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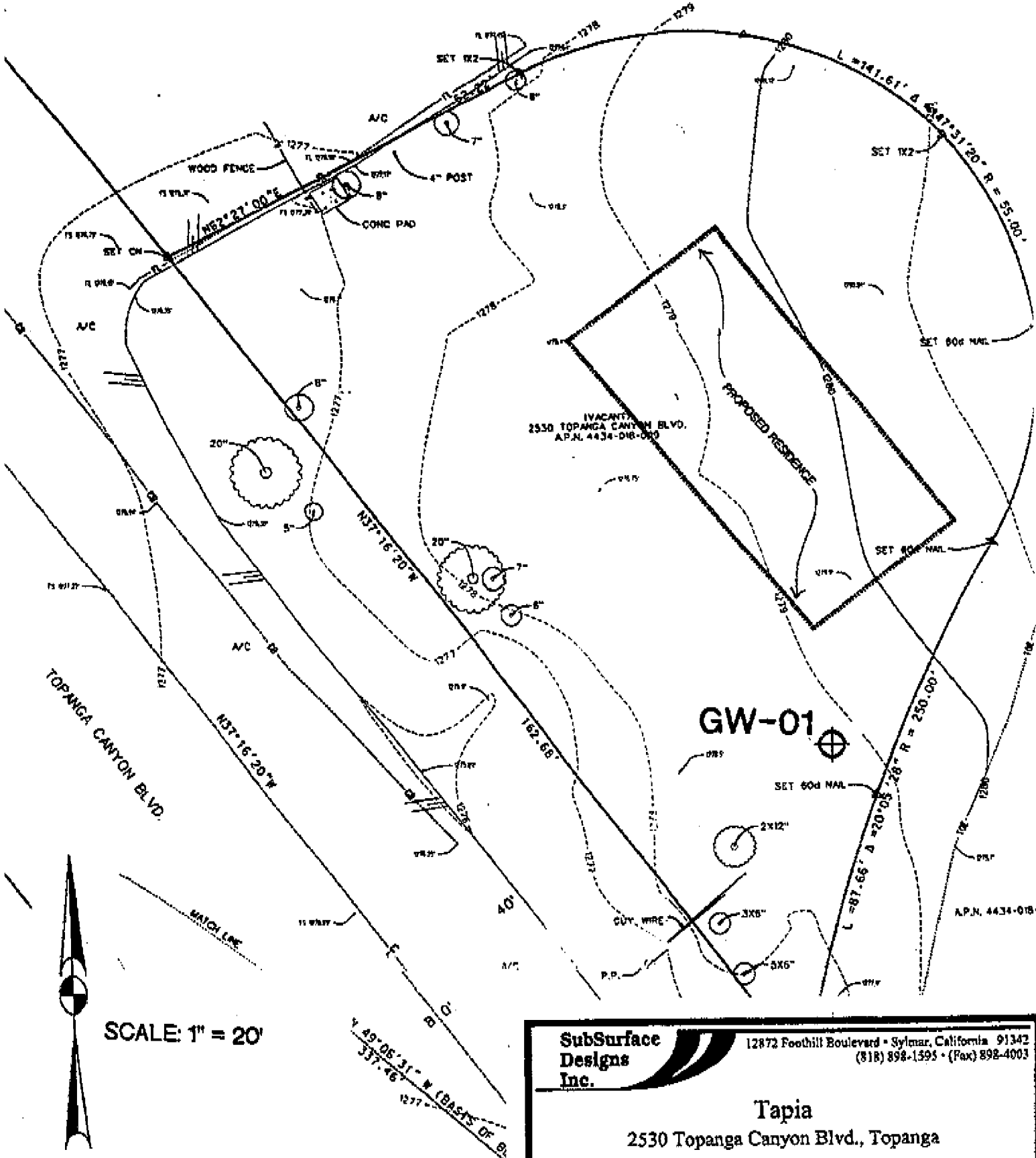
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SCALE: 1" = 20'

SubSurface Designs Inc.
 12872 Foothill Boulevard • Sylmar, California 91342
 (818) 898-1595 • (Fax) 898-4003

Tapia
 2530 Topanga Canyon Blvd., Topanga

Ref # 4476.02P

Plot Plan

June 2004 Plate A

PER

**SubSurface
Designs
Inc.**12872 Foothill Boulevard • Sylmar, California 91342
(818) 898-1595 • (Fax) 898-4003

June 18, 2004

PIN# 4476

Mr. Mike Tapia
2534 Topanga Canyon Blvd.
Topanga, California 90292

Subject: Limited Engineering Geologic Report
Evaluation of a Groundwater Test Hole
2530 Topanga Canyon Blvd.
Topanga, California

Dear Mr. Tapia:

In accordance with your request, this office has performed an inspection of a groundwater test hole (GW-01) excavated on the subject property. The purpose of our inspection was to evaluate observable geologic conditions within the test hole as they relate to future on-site effluent disposal. Evaluation of geologic conditions for future site development and evaluation of site stability are beyond the scope of this report.

The groundwater test hole was excavated with a bucket-auger drill rig to depth of thirty-eight feet (38') on May 14, 2004. A representative from this office logged the open boring at this time. The test boring was reinspected by this office on May 19, 2004. Mr. Larry Young, Environmental Health Specialist, performed percolation testing on nearby test borings. For reference, a geologic log of the test hole has been prepared and is attached to this report. In addition, the location of the boring is shown on the attached Plot Plan.

The proposed area of seepage pit construction is underlain by a thick sequence of earth fill that ranges from ten to twelve feet (10'-12') thick. Underlying the fill is sedimentary bedrock assigned to the Monterey Formation (Tm).

Standing groundwater was observed in GW-01 at a depth of thirty-seven feet (37') on May 19, 2004. There was no evidence of past seasonally high groundwater, such as caliche deposition, iron staining or mineral alteration observed along the sidewalls of GW-01 that would suggest seasonally high groundwater conditions. In addition, phreatophytes, puddles or desiccated soil conditions were not observed on the ground surface.

The future seepage pit(s) shall be constructed in a similar location as the test hole. The pit(s) shall not exceed a total depth of twenty-seven feet (27'), and shall be capped a minimum of fifteen feet (15') below existing grade.

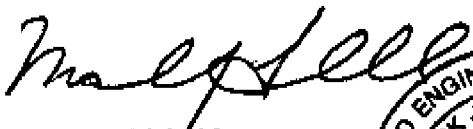
SubSurface Designs, Inc.

Pin# 4476

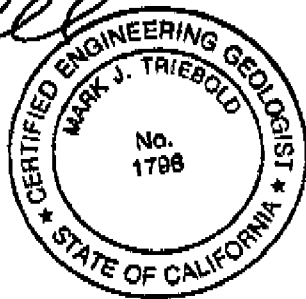
The on-site effluent disposal system will not adversely affect the stability of the site, or off-site properties, providing requirements set forth by the County of Los Angeles Health Department are followed during design and construction. All future excavations for the percolation of effluent shall be evaluated and approved by this office.

This report relates only to the minimum requirements of the Uniform Plumbing Code and does not include any evaluation of other potential problems. It is the professional opinion of the undersigned that this report presents the necessary information requested by you. If you have any questions, please do not hesitate to contact this office.

Respectfully submitted,
SUBSURFACE DESIGNS, INC.



Mark J. Triebold
Engineering Geologist
CEG 1796



MJT/vr: 4476.02P

Encl: Groundwater Test Hole Log, GW-01
Plot Plan

Dist: (3) Addressee
(3) Mr. Larry Young
(1) File

EXPLORATION LOG

PROJECT NAME: <i>Tapia / Topanga Canyon Blvd.</i>				EXPLORATION NO: <i>GW 01</i>		PAGE <i>1</i> OF <i>1</i>																																								
PROJECT NUMBER: <i>PIN 4476</i>				EXPLORATION EQUIPMENT: <i>Bucket Drill-Rig</i>																																										
Comments: <i>See attached Site Plan for location.</i>																																														
Sample Graphics	Blow Count (Per Foot)	Moisture Content (%)	Unit Dry Wt. (pcf)	Depth (ft.)	Lithologic Graphics	Logged By: <i>MJT</i>		Total Depth: <i>38.0'</i>																																						
						Date Started: <i>May 14, 2004</i>		Top Elevation (ft.):																																						
						Date Completed: <i>May 19, 2004</i>		Excavation Width: <i>24"</i>																																						
LITHOLOGIC DESCRIPTION																																														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 20px; text-align: center;">4</td> <td style="width: 20px; text-align: center;">6</td> <td style="width: 20px; text-align: center;">8</td> <td style="width: 20px; text-align: center;">10</td> <td style="width: 20px; text-align: center;">12</td> <td style="width: 20px; text-align: center;">14</td> <td style="width: 20px; text-align: center;">16</td> <td style="width: 20px; text-align: center;">18</td> <td style="width: 20px; text-align: center;">20</td> <td style="width: 20px; text-align: center;">22</td> <td style="width: 20px; text-align: center;">24</td> <td style="width: 20px; text-align: center;">26</td> <td style="width: 20px; text-align: center;">28</td> <td style="width: 20px; text-align: center;">30</td> <td style="width: 20px; text-align: center;">32</td> <td style="width: 20px; text-align: center;">34</td> <td style="width: 20px; text-align: center;">36</td> <td style="width: 20px; text-align: center;">38</td> </tr> <tr> <td colspan="20" style="border: none;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 25%; border-right: 1px solid black; padding-right: 5px;"> <p style="font-weight: bold;">Earth Fill (ef)</p> <p>Silty Sand (SM), Clayey Sand (SC) - grayish-brown and yellowish-brown, mottled, moist, medium compact; some debris (asphalt, concrete, brick).</p> </div> <div style="width: 75%; border-left: 1px solid black; padding-left: 5px;"> <p>1/2" gravel</p> <p>Bedrock - Monterey Formation (Tm) Sandstone - light gray and reddish-brown, moderately hard, moderately cemented, fine-grained.</p> <p>17.5' - bedding: N71E, 20NW; 1" thick weathered tuff bed</p> <p>Siliceous Shale - very hard, tightly fractured</p> <p>21.0' - bedding: N75E, 21NW Sandstone - dark reddish-brown and olive-brown, massive, moderately hard, moderately cemented, fine-grained.</p> <p>26.0' - grades to a strong reddish-brown color</p> <p>Interbedded Sandstone and Siltstone - strong brown, hard, medium cemented, fine-grained sandstone and dark grayish-brown, well bedded siltstone; bedding is continuous and well developed.</p> <p>30.0' - bedding: N05W, 29W 32.5' - bedding: N18E, 22NW</p> <p>37.0' - standing groundwater on May 19, 2004 Tuff bed - white, weathered, slightly clayey</p> </div> </div> </td> </tr> </table>								2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	<div style="display: flex; justify-content: space-between;"> <div style="width: 25%; border-right: 1px solid black; padding-right: 5px;"> <p style="font-weight: bold;">Earth Fill (ef)</p> <p>Silty Sand (SM), Clayey Sand (SC) - grayish-brown and yellowish-brown, mottled, moist, medium compact; some debris (asphalt, concrete, brick).</p> </div> <div style="width: 75%; border-left: 1px solid black; padding-left: 5px;"> <p>1/2" gravel</p> <p>Bedrock - Monterey Formation (Tm) Sandstone - light gray and reddish-brown, moderately hard, moderately cemented, fine-grained.</p> <p>17.5' - bedding: N71E, 20NW; 1" thick weathered tuff bed</p> <p>Siliceous Shale - very hard, tightly fractured</p> <p>21.0' - bedding: N75E, 21NW Sandstone - dark reddish-brown and olive-brown, massive, moderately hard, moderately cemented, fine-grained.</p> <p>26.0' - grades to a strong reddish-brown color</p> <p>Interbedded Sandstone and Siltstone - strong brown, hard, medium cemented, fine-grained sandstone and dark grayish-brown, well bedded siltstone; bedding is continuous and well developed.</p> <p>30.0' - bedding: N05W, 29W 32.5' - bedding: N18E, 22NW</p> <p>37.0' - standing groundwater on May 19, 2004 Tuff bed - white, weathered, slightly clayey</p> </div> </div>																			
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SubSurface Designs, Inc.

GEOTECHNICAL ENGINEERS & ENGINEERING GEOLOGISTS

Figure E.1

Lawrence Young

Registered Environmental Health Specialist

P.O. Box 973, Malibu, California 90265

Cal. Reg. #3738

(818) 883-8585

Fax: (818) 598-0875

July 9, 2004

Michael E. Tapia
2534 N. Topanga Canyon Blvd.
Topanga, CA 90290

RE: 2530 N. TOPANGA CANYON BLVD., TOPANGA, CA 90290

Dear Mr. Tapia:

At your request, I conducted a percolation test for a seepage pit type subsurface sewage effluent disposal system on June 3, June 4, and June 5, 2004 in two percolation test holes (TH-1, and TH-2) previously excavated on subject property. The percolation test holes were 2 feet in diameter, and 27 feet deep below grade.

Los Angeles County Department of Health Services percolation test procedures were followed. The percolation test holes were presoaked on June 3, 2004, and refilled for a metered water test on June 4, 2004. A capping depth of 15 feet below grade was maintained in the percolation test holes during the percolation test. Jensen Water Trucks provided water for the percolation testing. A final observation of the percolation test holes was made on June 5, 2004.

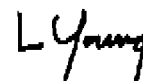
Percolation Rate TH-1: 10,902 gallons/day for a seepage pit 6 feet in diameter, 12 feet deep below the inlet, and capped 15 feet below grade (48.22 gallons/square feet).

Percolation Rate TH-2: 9699 gallons/day for a seepage pit 6 feet in diameter, 12 feet deep below the inlet, and capped 15 feet below grade (42.90 gallons/square feet).

Please note that this report only relates to the minimum requirements of the Los Angeles County Uniform Plumbing Code, and does not include an evaluation of any geological conditions, or other potential problems, which may require an alternative method of wastewater disposal.

Thank you for this opportunity to be of service. If you have any questions, please contact me at your earliest convenience.

Sincerely,



Lawrence Young

cc:file

PERCOLATION TEST DATA

PROJECT: 2530 N. TOPANGA CANYON BLVD., TOPANGA, CA 90290

TEST HOLE NO.: TH-1

TEST HOLE DEMENSIONS: 2' X 27'

CAP DEPTH: 15'

	<u>DATE</u>	<u>TIME</u>	<u>WATER IN TEST HOLE</u>
START PRESOAK:	06-03-04	06:45	DRY
END PRESOAK:	06-04-04	06:30	0.5'
START TEST:	06-04-04	06:45	0.5'
END TEST:	06-05-04	06:30	1'

METERED WATER TEST DATA

TOTAL CUBIC FEET METERED: N/A

TOTAL GALLONS: 3657

WATER REMAINING AFTER TEST: 23

TOTAL GALLONS LOST: 3634

PERCOLATION RATE FOR TEST HOLE **AREA = (pi)dh**

AREA = $3.14(\pi) \times 2'(d) \times 12'(h) = 75.36$ square feet

RATE = $\frac{3634 \text{ gallons}}{75.36 \text{ sq. ft.}} = 48.22$ gallons/square feet

PERCOLATION RATE FOR PROPOSED SEEPAGE PITS

GALLONS/DAY = 3634 X 3.0 = 10,902

PERCOLATION TEST DATA

PROJECT: 2530 N. TOPANGA CANYON BLVD., TOPANGA, CA 90290

TEST HOLE NO.: TH-2

TEST HOLE DEMENSIONS: 2' X 27'

CAP DEPTH: 15'

	<u>DATE</u>	<u>TIME</u>	<u>WATER IN TEST HOLE</u>
START PRESOAK:	06-03-04	07:30	DRY
END PRESOAK:	06-04-04	07:15	1'
START TEST:	06-04-04	07:30	1'
END TEST:	06-05-04	07:15	1.5'

METERED WATER TEST DATA

TOTAL CUBIC FEET METERED:	<u>N/A</u>
TOTAL GALLONS:	<u>3268</u>
WATER REMAINING AFTER TEST:	<u>35</u>
TOTAL GALLONS LOST:	<u>3233</u>

PERCOLATION RATE FOR TEST HOLE AREA = (pi)dh

$$\text{AREA} = 3.14(\text{pi}) \times 2'(\text{d}) \times 12'(\text{h}) = 75.36 \text{ square feet}$$

$$\text{RATE} = \frac{3233 \text{ gallons}}{75.36 \text{ sq. ft.}} = 42.90 \text{ gallons/square feet}$$

PERCOLATION RATE FOR PROPOSED SEEPAGE PITS

$$\text{GALLONS/DAY} = 3233 \times 3.0 = 9699$$

