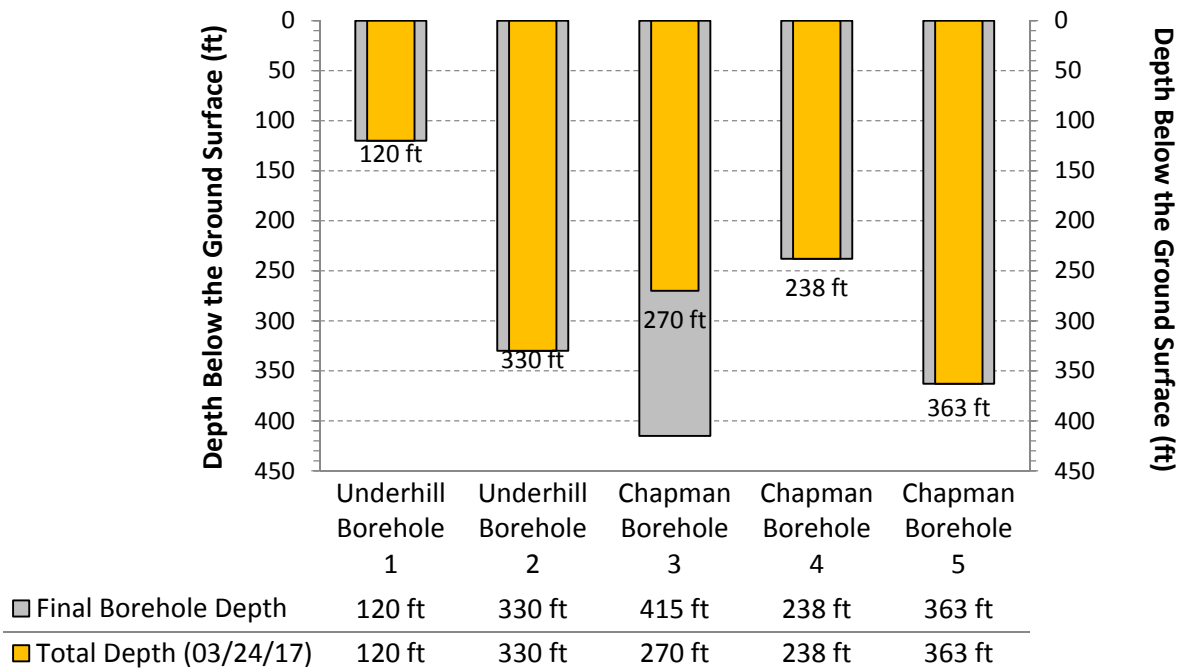


Figure 4. Project drilling progress.

## **2.2 Project Delays and Comments**

There were no weather related project delays this week. Delays are not anticipated to impact the current project budget scope items and have not incurred additional out of scope items. However if modifications to the boreholes or additional boreholes are added, there would be a schedule and budget impact.

## **2.3 Updated Project Schedule**

A complete updated schedule can be found on the Walk-Bike-Marin Projects and Programs website.

[http://www.walkbikemarin.org/projects\\_alto.php](http://www.walkbikemarin.org/projects_alto.php)

### 3.0 Project Items Summary

The items for this project include two boreholes at the Underhill site and three boreholes at the Chapman site. Individual hole depth estimates and percent completed are provided in Table 2. A modification to the drilling angles has reduced the total estimated linear feet of drilling to 1434 feet.

**Table 2. Completed project items Task 3.2.**

Item No.	Description	Unit	Completed Quantity	Total Estimated	Completed
Underhill Site					
1	Borehole 1	LF	120	123	98%
2	Borehole 2	LF	330	360	92%
Chapman Site					
3	Borehole 3	LF	270	415	65%
4	Borehole 4	LF	238	236	101%
5	Borehole 5	LF	363	333	109%
Total		LF	1321	1467	90%