

- City box number Recent reports
- Title/cover page w/the following info:
- Company (author) name
 - Report Date
 - Project name
 - Company's job number
 - City DCLU project number (7-digit number)
 - City Permit number (6-digit number)
 - Kroll map index number (3-digit number, w/?E,W,N,S)
 - Green label
 - Site address (may be on 1st or 2nd page of text)
- 3400
- Executive Summary and associated figures
 - Table of Contents
 - Project Location Plan/Map or Vicinity Map
 - Site Plans, Boring Location Plans, or Exploration Plans
 - Survey
 - Geologic Maps
 - Cross Sections/Subsurface Profiles
 - Fill or Peat Thickness Maps and Contour Maps
 - Boring Logs
 - Geology Text (if no logs)
 - Soil Classification Key/Boring Log Key
 - Probe Logs
 - Test Pit Logs
 - Monitoring Well Logs
 - Cone Penetrometer Logs
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 - Groundwater Maps
 - GW Elevation Tables/Data
 - Soils Lab Testing (Geotechnical) Summary Tables
 - Grain Size Analyses/Hydrometer Analyses
 - Atterberg Limits
 - Strength tests: Triaxial, Unconfined, Direct Shear
 - Organic Content
 - ¹⁴C or Radiocarbon Testing
 - Other _____
 - Soil Chemical Analytical Testing Summary Tables
 - Water/Groundwater Chemical Analytical Summary Tables
 - Comments _____
- Date Copied _____ By _____

2/9/99

Post Office Box 2385
Kirkland, WA 98083
Telephone (425) 827-1084
Facsimile (425) 828-9443

Trend Development & Construction, Inc.
4711 - 45th Avenue Southwest
Seattle, Washington 98116

Job Number 8022
June 30, 1998

Subject: Geotechnical Engineering Report
Proposed Single-Family Residences
4143 & 4149 23rd Avenue SW
Seattle, Washington

3400

Dear Client:

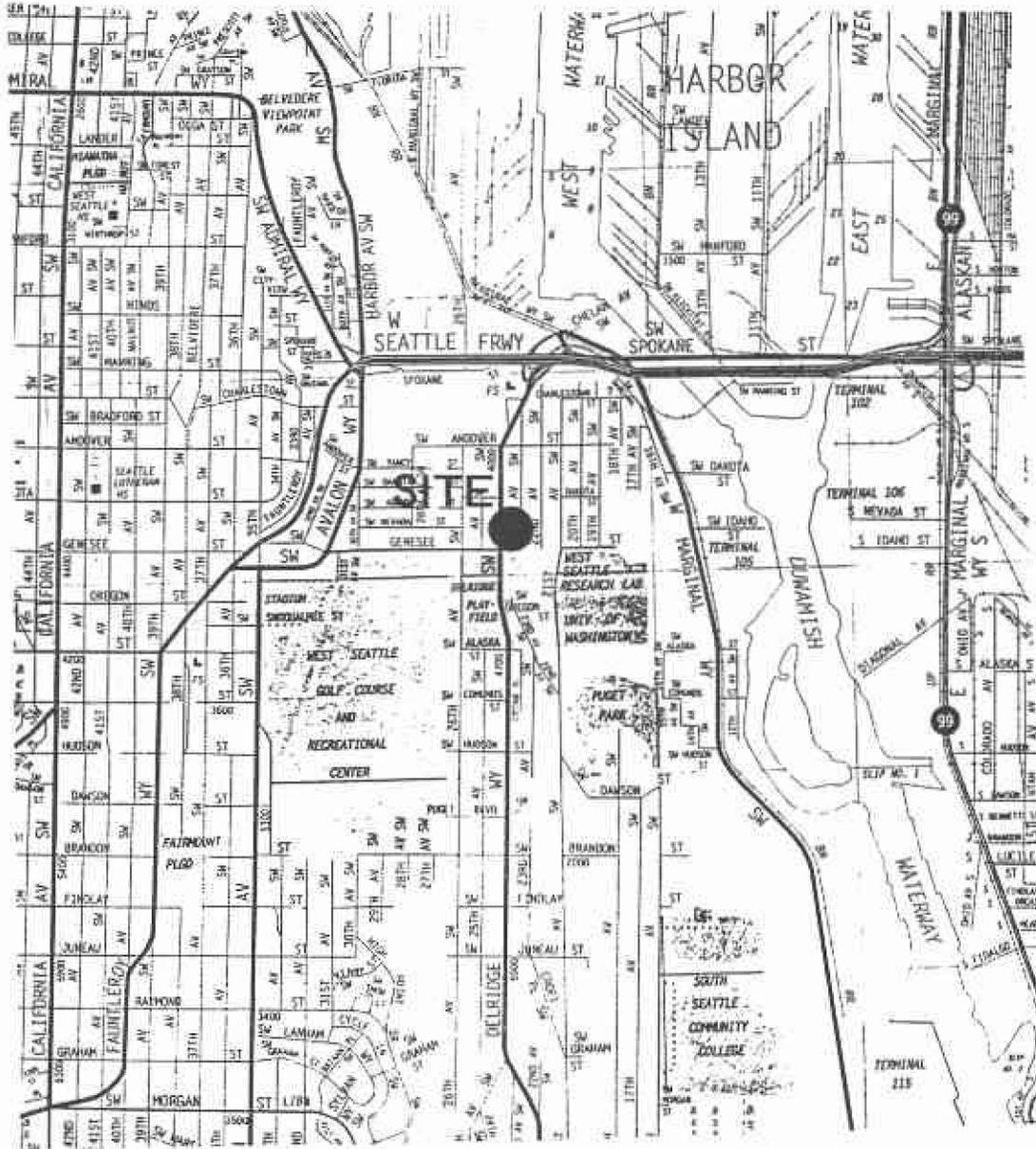
We are pleased to present the Geotechnical Engineering Report for the proposed new residences to be constructed on the vacant parcels at 4143 & 4149 - 23rd Avenue Southwest in Seattle, Washington. (Please note that some of the documents which were provided identify these parcels as 4137 & 4143 23rd Avenue Southwest.) The purposes of our work were to professionally evaluate subsurface soil and groundwater conditions, recommend general procedures for the grading and underslab treatment in the building area, and recommend a suitable foundation system which meets current codes capable of supporting the structures. The scope of our services included:

- 1) Logging and sampling three backhoe test pits excavated to a maximum depth of 14.5 feet below existing grades. The backhoe test pits were excavated with a rubber-tired backhoe. The test pits were logged and sampled by the undersigned professional engineer. Selected samples were taken of subsurface soils.
- 2) Reviewing collected soil samples in our office, and assigning appropriate laboratory tests consisting of moisture contents, sieve gradation and Atterberg Limit tests. At the conclusion of the testing program, laboratory results were analyzed and compared with field notes and logs.
- 3) Preparation of this preliminary summary report in accordance with our understanding of project requirements and generally recognized local geotechnical engineering practices, including the requirements of DCLU 3-93. No warranty is expressed or implied. Plate 1, attached, provides the guidelines in the use of this report.

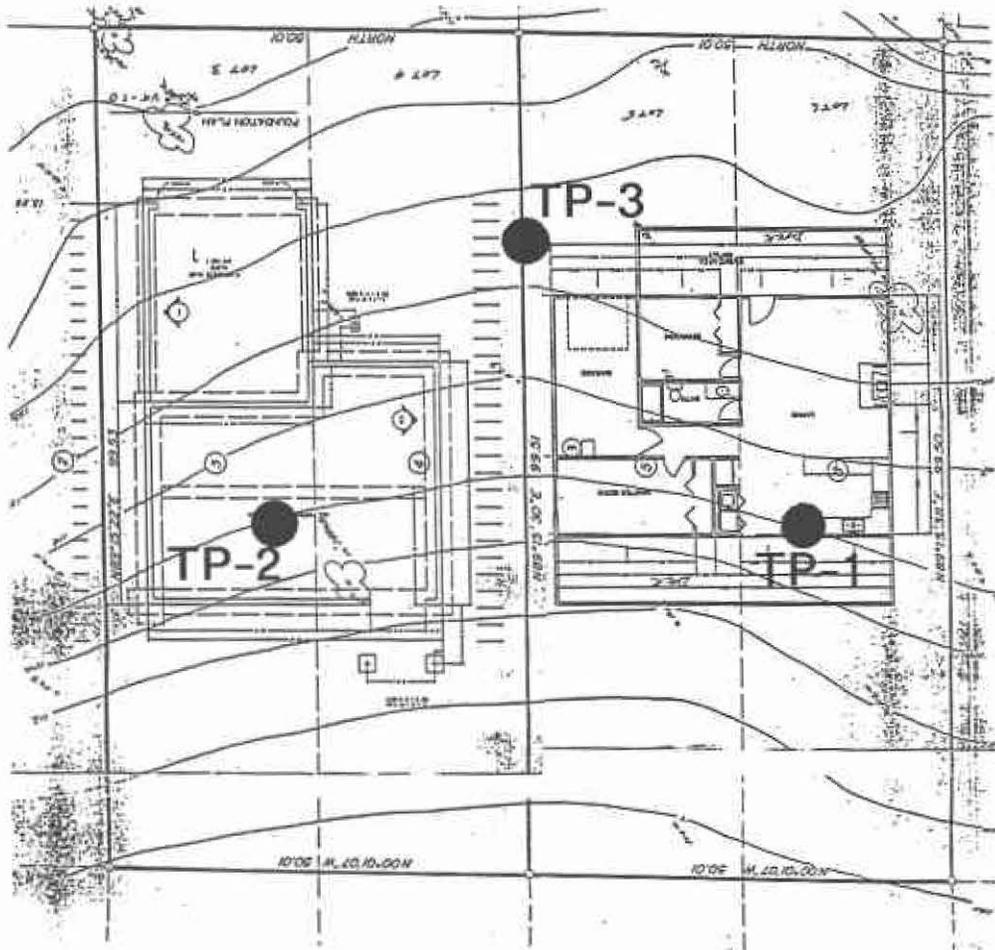
Project Understandings:

This office was provided with a topographic site plan which documented site conditions and the proposed construction. We understand the structures will be multiple-storied daylight-basement structures. There will be around four to more than seven feet of fill placed on the lots between the houses and the street to raise site grades to the roadway.

4137 - 23rd AVENUE SW



Job Number 8022 - Plate 2
Vicinity Map
Proposed Residences
4143 & 4149 23rd SW
Seattle, Washington



Job Number 8022 - Plate 3
Site Plan
Proposed Residences
4143 & 4149 23rd SW
Seattle, Washington

TEST PIT 1

DATE EXCAVATED:
EXCAVATION METHOD: Backhoe
LOGGED BY: Mark K. Dodds, P.E.
SURFACE ELEVATION: ± 118 MSL

SampNo	Depth/ft	Moisture	USCS	SAMPLES GRAPHIC LOG	DESCRIPTION
			Fill	0	Surface is blackberry brush. Brown Gravelly Silty Sandy Fill with wood, very moist to wet, loose.
				2	
				4	
1	6.0' - 7.0'	26.5%	ML	6	Brown Sandy Silt, very moist to wet, firm.
				8	Stopped at 7.0 feet. No groundwater seepage noted during excavation.
				10	
				12	
				14	

TEST PIT 2

DATE EXCAVATED:
EXCAVATION METHOD: Backhoe
LOGGED BY: Mark K. Dodds, P.E.
SURFACE ELEVATION: ± 118 MSL

SampNo	Depth/ft	Moisture	USCS	SAMPLES GRAPHIC LOG	DESCRIPTION
			Fill	0	Surface is blackberry brush. Brown Gravelly Silty Sandy Fill with concrete rubble, old drain pipe pieces, gravel and cobbles, very moist to wet, loose.
				2	
				4	
			OL	6	Dark brown Silty Topsoil, wet, soft.
			ML	8	Brown to gray oxidized Silt and clay, wet, firm, some fracturing.
2	8.0' - 9.0'	28.4%		10	Stopped at 10.0 feet. No groundwater seepage noted during excavation.
				12	
				14	

DODDS Geosciences Inc.
 P.O. Box 6966
 Bellevue, Washington
 Tele: (206) 867-3297

LOG OF TEST PITS 1 AND 2
 4143 23rd Avenue SW
 Seattle, Washington

**TEST PIT
REPORT**

TEST PIT 3

DATE EXCAVATED:
 EXCAVATION METHOD: Backhoe
 LOGGED BY: Mark K. Dodds, P.E.
 SURFACE ELEVATION: ± 122 MSL

Sample No	Depth/ft	Moisture	USCS	SAMPLES GRAPHIC LOG	DESCRIPTION
			FI	0	Surface is blackberry brush. Brown Gravelly Silty Sandy Fill with wood, wet, loose.
				2	
				4	
				6	
			ML	8	Light brown Sandy Silt, very moist to wet, firm. (Colluvium)
3	8.0' - 9.0'	34.6%		8	
4	9.0' - 10'	31.0%	ML	10	Gray Sandy Silt, wet, soft to firm, some fracturing.
				12	Becomes firm to stiff below 11.0 feet. becomes more massive below 12.0 feet.
5	14' - 14.5'	31.8%		14	Stopped at 14.5 feet. No groundwater seepage noted during excavation.

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 Bellevue, Washington
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LOG OF TEST PIT 3
 4149 23rd Avenue SW
 Seattle, Washington

TEST PIT
 REPORT