

September 29, 2006  
File No. 06-5798  
Report No. 11671

San Miguel Ranch, LLC  
P. O. Box 9530  
Rancho Santa Fe, CA 92067

**SUBJECT SITE:** San Miguel Ranch, Allendre Road, San Miguel vicinity of S. L. O. County

**PERCOLATION DATA REPORT**

*Leach Line Method*

In response to your request, we have explored the subsurface soils regarding the suitability for sewage effluent disposal by the leach line method. Between August 15 and August 21, 2006, percolation tests were performed on six (6) parcels across the western portion of the proposed residential development. The testing was conducted in four (4) auger borings ( 8" diameter ) per parcel, extended to depths of 5 to 7 feet. The tests were performed in compliance with the current County of San Luis Obispo requirements for preparing and presaturating the soil in the test holes.

After the soils were saturated as prescribed, the average time for the water level to drop one inch was determined. The test results are summarized on the enclosures of this report. In addition to the percolation test borings, one exploratory boring was excavated at each site to a depth of 15 to 20 feet below the existing surface. The materials encountered in the exploratory borings are described in detail on the enclosed boring log. Attached also is a sketch which shows the locations of the percolation tests and the exploratory borings at each site.

During this investigation no groundwater or evidence of historical high groundwater was encountered in any of the exploratory borings.

## SITE #1

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	5.5'	30 Min / Inch
2	6'	10 Min / Inch
3	6'	5 Min / Inch
4	5'	30 Min / Inch

## SITE #2

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	6.5'	5 Min / Inch
2	5.5'	13 Min / Inch
3	5'	7 Min / Inch
4	5'	10 Min / Inch

## SITE #3

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	5'	30 Min / Inch
2	5'	10 Min / Inch
3	5'	60 Min / Inch
4	5.5'	10 Min / Inch

## SITE #4

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	6'	5 Min / Inch
2	6'	5 Min / Inch
3	5'	10 Min / Inch
4	6'	5 Min / Inch

## SITE #5

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	5.5'	20 Min / Inch
2	5'	30 Min / Inch
3	5'	10 Min / Inch
4	6'	10 Min / Inch

## SITE #6

<i>TEST NO.</i>	<i>DEPTH</i>	<i>PERCOLATION RATE</i>
1	6'	30 Min / Inch
2	6'	24 Min / Inch
3	5.5'	10 Min / Inch
4	5.5'	5 Min / Inch

Based upon current County of San Luis Obispo Standards, the performance test rates are adequate for effluent disposal by the leach line method in the areas tested. Additional information can be found at the San Luis Obispo County Department of Planning and Building or online at [www.sloplanning.org](http://www.sloplanning.org).

If we can be of further assistance to you in this matter, please do not hesitate to call.

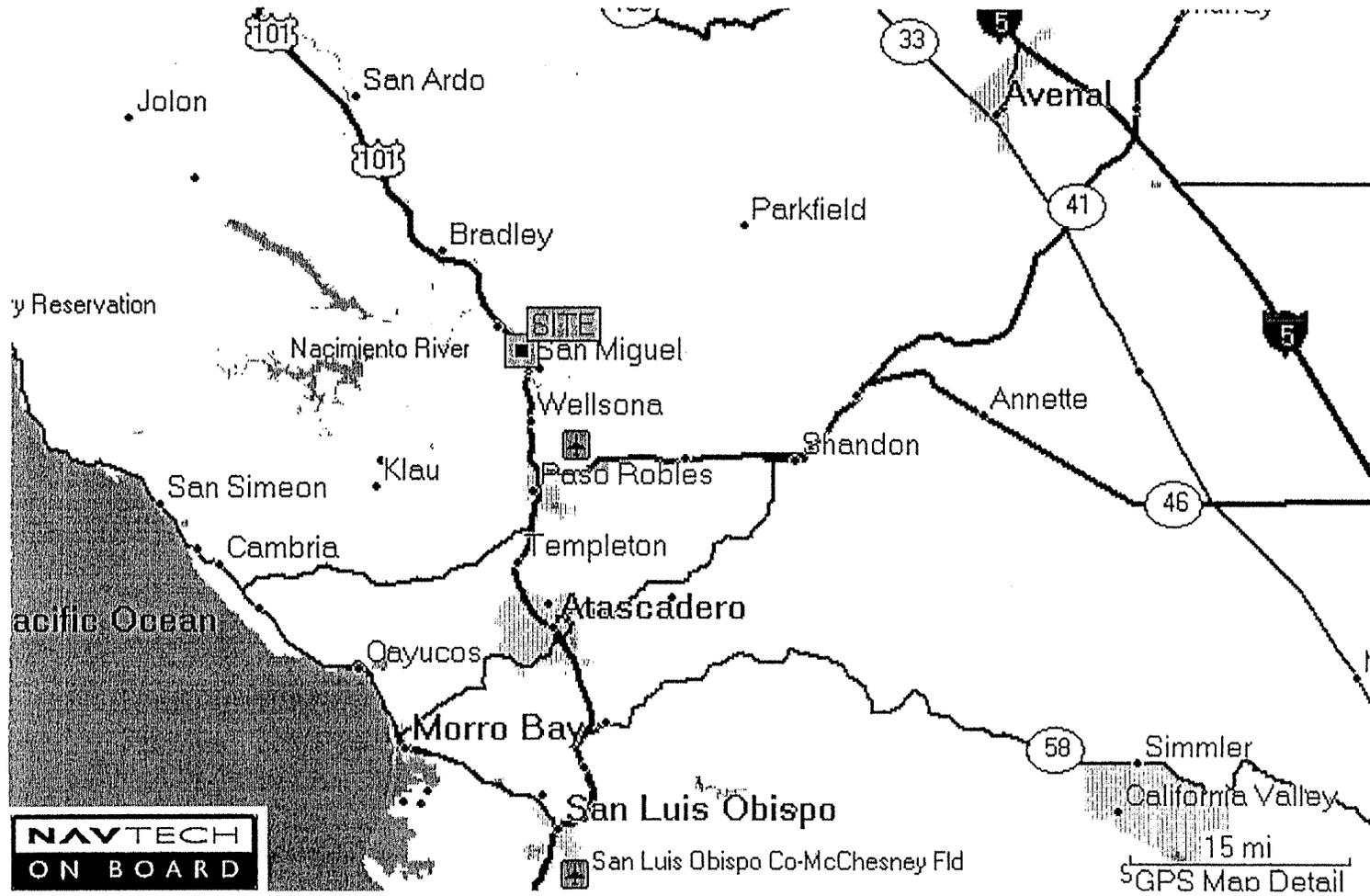


Respectfully submitted,  
MID-COAST Geotechnical, Inc.

A handwritten signature in black ink, appearing to read "Dane C. Jensen".

Dane C. Jensen, RCE C60675  
Expiration Date 12/31/2006

DCJ:elh  
San Miguel Ranch, LLC (2)  
RRM Design Group (5)



Vicinity Map N.T.S.

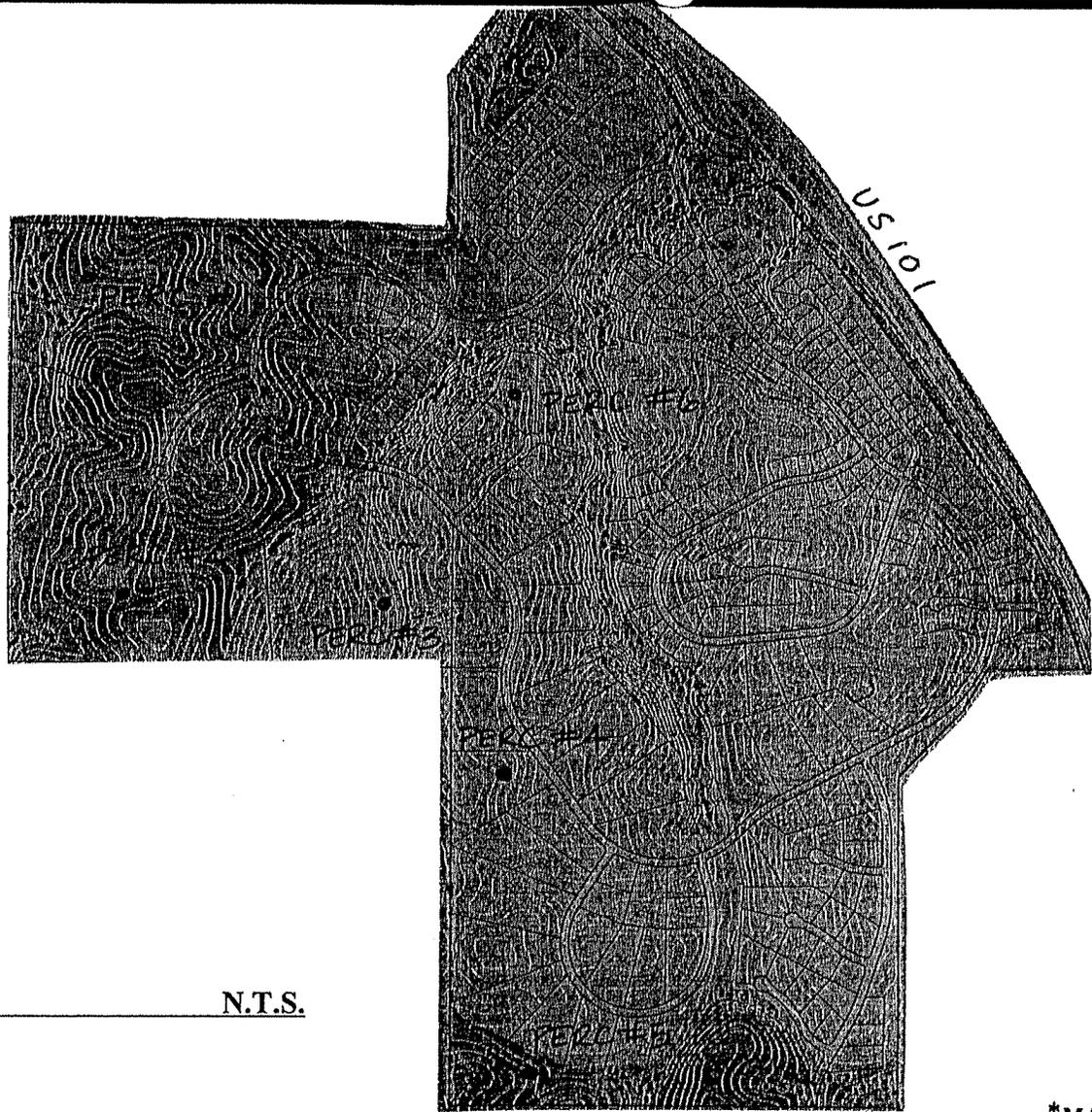
\*MAP PROVIDED BY MAPSOURCE



San Miguel Ranch  
 Allendre Road  
 San Miguel  
 vicinity of San Luis Obispo County  
 California

Date: 09-29-06

Plate 1



Vicinity Map N.T.S.

\*MAP PROVIDED BY OTHERS

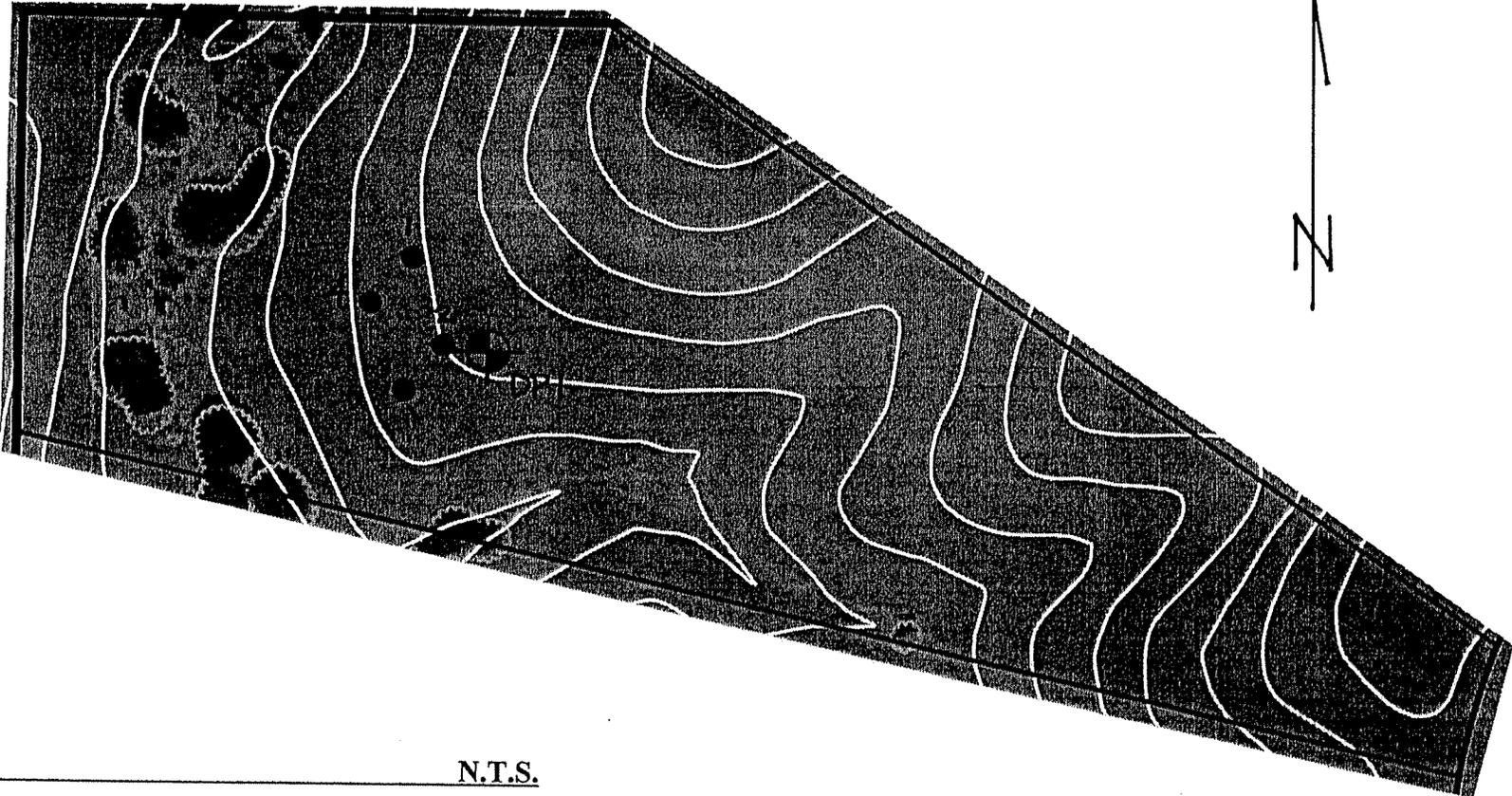
**MCG** MID-COAST  
GEOTECHNICAL, INC.

San Miguel Ranch  
Allendre Road  
San Miguel  
vicinity of San Luis Obispo County  
California

Date: 09-29-06

Plate 2

SITE #1



Legend

N.T.S.



Exploratory Soils Boring

Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

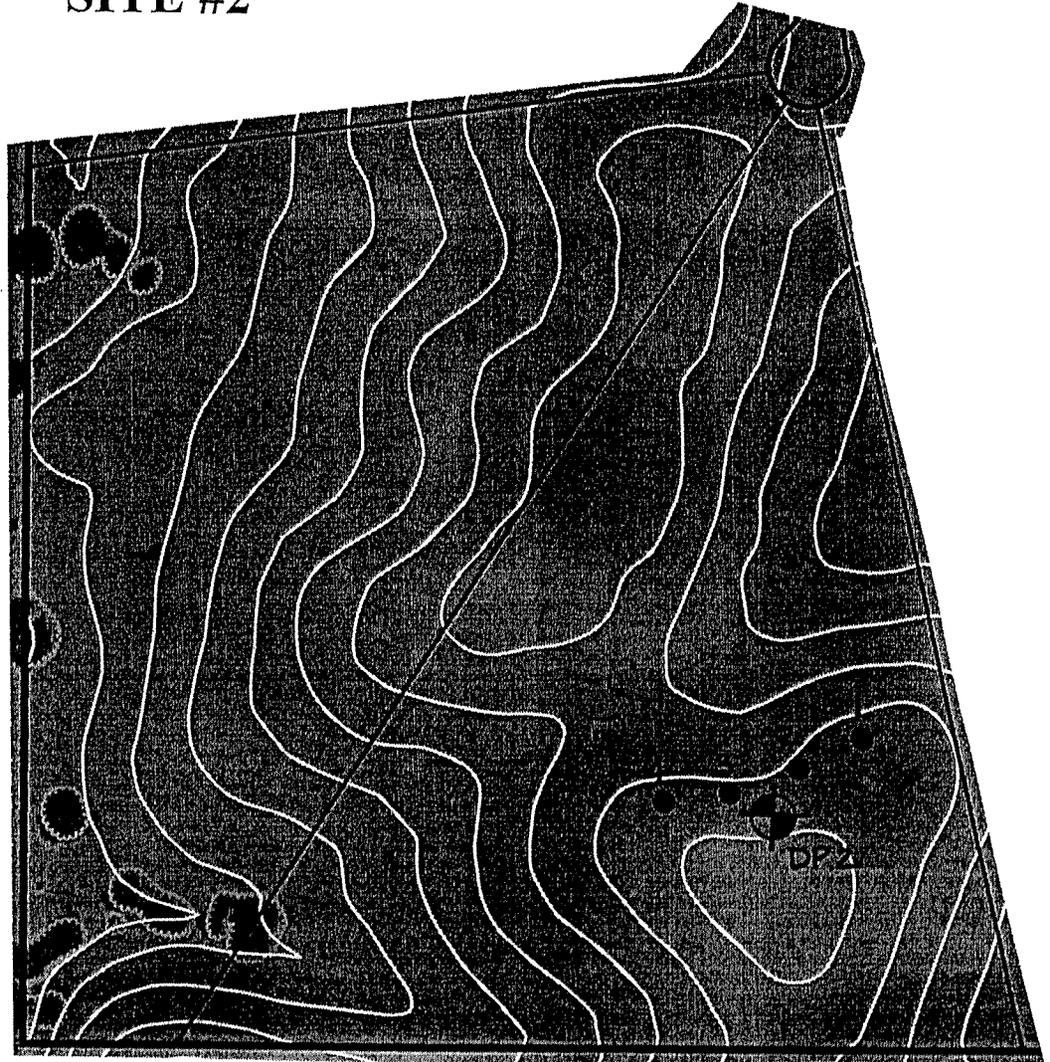


San Miguel Ranch  
 Allendre Road  
 San Miguel  
 vicinity of San Luis Obispo County  
 California

Date: 09-29-06

Plate 3

# SITE #2



Legend

N.T.S.



Exploratory Soils Boring



Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

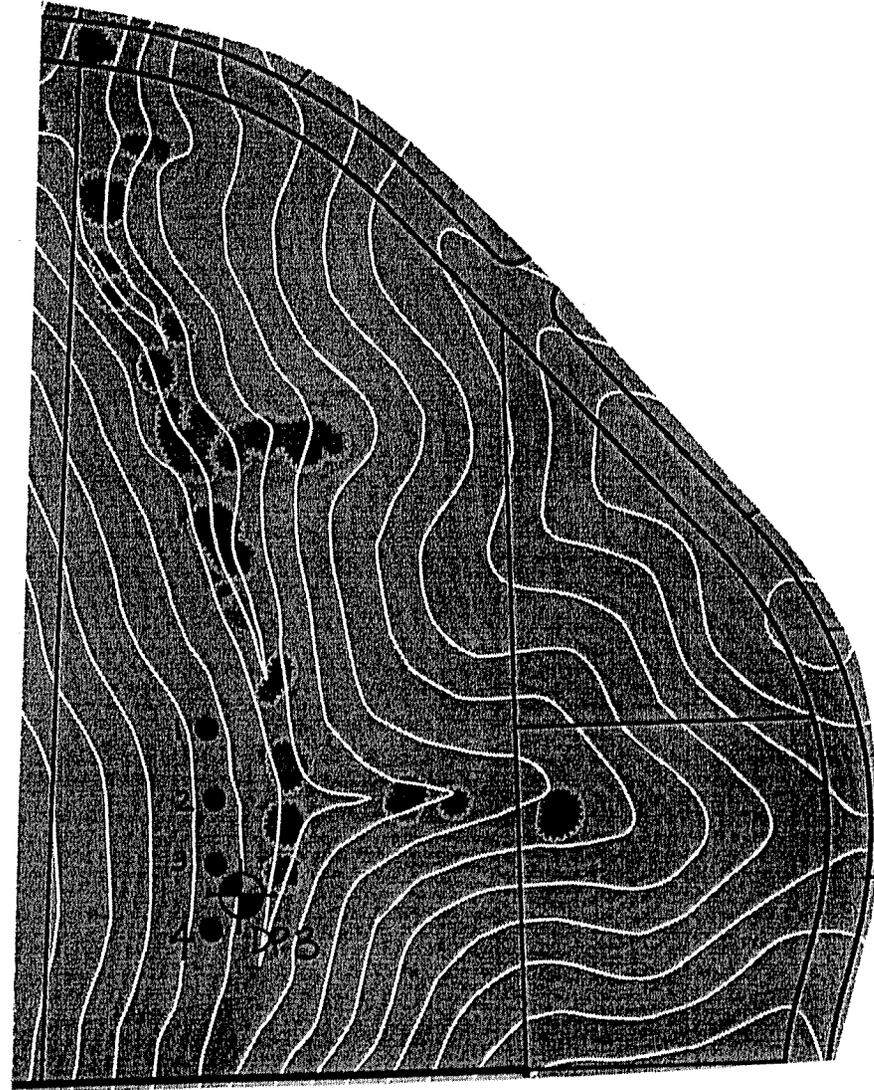
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Allendre Road  
San Miguel  
vicinity of San Luis Obispo County  
California

Date: 09-29-06

Plate 4

# SITE #3



Legend

N.T.S.



Exploratory Soils Boring



Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

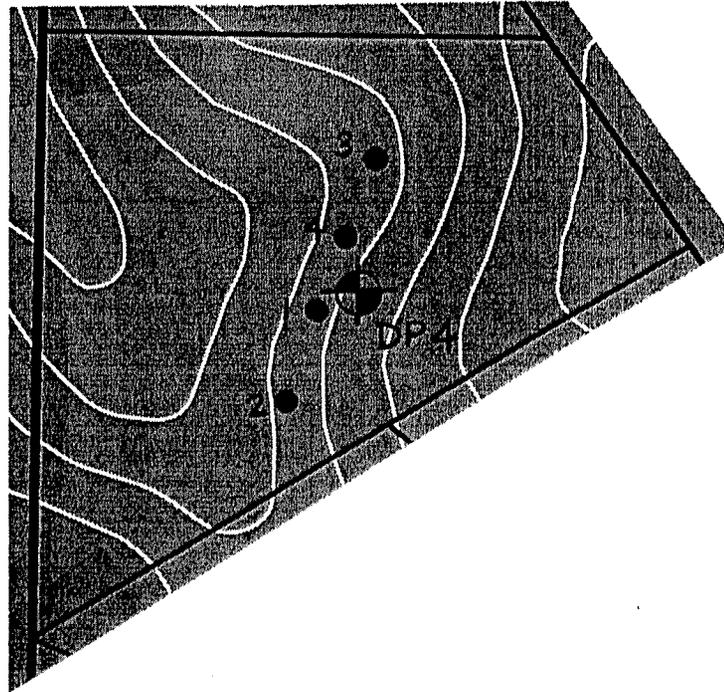
**MCG** MID-COAST  
GEOTECHNICAL, INC.

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San Miguel  
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California

Date: 09-29-06

Plate 5

# SITE #4



Legend

N.T.S.



Exploratory Soils Boring



Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

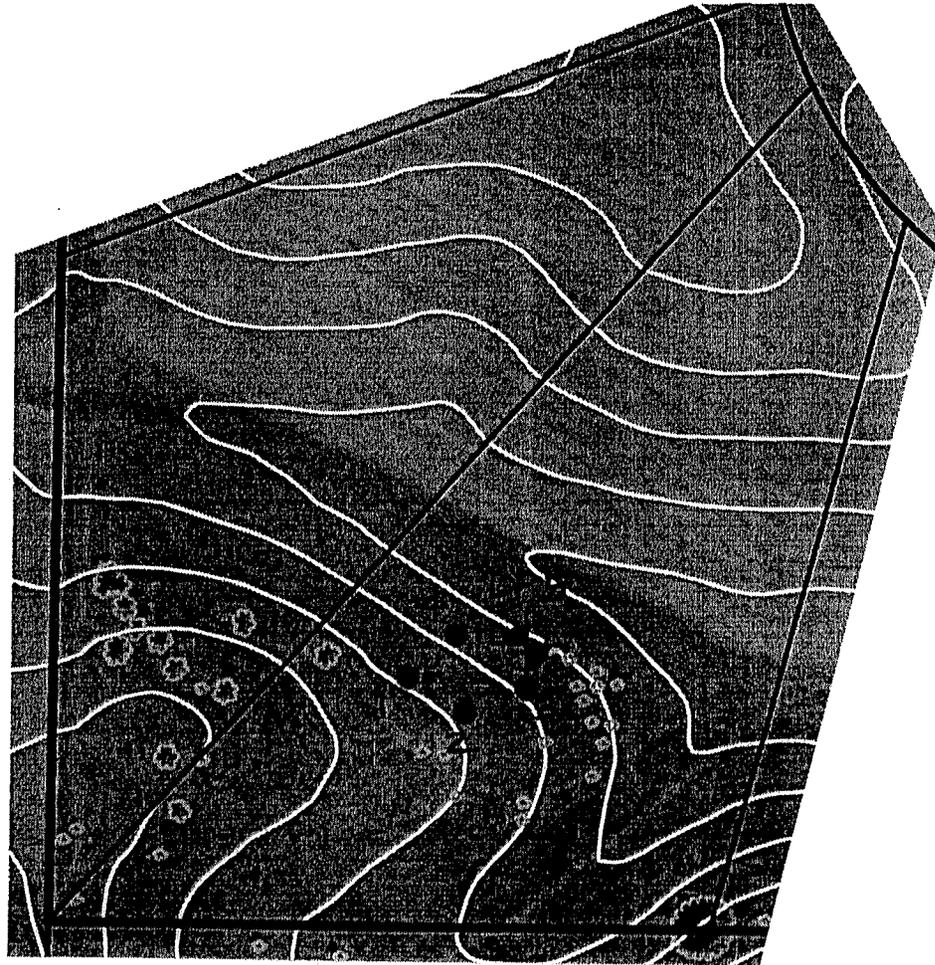
**MCG** MID-COAST  
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Allendre Road  
San Miguel  
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California

Date: 09-29-06

Plate 6

# SITE #5



## Legend

N.T.S.



Exploratory Soils Boring



Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

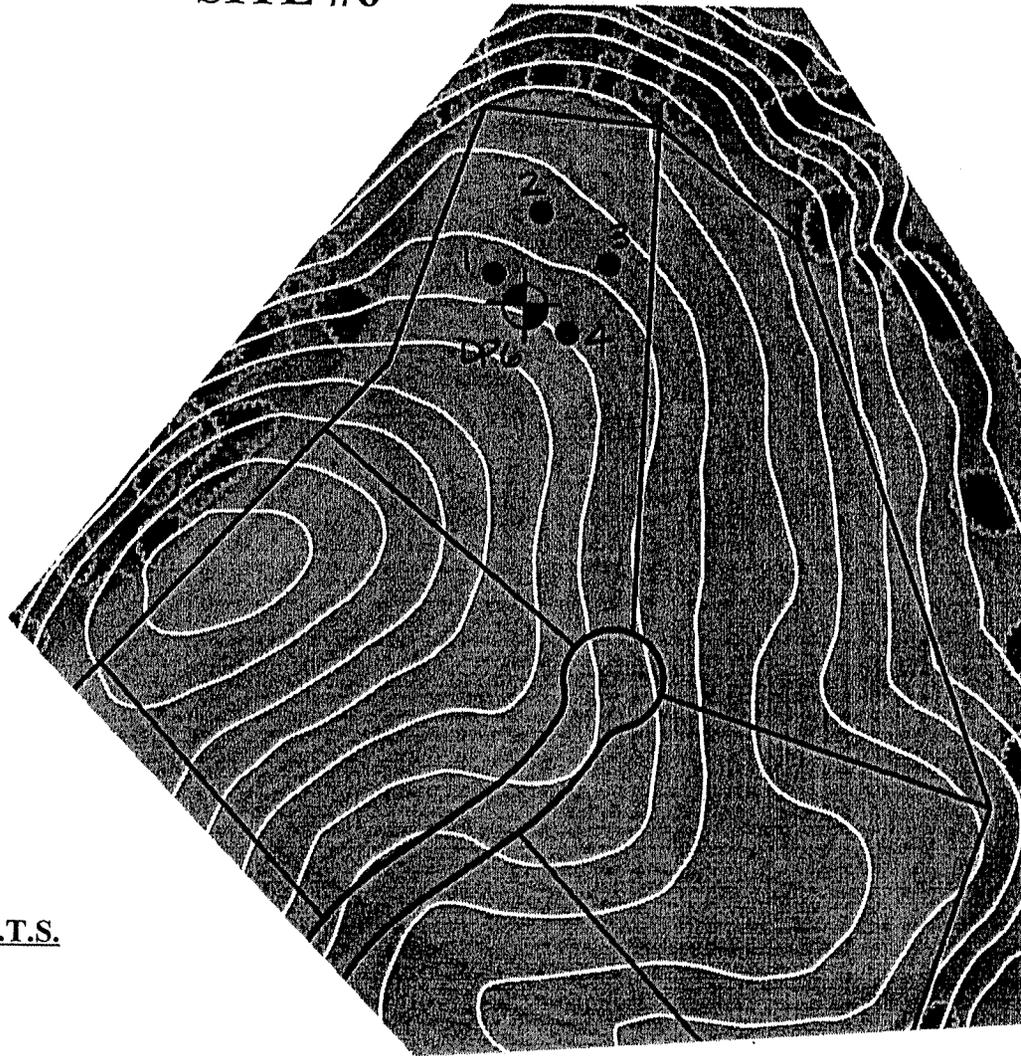
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GEOTECHNICAL, INC.

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San Miguel  
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California

Date: 09-29-06

Plate 7

# SITE #6



Legend

N.T.S.



Exploratory Soils Boring



Percolation Test Pit

\*PLAN PROVIDED BY OTHERS

**MCG** MID-COAST  
GEOTECHNICAL, INC.

San Miguel Ranch  
Allendre Road  
San Miguel  
vicinity of San Luis Obispo County  
California

Date: 09-29-06

Plate 8

# LOG OF BORING DP1



**CLIENT:** San Miguel Ranch, LLC  
**PROJECT:** Proposed Residential/Commercial Development  
**LOCATION:** Allendre Road, San Miguel  
**NUMBER:** 06-5798

1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

**DATE(S) DRILLED:** 8/15/2006

FIELD DATA				LABORATORY DATA						CLASS.				
DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT	PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
							LL	PL	PI					
5														Dark brown sandy CLAY, soft, humid
10														Brown clayey SAND, medium dense to hard, damp
15														Light brown silty SAND, hard, damp
20														Total Depth 20'

**DRILLING METHOD(S):**  
 B24 Drill Rig, 6 inch solid flight auger

**GROUNDWATER INFORMATION:**  
 No groundwater was encountered at time of drilling

**SURFACE ELEVATION:**

**DESCRIPTION OF STRATUM**

Dark brown sandy CLAY, soft, humid

Brown clayey SAND, medium dense to hard, damp

Light brown silty SAND, hard, damp

N - STANDARD PENETRATION TEST RESISTANCE  
 P - POCKET PENETROMETER RESISTANCE  
 T - POCKET TORVANE SHEAR STRENGTH

**REMARKS:**  
 Boring was backfilled with auger clippings

## LOG OF BORING DP2



**CLIENT:** San Miguel Ranch, LLC  
**PROJECT:** Proposed Residential/Commercial Development  
**LOCATION:** Allendre Road, San Miguel  
**NUMBER:** 06-5798

1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

**DATE(S) DRILLED:** 8/15/2006

FIELD DATA			LABORATORY DATA							CLASS.			
DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
						LL	PL	PI					
0													
5													Dark brown sandy CLAY, firm, damp
10													Brown sandy CLAY, stiff, damp
15													Brown silty SAND with gravel, hard, damp
20													

**DRILLING METHOD(S):**  
B24 Drill Rig, 6 inch solid flight auger

**GROUNDWATER INFORMATION:**  
No groundwater was encountered at time of drilling

**SURFACE ELEVATION:**  
**DESCRIPTION OF STRATUM**

**N - STANDARD PENETRATION TEST RESISTANCE**  
**P - POCKET PENETROMETER RESISTANCE**  
**T - POCKET TORVANE SHEAR STRENGTH**

**REMARKS:**  
 Boring was backfilled with auger clippings

# LOG OF BORING DP3



1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

CLIENT: San Miguel Ranch, LLC  
 PROJECT: Proposed Residential/Commercial Development  
 LOCATION: Allendre Road, San Miguel  
 NUMBER: 06-5798

DATE(S) DRILLED: 8/17/2006

FIELD DATA				LABORATORY DATA							CLASS.		
DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
						LL	PL	PI					
													DRILLING METHOD(S): B24 Drill Rig, 6 inch solid flight auger  GROUNDWATER INFORMATION: No groundwater was encountered at time of drilling  SURFACE ELEVATION:
													DESCRIPTION OF STRATUM Brown sandy CLAY with gravel, firm to stiff, damp
5													Light brown sandy SILT, stiff, damp
10													Light brown silty SAND, hard, damp
15													Light brown sandy SILT, stiff, damp
													Total Depth - 20'
N - STANDARD PENETRATION TEST RESISTANCE P - POCKET PENETROMETER RESISTANCE T - POCKET TORVANE SHEAR STRENGTH												REMARKS: Boring was backfilled with auger clippings	

# LOG OF BORING DP4



**CLIENT:** San Miguel Ranch, LLC  
**PROJECT:** Proposed Residential/Commercial Development  
**LOCATION:** Allendre Road, San Miguel  
**NUMBER:** 06-5798

1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

**DATE(S) DRILLED:** 8/17/2006

FIELD DATA				LABORATORY DATA						CLASS.			
DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
						LL	PL	PI					
													<b>DRILLING METHOD(S):</b> B24 Drill Rig, 6 inch solid flight auger
													<b>GROUNDWATER INFORMATION:</b> No groundwater was encountered at time of drilling
													<b>SURFACE ELEVATION:</b> _____
													<b>DESCRIPTION OF STRATUM</b> Brown sandy CLAY with gravel, firm to stiff, damp
5													Light brown silty SAND, hard, damp
10													Olive brown sandy SILT, stiff, damp
15													
													Total Depth - 20'
<b>N - STANDARD PENETRATION TEST RESISTANCE</b> <b>P - POCKET PENETROMETER RESISTANCE</b> <b>T - POCKET TORVANE SHEAR STRENGTH</b>												<b>REMARKS:</b> Boring was backfilled with auger clippings	

# LOG OF BORING DP5



1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

CLIENT: San Miguel Ranch, LLC  
 PROJECT: Proposed Residential/Commercial Development  
 LOCATION: Allendre Road, San Miguel  
 NUMBER: 06-5798

DATE(S) DRILLED: 8/21/2006

FIELD DATA		LABORATORY DATA							CLASS.			
DEPTH (FT)	SAMPLES N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
					LL	PL	PI					
					LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX					
0												
5												
10												
15												
20												

DRILLING METHOD(S):  
 B24 Drill Rig, 6 inch solid flight auger

GROUNDWATER INFORMATION:  
 No groundwater was encountered at time of drilling

SURFACE ELEVATION:

DESCRIPTION OF STRATUM

Dark brown sandy SILT, soft, humid

Orangish brown sandy SILT, firm to stiff, damp

Brown silty SAND, hard, damp

Brown sandy SILT, stiff, damp

Total Depth - 20'

N - STANDARD PENETRATION TEST RESISTANCE  
 P - POCKET PENETROMETER RESISTANCE  
 T - POCKET TORVANE SHEAR STRENGTH

REMARKS:  
 Boring was backfilled with auger clippings

# LOG OF BORING DP6



**CLIENT:** San Miguel Ranch, LLC  
**PROJECT:** Proposed Residential/Commercial Development  
**LOCATION:** Allendre Road, San Miguel  
**NUMBER:** 06-5798  
**DATE(S) DRILLED:** 8/21/2006

1332 Vendel's Circle, Suite 190 Paso Robles, CA 93446  
 Telephone: 805-237-1462 Fax: 805-237-1483

FIELD DATA		LABORATORY DATA							CLASS.			
DEPTH (FT)	SAMPLES N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	DRY DENSITY POUNDS/CU.FT	RELATIVE COMPACTION (%)	ATTERBERG LIMITS			EXPANSION INDEX	MINUS NO. 200 SIEVE (%)	USCS	SOIL SYMBOL	SOIL TYPE
					LL	PL	PI					
<b>DRILLING METHOD(S):</b> B24 Drill Rig, 6 inch solid flight auger												
<b>GROUNDWATER INFORMATION:</b> No groundwater was encountered at time of drilling												
<b>SURFACE ELEVATION:</b>												
<b>DESCRIPTION OF STRATUM</b>												
											[Hatched Pattern]	Dark brown clayey SAND, loose, humid
											[Hatched Pattern]	Light brown clayey SAND, hard, damp
5											[Vertical Lines]	Orangish brown sandy SILT, stiff, damp
10											[Dotted Pattern]	Reddish brown silty SAND, hard, damp
15											[Dotted Pattern]	
0											[Dotted Pattern]	
											Total Depth - 20'	

N - STANDARD PENETRATION TEST RESISTANCE  
 P - POCKET PENETROMETER RESISTANCE  
 T - POCKET TORVANE SHEAR STRENGTH

**REMARKS:**  
 Boring was backfilled with auger clippings