

October 27, 2022  
Job No. 1111-029-22

Mr. Benjamin Wheat  
Roderick Enterprises  
1214 East Vine Street  
Salt Lake City, Utah 84121

Mr. Wheat:

Re: Letter – Addendum  
Response to Review Comments No. 2  
Proposed Catalyst Business Park Buildings 6, 7, 8, and 9  
South of 5750 West and 1500 South  
American Fork, Utah

### **Introduction**

GSH Geotechnical, Inc. (GSH) was requested to provide a second response to the additional review comments from Mr. Alan Taylor, P.E. of Taylor Geotechnical (TG) on behalf of the City of American Fork. GSH completed the original geotechnical study for the above-referenced site dated August 31, 2022<sup>1</sup> and completed a Review Response Addendum Letter dated September 28, 2022<sup>2</sup>. This letter is to address the comments in the third-party geotechnical engineering review document provided by TG dated October 5, 2022<sup>3</sup>. This letter is also intended to serve as an addendum to the referenced geotechnical study.

### **Summary**

GSH was requested to provide a site-specific seismic study for the site. The seismic study is concurrently being completed with this letter and will be transmitted to you upon completion.

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<sup>1</sup> “Report, Geotechnical Study, Proposed Catalyst Business Park Buildings 6, 7, 8, and 9, South of 5750 West and 1500 South, American Fork, Utah.” GSH Geotechnical, Inc., Project No. 1111-029-22.

<sup>2</sup> “Letter - Addendum, Response to Review Comments, Proposed Catalyst Business Park Buildings 6, 7, 8, and 9, South of 5750 West and 1500 South, American Fork, Utah.” GSH Geotechnical, Inc., Project No. 1111-029-22.

<sup>3</sup> “Geotechnical Engineering Review No.2, Roderick Catalyst Business Park-Phase 3, 5750 West 1500 South, American Fork, Utah.” TG Project No. 22087.

GSH understands that at this time the site-specific response analysis is not accepted by American Fork City's Sensitive Land Ordinance as an alternative to referencing a 70-foot boring for determining site class. GSH was requested to provide the recommended Site Class in accordance with the City Sensitive Land Ordinance by including:

- a) The referenced 70-foot boring shown on a site map;*
- b) The log of the 70-foot boring provided for review; and,*
- c) Substantiation of their respective site class recommendation based on a 30-foot boring at the site and a 70-foot boring.*

GSH has reviewed the log of an 85-foot boring completed by RB&G Engineering, Inc. (RB&G) presented in the Sensitive Lands Geologic Hazard Study<sup>4</sup>, located approximately 1,250 feet northwest of the Catalyst Business Park site. The summary of the geotechnical investigation of the referenced boring is included as Attachment 1, RB&G Geotechnical Investigation. The location of the RB&G Boring and the location of the subject site is presented on Figure 1, Vicinity Map.

The log of the 85-foot Boring completed by RB&G is presented on Figure 2, Referenced Boring Log.

The soils encountered in the 85-foot boring primarily consisted of clay. An approximately 3.5-foot silt layer and an approximately 1.5-foot sand layer were encountered at depths of 14.5 feet and 25.0 feet, respectively. The clay soils below 25 feet were occasionally interbedded with sand lenses. The RB&G study determined a low/moderate liquefaction hazard for the soils encountered within the referenced boring. The soils encountered in the referenced boring were similar to the clay soils encountered during the time of the GSH geotechnical study. However, due to GSH encountering potentially liquifiable soils in Borings B-3 and B-4 the site shall be designated as a Site Class F and a site-specific response analysis is required.

### **Closure**

All other recommendations presented in the referenced report shall continue to be followed.

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<sup>4</sup> "Geologic Hazards Study, American Fork Sensitive Lands, American Fork, Utah, December 2006"

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If you have any questions or would like to discuss these items further, please feel free to contact us at (801) 685-9190.

Respectfully submitted,  
**GSH Geotechnical, Inc.**

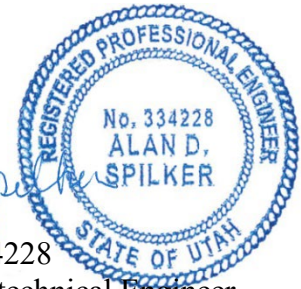
A handwritten signature in blue ink that reads "giavanna Lonardo".

Giavanna Lonardo, E.I.T.  
Staff Engineer

Reviewed by:

A handwritten signature in blue ink that reads "Alan D. Spilker".

Alan D. Spilker, P.E.  
State of Utah No. 334228  
President/Senior Geotechnical Engineer



GAL/ADS:jmt

Encl. Figure 1,	Vicinity Map
Figure 2,	Referenced Boring Log
Attachment 1,	RB&G Geotechnical Investigation



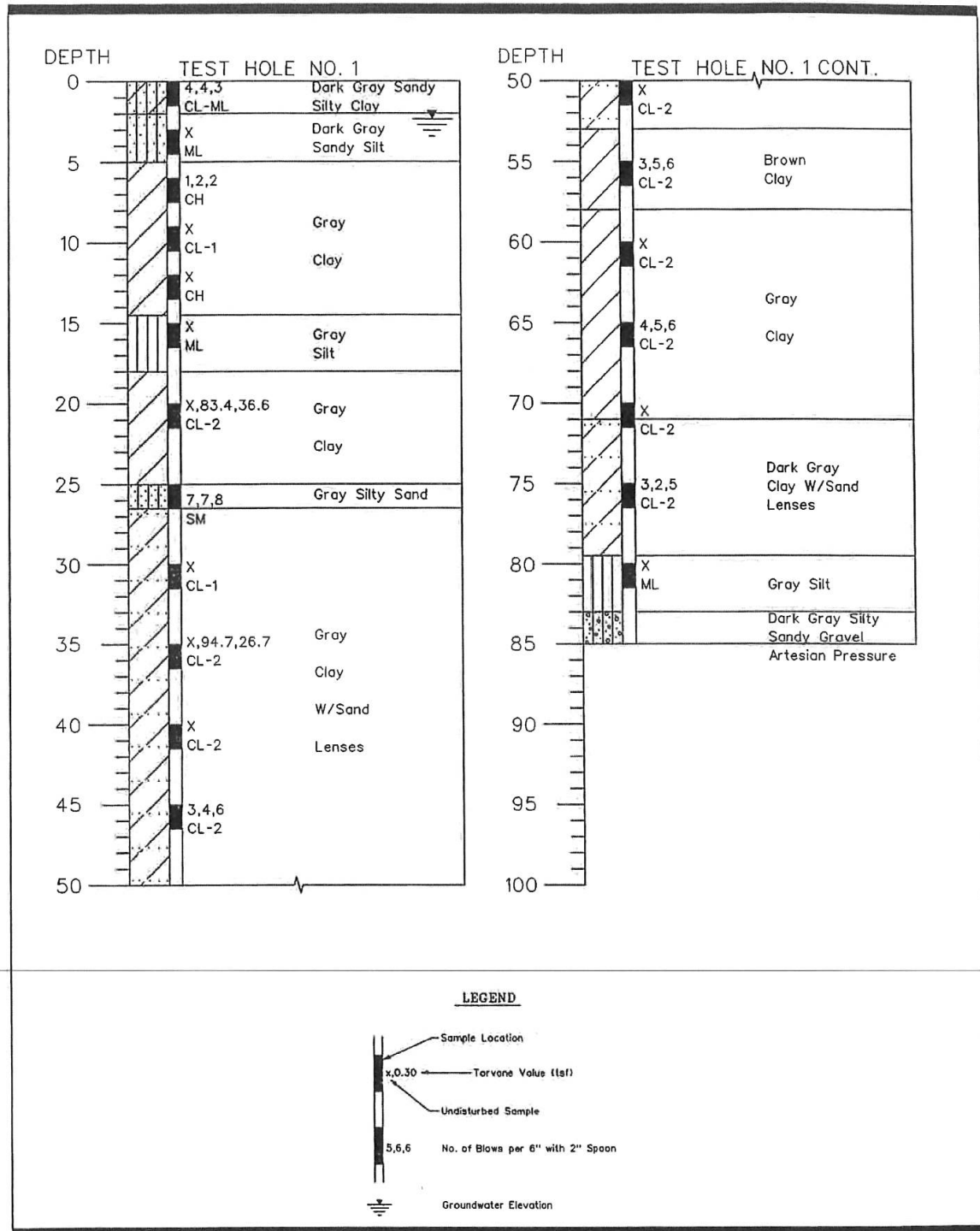


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FIGURE 1  
VICINITY MAP



# REFERENCED BORING LOG



**RB&G  
ENGINEERING  
INC.**  
Provo, Utah

Figure 1 **TEST HOLE LOGS**  
Timpanogos Sewer Lift Station  
American Fork, Utah

## **Attachment 1**

RB&G Geotechnical Investigation



### **Investigation No. RBG-96-2: Timpanogos Lift Station**

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Approximate Location: 6400 N 6000 W (County) – NE corner of intersection

Maximum Exploration Depth: 85 ft

Minimum Depth to Water Table: 2 ft (10 psi artesian flow at 83 ft)

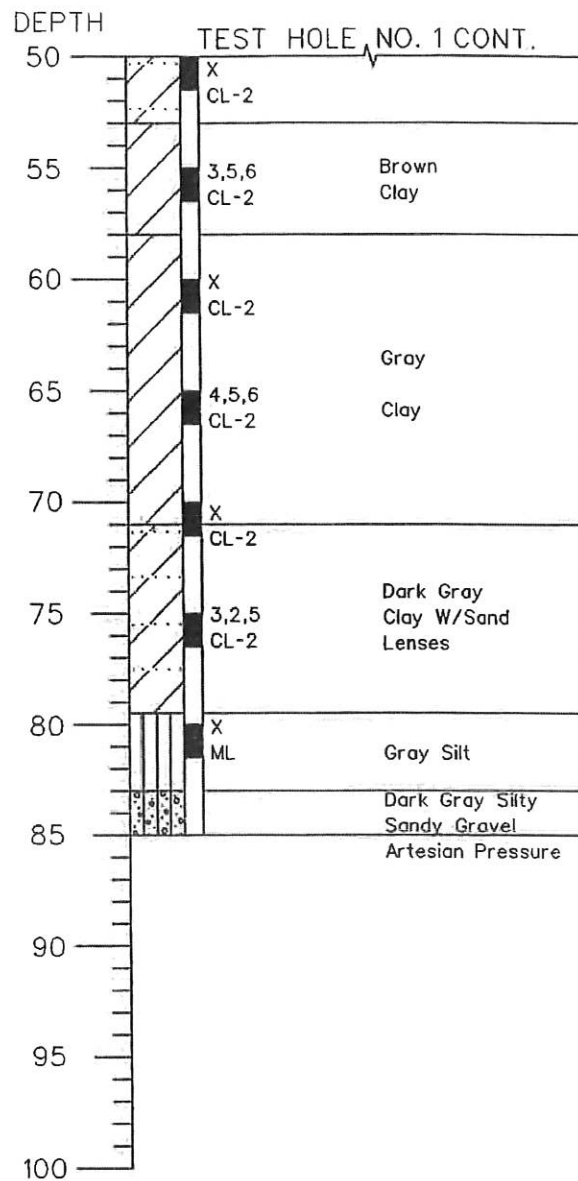
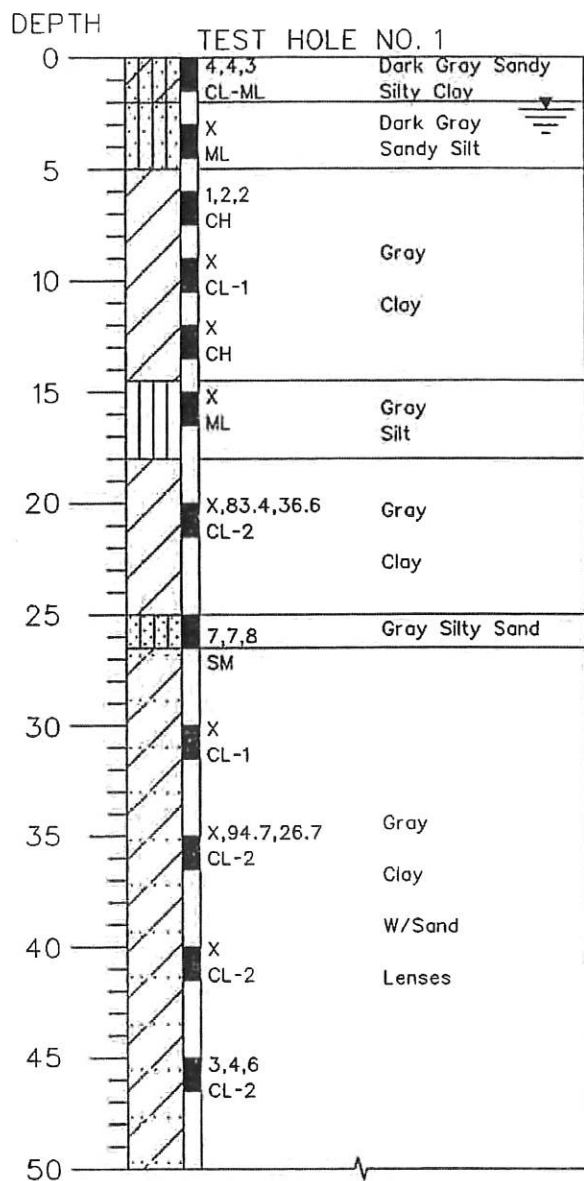
Predominant Soil Type: clay

Other Soil Types: silt, sand, gravel

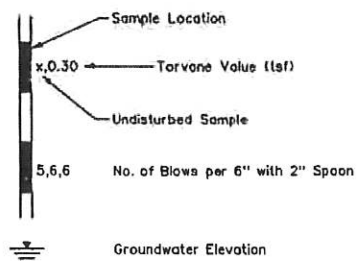
Relative Density of Saturated Non-Plastic Soils: medium-dense

Liquefaction hazard level: low/moderate





**LEGEND**



**RB&G  
ENGINEERING  
INC.**  
Provo, Utah

Figure 1 **TEST HOLE LOGS**  
Timpanogos Sewer Lift Station  
American Fork, Utah



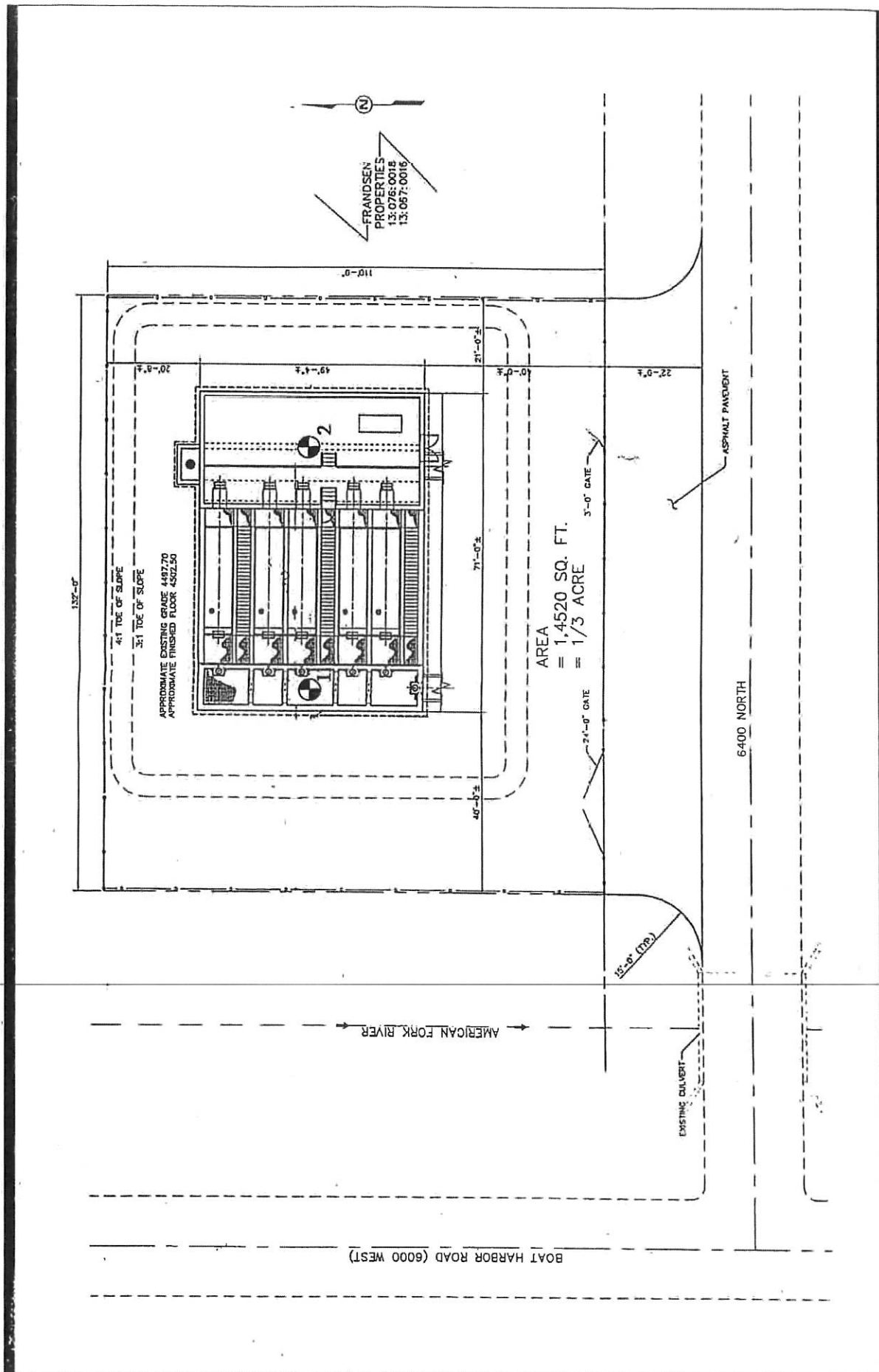
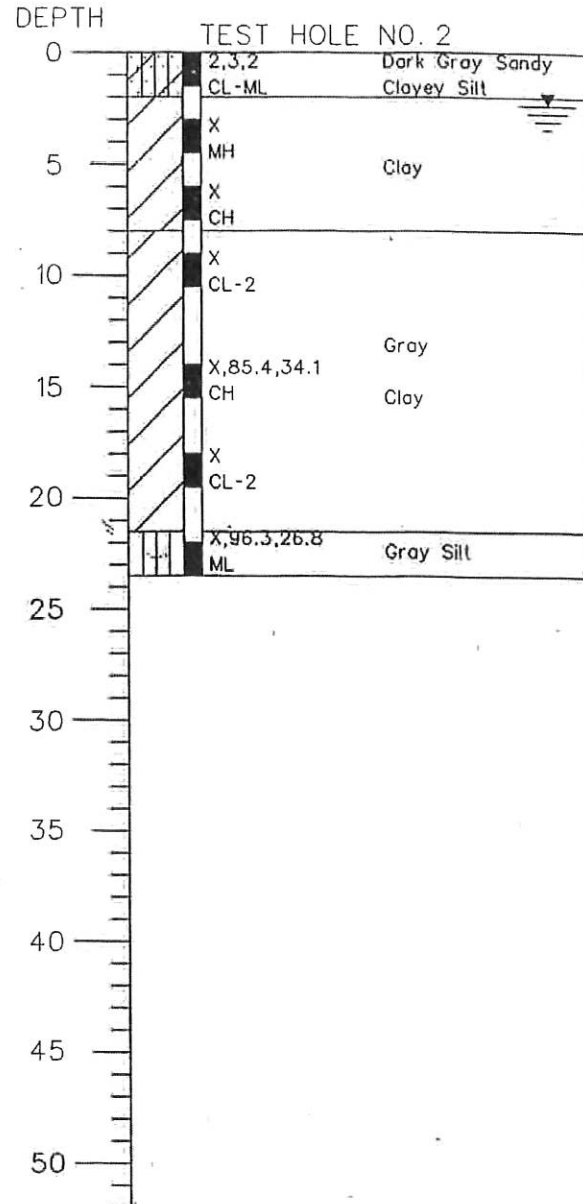
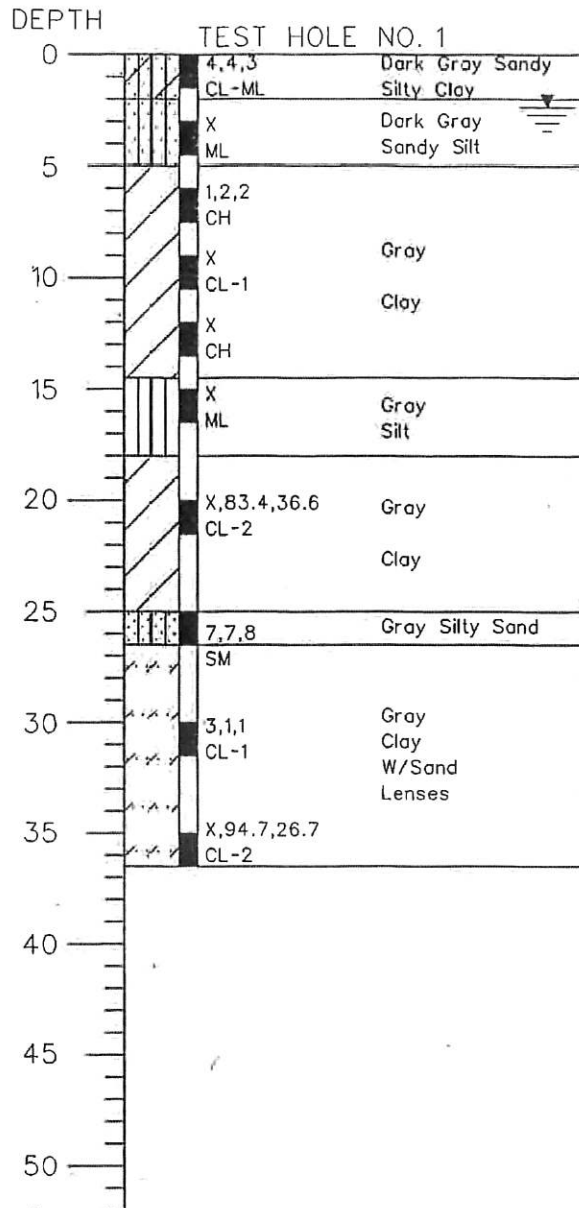
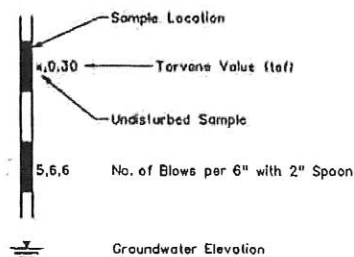


Figure 2 SITE PLAN AND TEST HOLE LOCATIONS  
Timpanogos Wastewater Treatment Plant Lift Station  
American Fork, Utah



**LEGEND**



**RB&G  
ENGINEERING  
INC.**  
Provo, Utah

Figure 3 **TEST HOLE LOGS**  
Timpanogos Wastewater Treatment Plant Lift Station  
American Fork, Utah