
May 23, 2012

Mr. Bryan Chernick
Response Manager
Environmental Quality Management, Inc.
6825 216th Street SW, Suite J
Lynnwood, WA 98036



RE: Geotechnical Consultation
Orofino Baptist Church Drywell
291 118th Street
Orofino, Idaho
ALLWEST Project No. 312-066G

Dear Mr. Chernick,

ALLWEST Testing & Engineering, LLC (ALLWEST) has been requested to provide geotechnical consultation services for the proposed drywell to be constructed at the Orofino Baptist church located on 118th Street in Orofino, Idaho. Our services were performed in general conformance with the scope of services outlined in our proposal dated May 1, 2012.

PROPOSED CONSTRUCTION

We understand a proposed drywell is to be constructed within the landscape area located west of the parking lot at the site. The drywell will be constructed to divert and discharge surface runoff away from the existing precast concrete block, mechanically stabilized earth (MSE) retaining wall along the western edge of the site. We understand the backfill placed behind the wall densified significantly and the upper portion of the wall rotated into the backfill requiring remediation. It is our understanding the drywell will be constructed at the time the MSE wall is repaired.

SUBSURFACE CONDITIONS

ALLWEST conducted a subsurface evaluation at the site on May 4, 2012. One boring was completed to conduct an infiltration test. The boring was drilled using a drill rig equipped with a Tubex drilling system which utilizes driven casing and a percussion hammer to

advance the boring. The cuttings were removed with compressed air and hose and containerized on-site due to the possible presence of asbestos containing materials (ACMs) in the on-site soils. On-site personnel utilized OSHA Level C personal protective equipment during drilling. Drilling equipment was decontaminated on site. The water from decontamination was containerized and left on site.

The subsurface profile observed in the boring generally consisted of fine to medium-grained silty sand with occasional interbedded layers of silt and clay to the maximum depth investigated, approximately 25 feet. Subsurface water was not observed at the time of drilling.

INFILTRATION TEST RESULTS

The infiltration test was conducted by extracting the driven casing to a depth of 20 feet. Two-inch diameter screened, PVC pipe was placed in the 6-inch diameter boring and the boring was sand packed between depths of 20 and 25 feet. Water was placed in the boring and maintained at a depth of approximately 15 feet for approximately one hour prior to recording measurements. The water level drop was measured at 15 minute intervals until two successive measurements indicated a stabilized infiltration rate. The water level was maintained at an approximate depth of 16 feet during measurements. A stabilized infiltration rate of approximately 12 inches per hour (in/hr) was measured.

RECOMMENDATIONS

We recommend an appropriate factor of safety be utilized for the measured infiltration rate for design of the proposed drywell.

LIMITATIONS

This letter has been prepared to assist in design of the proposed drywell at the Orofino Baptist Church located at 291 118th Street in Orofino, Idaho. Our services consist of professional opinions and conclusions made in accordance with generally accepted geotechnical engineering principles and practices. This acknowledgement is in lieu of all warranties either expressed or implied.

REMARKS

We appreciate the opportunity to be of service on this project. We are available to answer questions you may have regarding this report or to provide additional services as needed.

Sincerely,

ALLWEST Testing & Engineering, LLC



Shawn Turpin
Senior Geotechnical Engineer



Colin Meehan, P.E.
Senior Geotechnical Engineer

Attachments:

Vicinity Map
Exploration Location Map
Log of Boring



 **Approximate Site Location**

Vicinity Map

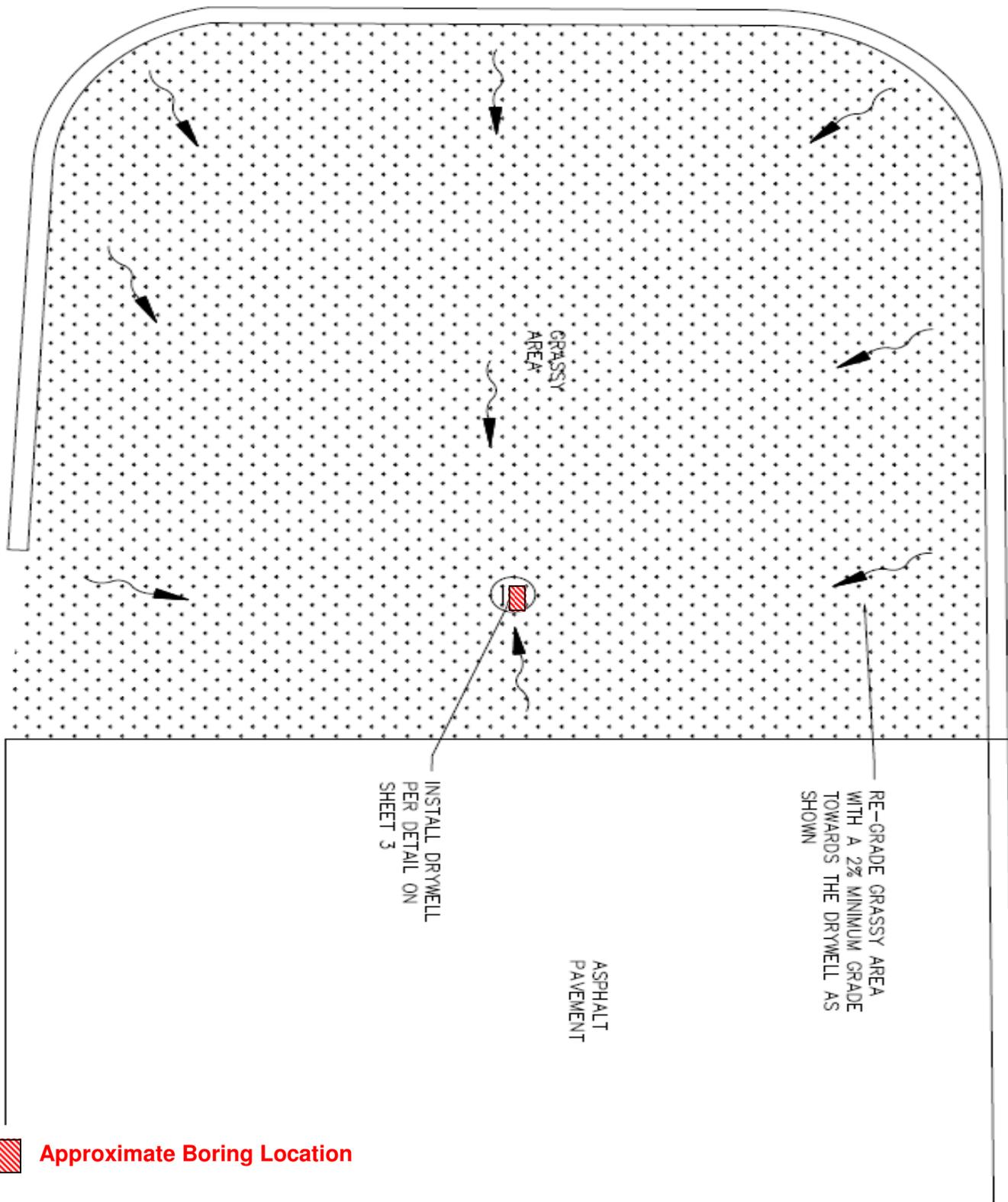


Drawn by:
S. Turpin

Orofino Baptist Church
Orofino, Idaho
Environmental Quality
Management

ALLWEST
Project 312-066G

May 24, 2012



Exploration Location Map



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Orofino, Idaho
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Management

ALLWEST
Project 312-066G

May 24, 2012

LOG OF BORING



PROJECT: 312-066G Orofino Baptist Church Orofino, Idaho Environmental Quality Management, Inc.			BORING: B-1		
			LOCATION: Refer to Exploration Location Map		
			ELEVATION:		
			DATE: 5/4/2012		SCALE: 1" = 4'
Depth 0.0	ASTM D2487 Symbol	Description of Materials	N	WL	Tests or Notes
0	SM	TOPSOIL, silty fine SAND with organics.			
		FILL, fine to medium grained silty SAND, moist and dark brown.			
4					
	SM				
8					
12		FILL, fine clayey SAND and dark brown.			
	SC				
16		FILL, fine silty SAND and moist.			
	SM				
20					
24	SM	Fine to medium grained silty SAND, moist.			
28		Boring terminated at an approximate depth of 25 feet.			

(See Report and Standard Plates for elevation and descriptive terminology.)

Head maintained at a depth of approximately 16 feet during infiltration test.