

## Geotechnical Investigation Review Checklist

## **Scope of Work & Objectives**

Ensuring the investigation's scope aligns with the project's needs and intended use.

Write something		
Summarize the state in the proposal/contr	d objectives of the geotechnical investigation as outling	ed
Write something		
Nas the scope of wo	ork sufficient to address the project's needs?	
Yes		
No		
Unsure		
Estimated design les	ads (e.g., kPa or psf).	

Describe any limitations or assumptions stated in the scope of work.	
Write something	
Which aspects of the project were explicitly covered in the scope?	
Foundation Design	
Slope Stability  Earthwork	
Retaining Walls	
Seismic Design	
Pavement Design	
Site Characterization & Geology  eview of site geology, topography, and existing conditions as documented in the report	t.
eview of site geology, topography, and existing conditions as documented in the report	
eview of site geology, topography, and existing conditions as documented in the report Briefly describe the site's geological setting (e.g., near a fault line, in an area of known landslides).	
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Was a review of historical aerial photographs/satellite imagery performed?  Yes  No Not Applicable
Describe any visible signs of instability (e.g., cracks in the ground, tilted trees, evidence of past erosion).
Write something
Are there any known geological hazards in the vicinity (e.g., active faults, karst topography)?
Yes
☐ Unknown
Describe the soil profile at the ground surface based on visual inspection (e.g., topsoil, sand, clay).
Write something
Borehole/Test Pit Locations & Density ssessment of the adequacy of borehole/test pit locations and the number of explorations erformed.
Number of Boreholes/Test Pits
Enter a number

Justification for Borehole/Test Pit Density
Write something
Borehole/Test Pit Location Accuracy (GPS Coordinates)
Set My Current Location
Were Boreholes/Test Pits located to investigate areas of concern (e.g., fills, slopes)?  Yes No Not Applicable
Description of any deviations from proposed borehole/test pit locations  Write something

Were borehole/test pit locations representative of the site?  Yes  No Uncertain	
Site Plan Showing Borehole/Test Pit Locations       Upload File	
Soil/Rock Properties & Classification  Verification of soil/rock classification, index properties, and strength parameters.	
Soil Classification System Used?  Unified Soil Classification System (USCS)  ASTM Soil Classification  Other (Specify in LONG_TEXT)	
Detailed Description of Soil Types Encountered  Write something	
Dry Density (lbs/ft³)	
Moisture Content (%)	
Enter a number	

Liquid Limit (LL)	
Enter a number	
Plastic Limit (PL)	
Enter a number	
Plasticity Index (PI)	
Enter a number	
Laboratory Tests Performed (Select all that apply)	
Grain Size Analysis	
Atterberg Limits	
Specific Gravity	
Moisture-Density Relationship	
Triaxial Test	
Direct Shear Test	
Other (Specify in LONG_TEXT)	
Notes/Comments regarding Soil/Rock Properties	
Write something	

## **Groundwater Conditions**

Evaluation of groundwater levels, flow patterns, and potential impact on construction.

Highest Recorded Groundwater Level (ft below ground surface)
Enter a number
Lowest Recorded Groundwater Level (ft below ground surface)
Enter a number
Groundwater Flow Direction (based on piezometers/field observations)  North South East West Uphill Downhill Uncertain/Not Determined
Officertain/Not Determined
Groundwater Flow Rate (estimated)  Low  Moderate  High  Not Determined
Description of any observed groundwater quality (e.g., color, odor, presence of contaminants)
Write something

Vas a drawdown test	performed?
」Yes ∃ No	
Not Applicable	
icmic Docial	- Dawassatawa
isiliic Desigi	n Parameters
	assessments and ground motion parameters, if applicable.
riew of seismic hazard	
riew of seismic hazard	assessments and ground motion parameters, if applicable.
Peak Ground Accelera Enter a number	assessments and ground motion parameters, if applicable.  tion (PGA) - Horizontal
riew of seismic hazard	assessments and ground motion parameters, if applicable.  tion (PGA) - Horizontal
eak Ground Accelerate Enter a number	assessments and ground motion parameters, if applicable.  tion (PGA) - Horizontal  tion (PGA) - Vertical

Seismic Design Category (SDC)  A B C C D F
Description of Seismic Hazard Assessment Methodology  Write something
Seismic Hazard Maps or Data  L Upload File
Site Class (per relevant code)  A - Hard Rock B - Medium Rock C - Soft Rock D - Medium Soil E - Soft Soil

## **Recommendations & Design Considerations**

Assessment of geotechnical recommendations and their impact on structural design and construction methods.

Write something	
ssess Slope Stability Re	ecommendations (if applicable)
Write something	
erify Recommended Bea	aring Capacity (psf/kPa)
Enter a number	
Write something	
Recommended Ground Ir	nprovement Techniques (Select all that apply)
Vibro Compaction	
Dynamic Replacement	
Soil Mixing  Stone Columns	
None Required	
I NOUS REGULES	
	egarding settlement predictions

Foundation Type Recommended?
Shallow Foundations
Deep Foundations (Piles/Caissons)
Other - Specify in Long Text
Notes regarding recommendations for Dewatering (if required)
Write something
Reporting & Documentation  Verification of data accuracy, clarity, and completeness of the geotechnical report.
verification of data decardey, clarity, and completeness of the geotechnical report.
Overall Clarity and Readability Assessment
Write something
Report Date Verification
Enter a number
Original Geotechnical Report  L Upload File
Units of Measurement Consistency  Consistent Inconsistent - Requires Review

Write something	
Report Accurac	y - Data Validation
Verified and Acc	urate
Requires Furthe	r Verification
Notes on any m	ssing information or potential errors
Write something	
omplianc	e & Regulations
-	
-	e & Regulations e investigation adheres to relevant codes, standards, and regulatio
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nfirmation that th  Were applicable  Yes	e investigation adheres to relevant codes, standards, and regulatio
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nfirmation that th  Were applicable  Yes	e investigation adheres to relevant codes, standards, and regulatio
nfirmation that th  Were applicable  Yes  No	e investigation adheres to relevant codes, standards, and regulatio
nfirmation that th  Were applicable  Yes  No Not Applicable	e investigation adheres to relevant codes, standards, and regulatio
nfirmation that th  Were applicable  Yes  No Not Applicable	local building codes consulted?
nfirmation that th  Were applicable  Yes  No  Not Applicable	local building codes consulted?

Enter a number	
Describe any doustification.	eviations from standard practices or regulations and
Write something.	
Upload any per	mits or approvals related to the geotechnical investigation.
Upload any per	mits or approvals related to the geotechnical investigation.
♣ Upload File	mits or approvals related to the geotechnical investigation.  gation performed by a licensed geotechnical engineer?
♣ Upload File	