



Log of Test Boring (LOTB) Sheet Checklist

This checklist shall be used by the *checker* in his/her evaluation of a LOTB sheet's conformance with the Caltrans *Soil & Rock Logging, Classification, and Presentation Manual*, and other applicable standards. To facilitate a quality check, the checker shall be provided with the draft final LOTB sheets, pertinent laboratory test results, copies of approved *Request for Exceptions*, and the field logs. This checklist is not comprehensive and does not attempt to account for all logging and presentation standards. As such, the checker must be familiar with the entire manual in order to successfully perform a quality check. **One checklist shall be completed per LOTB plan sheet. One signature sheet may be used for each structure (Bridge No.).**

Project Information

Dist – EA: _____ County: _____ Route: _____ PM: _____

Bridge No.: _____

Sheet Title: _____

Revision Date: _____

Are there approved exceptions to the manual? Yes No (attach, if yes)

General

- | | <u>Yes</u> | <u>No</u> | <u>N/A</u> | |
|-----|--------------------------|--------------------------|--------------------------|---|
| 1.1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the Plan View meet the requirements of Sec 5.2.3.3? |
| 1.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the Border meet the requirements of Sec 5.2.3.1 and Sec 5.2.3.2? |
| 1.3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are the Notes clear and do they meet the requirements of Sec 5.2.2? |
| 1.4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If As-Built LOTB, does it meet the requirements of Sec 5.2.4? |
| 1.5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the soil legend sheet attached and properly labeled? |
| 1.6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If rock is presented, is the rock legend attached and properly labeled? |
| 1.7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If approved "Exception to Policy" form is attached, does the LOTB meet the requirements of the approved exceptions? |

Elevation View

- | | | | |
|-----|--------------------------|--------------------------|---|
| 2.1 | <input type="checkbox"/> | <input type="checkbox"/> | Are the Hole Identifications correct? (Sec 2.3) (Sec. 5.2.3.4) |
| 2.2 | <input type="checkbox"/> | <input type="checkbox"/> | Are the location descriptions correct? |
| 2.3 | <input type="checkbox"/> | <input type="checkbox"/> | Are the holes located properly on the profile? |
| 2.4 | <input type="checkbox"/> | <input type="checkbox"/> | Is the elevation scale correct? (Sec 5.2.3.4) |
| 2.5 | <input type="checkbox"/> | <input type="checkbox"/> | Is the top of hole elevation presented and correct? (Sec 5.2.3.4) |



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Bridge No.: _____ Sheet Title: _____

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	
2.6	<input type="checkbox"/>	<input type="checkbox"/>		Is the correct hole diameter presented in the correct Borehole Symbol? (Sec 5.2.5.6)
2.7	<input type="checkbox"/>	<input type="checkbox"/>		Does the stationing match the profile view?
2.8	<input type="checkbox"/>	<input type="checkbox"/>		Are the Boring Date and Termination Elevation presented at the bottom of each boring log? (Sec 5.2.3.4)
2.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If SPT tests were performed, is the correct hammer efficiency reported at the bottom of each borehole?
2.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are lab tests reported at the correct elevations? (Sec 5.2.5.2)
2.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are SPT blow counts reported at the correct elevations? (Sec 5.2.5.2)
2.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the groundwater presented at the correct elevation? (Sec 5.2.5.2)
2.13	<input type="checkbox"/>	<input type="checkbox"/>		Are the soil/rock layers and graphics presented correctly? (Sec 4, Sec 5.2.5.7)
2.14	<input type="checkbox"/>	<input type="checkbox"/>		Are the required descriptors presented and in the correct order? (Sec 2.4.1, Sec 2.5.1)
2.15	<input type="checkbox"/>	<input type="checkbox"/>		Are the descriptors presented consistent with those allowed in the manual?
2.16	<input type="checkbox"/>	<input type="checkbox"/>		Are the soil identifications consistent with the field observations? (Sec 2)
2.17	<input type="checkbox"/>	<input type="checkbox"/>		Are the soil classifications consistent with reported lab test results? (Sec 3)
2.18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the consistency descriptors consistent with field observations and/or lab test results? (Sec 2.4.3, Sec 3.2.3)
2.19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are the apparent density descriptors consistent with the SPT results and hammer efficiency? (Sec 2.4.4)
2.20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are % recovery (REC) and rock quality designation (RQD) presented at the required elevations?
2.21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is rock strength presented where lab tests are reported? (Sec 3.3.1)
2.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Considering the field observations, are lab test results properly applied to the descriptors within a layer per Sec 4.3?
2.23	<input type="checkbox"/>	<input type="checkbox"/>		Are the presentations consistent with the rules presented in Sec 4?
2.24	<input type="checkbox"/>	<input type="checkbox"/>		Are the presentations consistent with the rules presented in Sec 5?



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List all variances identified during initial review of the LOTB sheet and steps needed to resolve the discrepancy (include item number). Also note any recommendations for revisions to the manual or procedures that might reduce or eliminate similar errors in the future.



Log of Test Boring QC/QA Signature Sheet

Dist – EA: _____

Bridge No.: _____

Sheet Titles:

I, the undersigned on the date following my signature, hereby certify that I have performed a quality check of the referenced LOTB sheets and that the referenced LOTB sheets comply with the Caltrans *Soil and Rock Logging, Classification and Presentation Manual (June 2007)* and related policy and standards.

Checker (Print) _____ Title _____

Checker (Signature) _____ Date _____

I, the undersigned on the date following my signature, hereby certify that the referenced LOTB sheets comply with Geotechnical Service's Quality Control/Quality Assurance procedures, as described in the memorandum, "Quality Control/Quality Assurance Documentation on LOTB Sheets", dated July 1, 2007.

Functional Supervisor (Print) _____ Title _____

Functional Supervisor (Signature) _____ Date _____

(This original checklist and signature sheet shall be placed in the geotechnical project file, and a copy sent to the Geotechnical Services Corporate Unit (Mark Willian))