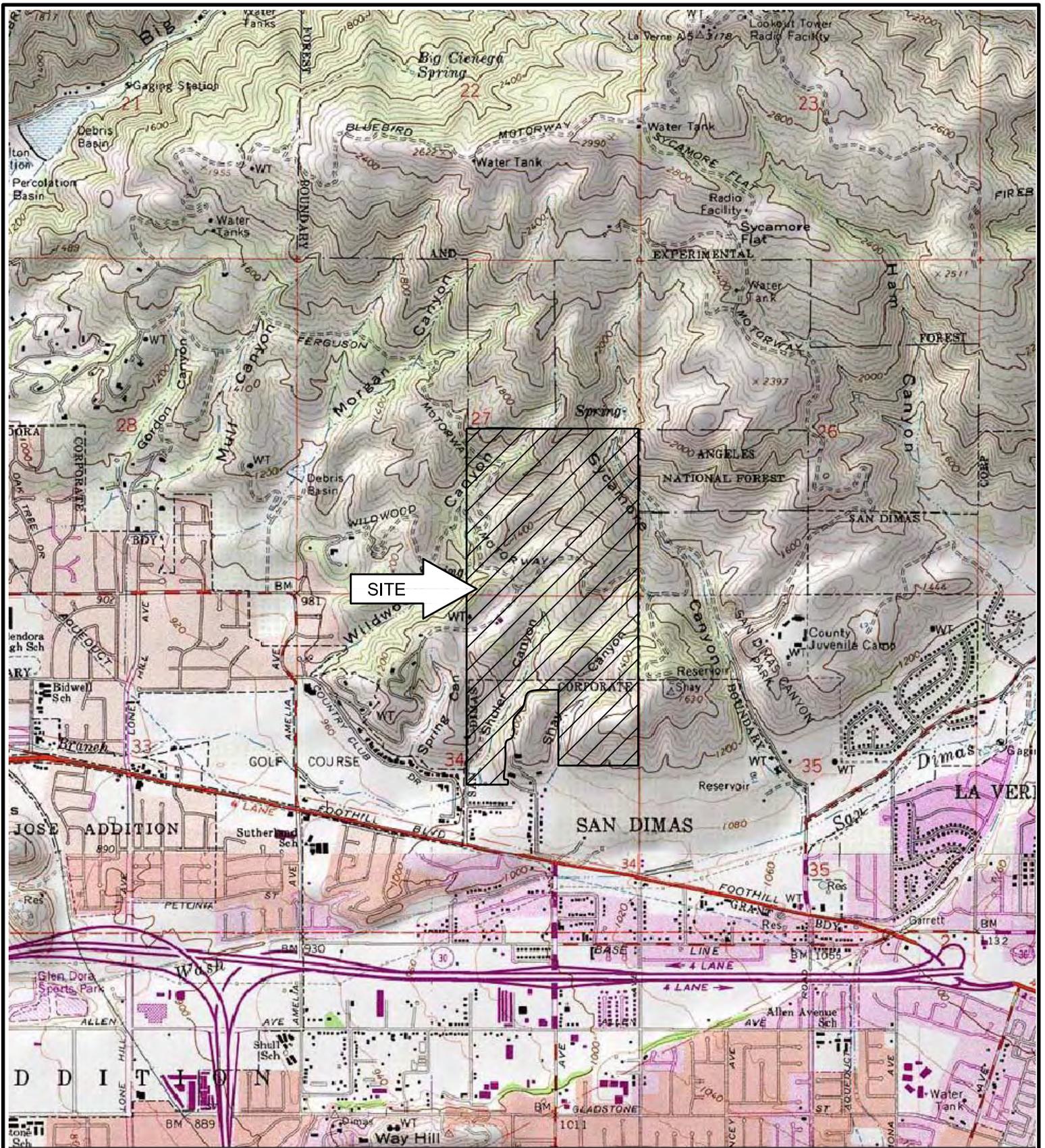
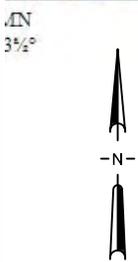
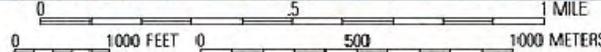


APPENDIX "A"

GEOTECHNICAL MAPS



SITE



SCALE: 1" = 2,000'

INDEX MAP		
FOR:	NJD, LTD.	ENCLOSURE "A-1"
DATE:	AUGUST 2009	JOB NUMBER 09355-3
		C.H.J. Incorporated

GEOTECHNICAL INVESTIGATION
300+ ACRE SITE
TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

GEOLOGIC UNITS:

- f-1 - fill derived from local materials, along roadways (not shown) and including imported concrete and asphalt cements at Head of West Branch Shular Canyon.
- Oya - Younger alluvium, limited to south of Shular Canyon.
- Qol - Colluvium, areas of thicker colluvium derived from slope wash and gravelly creos.
- Qdf - Debris flow deposits, clay-supported cobble/gravel conglomerates, locally sandy silt matrix, formed by Qool, exposed in test pits in Wildwood Canyon area.
- Qr - Older terrace deposits, including rounded cobbles/gravel of volcanic and granitic lithologies in sandy matrix capping Puente Formation.
- Qis - Landslide deposits, identified based on evaluation of topography, aerial photographs, prior mapping by others, and observation of rock outcrops and geomorphology of the site.
- TP - Puente Formation strata, thick bedded, white to orange brown, locally cemented, forms dark gray clayey colluvium (not cover) with tabular silstone fragments, includes areas of colluvium at bottom of ravines and drainage.
- Tgv - Glendora Volcanics, andesite flows and flow breccias, dark gray to purple, locally irregularly jointed, typically pervasively fractured. Forms red-brown clayey colluvium on slopes and in drainage.

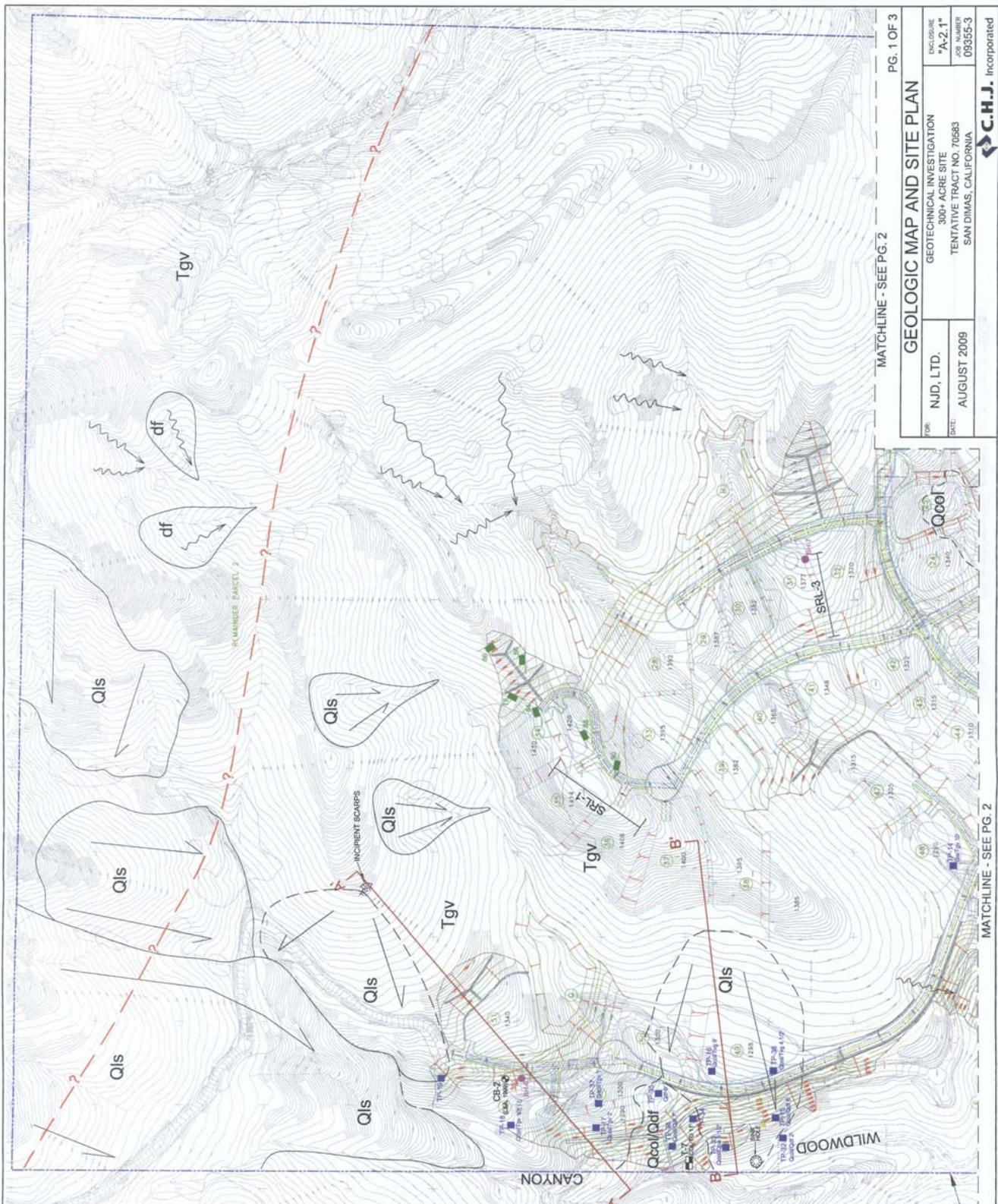
LEGEND:

- geologic contact
- Fault (not investigated for this project)
- Fault (Location based on field evidence)
- strike and dip of bedding
- strike and dip of joint
- strike and dip of shear plane
- Trend and plunge of syncline
- Trend and plunge of anticline
- approximate margins of landslide deposits based on photographic review, field mapping, interpretation of topographic contour map, queried where uncertain
- debris flow scar
- Area of steep topography and erosion, need to investigate debris areas of potential debris sources, based on photo review and field mapping, not all such areas shown.
- Bucket Auger Boring
- HSA-7 Hollow Stem Auger Boring
- TP-40 Backhoe Test Pit
- Qool/Tgv-3 - depth to contact between indicated geologic units
- SRL-3 Seismic Refraction Line
- Geologic Cross Section

Explorations by Leighton & Associates (1999)

- CB-2 Core Boring
- T-7 Test Pit
- FT-1 Fault Trench

SCALE: 1"=100'
0 100 200



FOR: NJD, LTD.		ENCLOSURE "A-2.1"	
DATE: AUGUST 2009		JOB NUMBER 09355-3	
GEOLOGIC MAP AND SITE PLAN GEOTECHNICAL INVESTIGATION 300+ ACRE SITE TENTATIVE TRACT NO. 70593 SAN DIMAS, CALIFORNIA			

MATCHLINE - SEE PG. 2

PG. 1 OF 3

MATCHLINE - SEE PG. 2

SITE BOUNDARY

GEOLOGIC UNITS:

- 1 - 18' derived from local materials, along roadways (not shown) and including imported concrete and asphalt drains at head of West Branch Shuler Canyon.
- Qys - Younger alluvium, limited to mouth of Shuler Canyon.
- Qcol - Colluvium, areas of thicker colluvium derived from slope wash and gravity creep.
- Qd - Debris flow deposits, clast-supported cobble/gravel conglomerates, and granitic boulders in sandy matrix capping Puente Formation.
- Ql - Older terrace deposits, including rounded cobbles/gravel of volcanic and granitic boulders in sandy matrix capping Puente Formation.
- Qs - Landslide deposits, identified based on evaluation of topography, aerial photographs, prior mapping by others, and observation of rock outcrops and geomorphology of the site.
- TP - Puente Formation alluvium, finely bedded, white to orange brown, locally cemented, forms dark gray clayey colluvium (old cover) with tabular siltsone fragments. Includes areas of colluvium at bottoms of terraces and drainages.
- Tp - Olivaceous Volcanics, andesite flows and flow breccias, dark gray to purple, locally irregularly jointed, typically pervasively fractured. Forms red-green clayey colluvium on slopes and in drainages.

LEGEND:

- geologic contact
- Fault
- Location based on FER map (not investigated for this project)
- Location based on field evidence
- strike and dip of bedding
- strike and dip of joint
- strike and dip of shear plane
- Trend and plunge of syncline
- Trend and plunge of anticline
- approximate margins of landslide deposits used on photographic interpretation of topographic contour map; queried where uncertain
- debris flow scar
- Area of steep topography associated with erosion along steep, narrow channels; defines debris flow scar areas, based on photo review and field mapping, not all such areas shown.
- Bucket Auger Boring
- Hollow Stem Auger Boring
- Beechhoe Test Pit
- Qcol/Typ 3' - depth to contact between indicated geologic units
- Seismic Refraction Line
- Geologic Cross Section

Explorations by Leighton & Associates (1999)

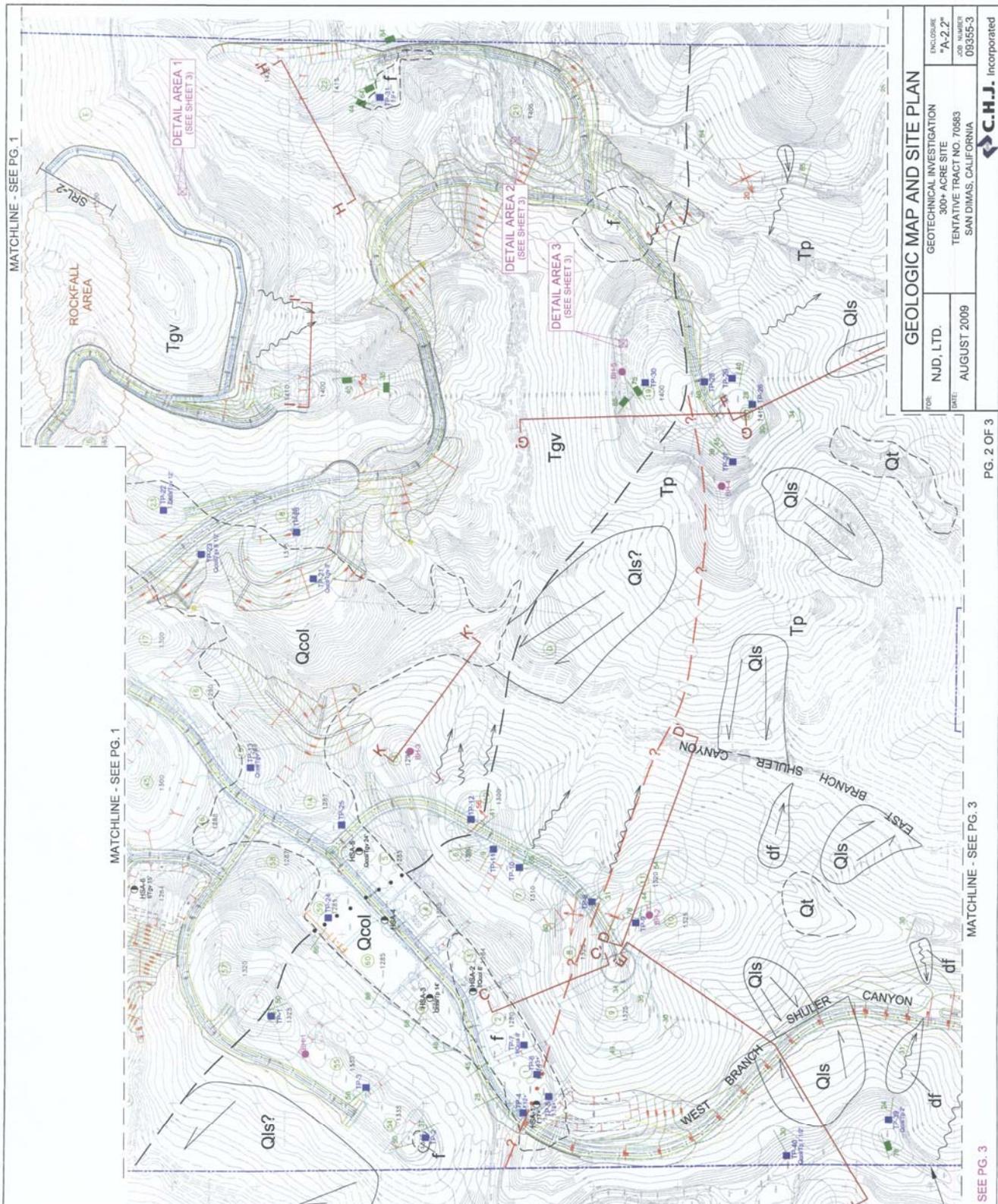
- CB-2 Core Boring
- TP-7 Test Pit
- FT-1 Fault Trench

SITE BOUNDARY

SCALE: 1"=100'



DETAIL AREAS: SEE PG. 3



GEOLOGIC MAP AND SITE PLAN	
FOR: N.J.D. LTD.	ENCLOSURE "A-2.2"
DATE: AUGUST 2009	GEOTECHNICAL INVESTIGATION
	300+ ACRE SITE
	TENTATIVE TRACT NO. 70583
	SAN DIMAS, CALIFORNIA
	JOB NUMBER 09355-3
	C.H.J. Incorporated

GEOLOGIC UNITS:

- F - fill derived from local materials, along roadways (not shown) and including imported concrete and asphalt (shown at head of West branch Shuler Canyon).
- Oya - Younger alluvium, limited to mouth of Shuler Canyon.
- Qd1 - Colluvium, areas of thicker colluvium derived from slope wash and gravelly clay.
- Qd2 - Debris flow deposits, clay-supported cobble/gravel conglomerates, matrix of fine sand and silt, locally graded silty sand matrix, bored by Qd2c, exposed in late pits in Wildwood Canyon area.
- Qc - Older terraced deposit, including rounded cobbles/gravel of volcanic and granitic lithologies in sandy matrix capping Puente Formation.
- Qls - Landslide deposits, identified based on evaluation of topography, aerial photographs, prior mapping by others, and observation of rock outcrops and geomorphology of the site.
- TP - Puente Formation alluvium, thin bedded, white to orange brown, locally cemented, forms dark gray clayey colluvium (soil cover) with tabular albite fragments. Includes areas of colluvium at bottoms of terraces and drainages.
- TPv - Glendora Volcanics, andesite flows and low breccias, dark gray to purple, locally irregularly jointed, typically pervasively fractured. Forms red brown clayey colluvium on slopes and in drainages.

LEGEND:

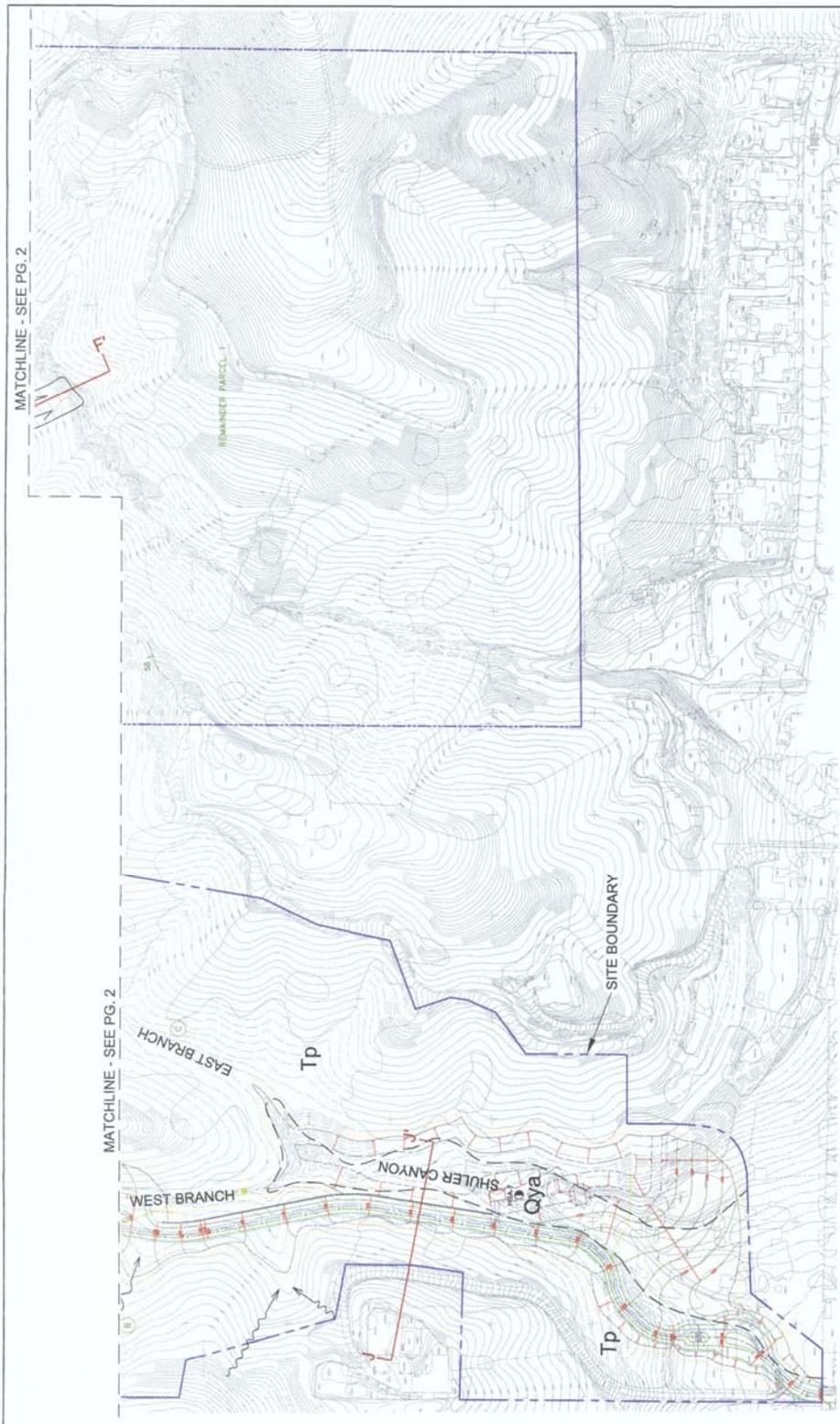
- - - geologic contact
- - - Fault
- - - Location based on FER map (not investigated for this project)
- - - Fault
- - - Location based on field evidence
- 80 strike and dip of bedding
- 81 strike and dip of joint
- 82 strike and dip of shear plane
- 83 Trend and plunge of syncline
- 84 Trend and plunge of anticline
- Qls approximate margins of landslide deposits based on photographic interpretation of topographic contour map, queried where uncertain
- df debris flow scar
- Area of steep topography associated with erosion along steep, narrow channels, defines areas of potential debris flow, based on photo interpretation and field mapping, not all such areas shown.

- BH-7 Bucket Auger Boring
- HSA-7 Hollow Stem Auger Boring
- TP-40 Backhoe Test Pit
- Qd1/TP-3 - depth to contact between indicated geologic units
- SRL-3 Seismic Refraction Line
- K Geologic Cross Section

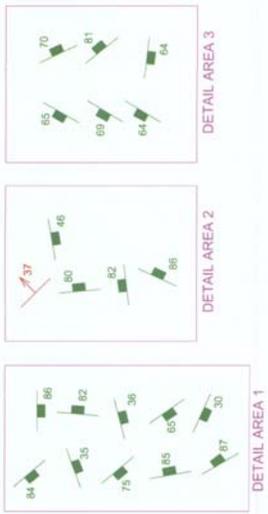
Explorations by Leighton & Associates (1999)

- CB-2 Core Boring
- T-7 Test Pit
- FT-1 Fault Trench

SCALE: 1"=100'
0 100 200

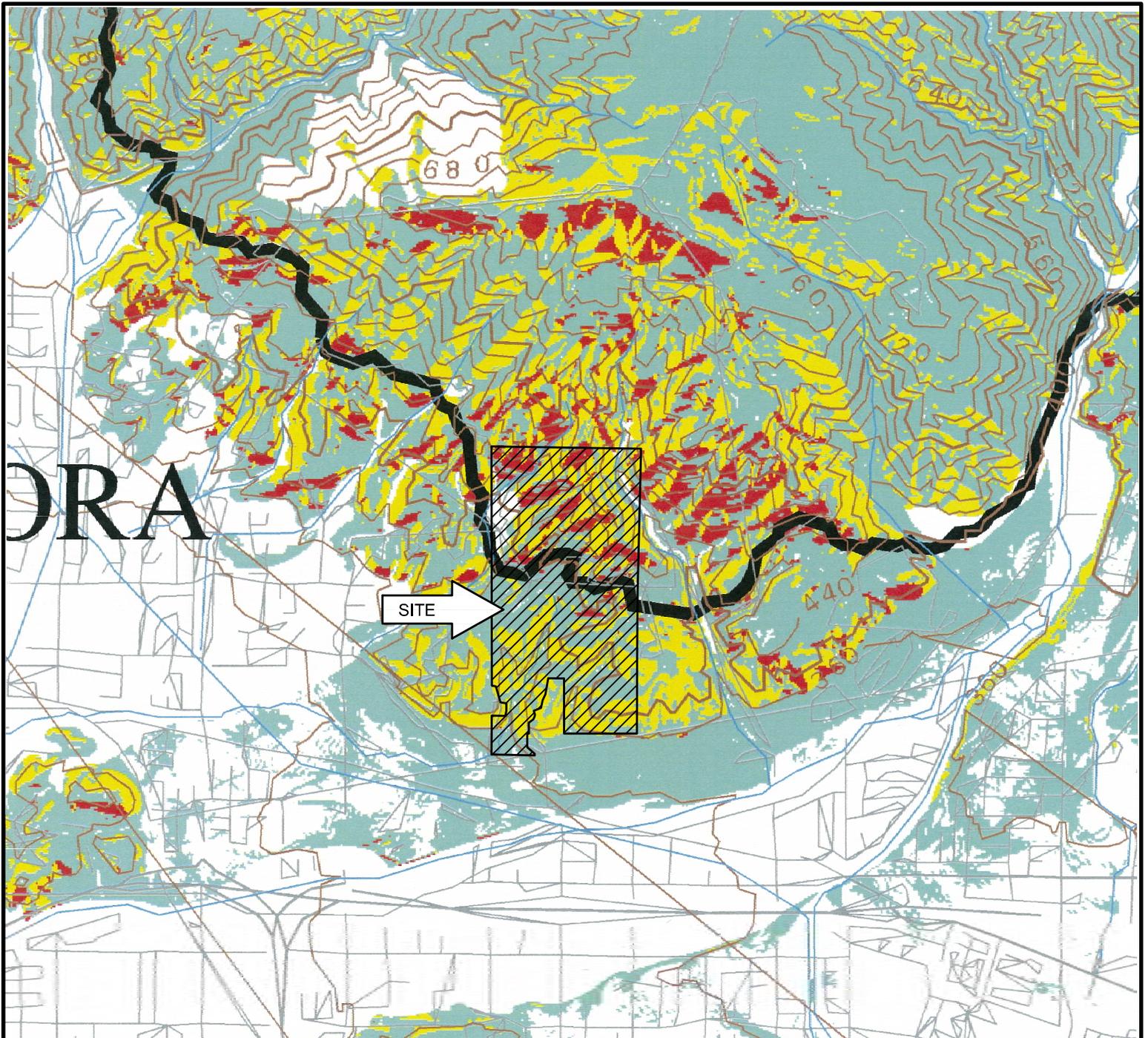


DETAIL AREAS:



GEOLOGIC MAP AND SITE PLAN		ENCLOSURE "A-2.3"
FOR: NJD, LTD.	GEOTECHNICAL INVESTIGATION 300+ ACRE SITE	JOB NUMBER 09355-3
DATE: AUGUST 2009	TENTATIVE TRACT NO. 70563 SAN DIMAS, CALIFORNIA	





(Base Map: Morton et al., 2003)



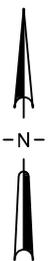
LOW SUSCEPTIBILITY



MODERATE SUSCEPTIBILITY



HIGH SUSCEPTIBILITY



SCALE: 1" = 1/2 MILE

SOIL SLIP SUSCEPTIBILITY MAP

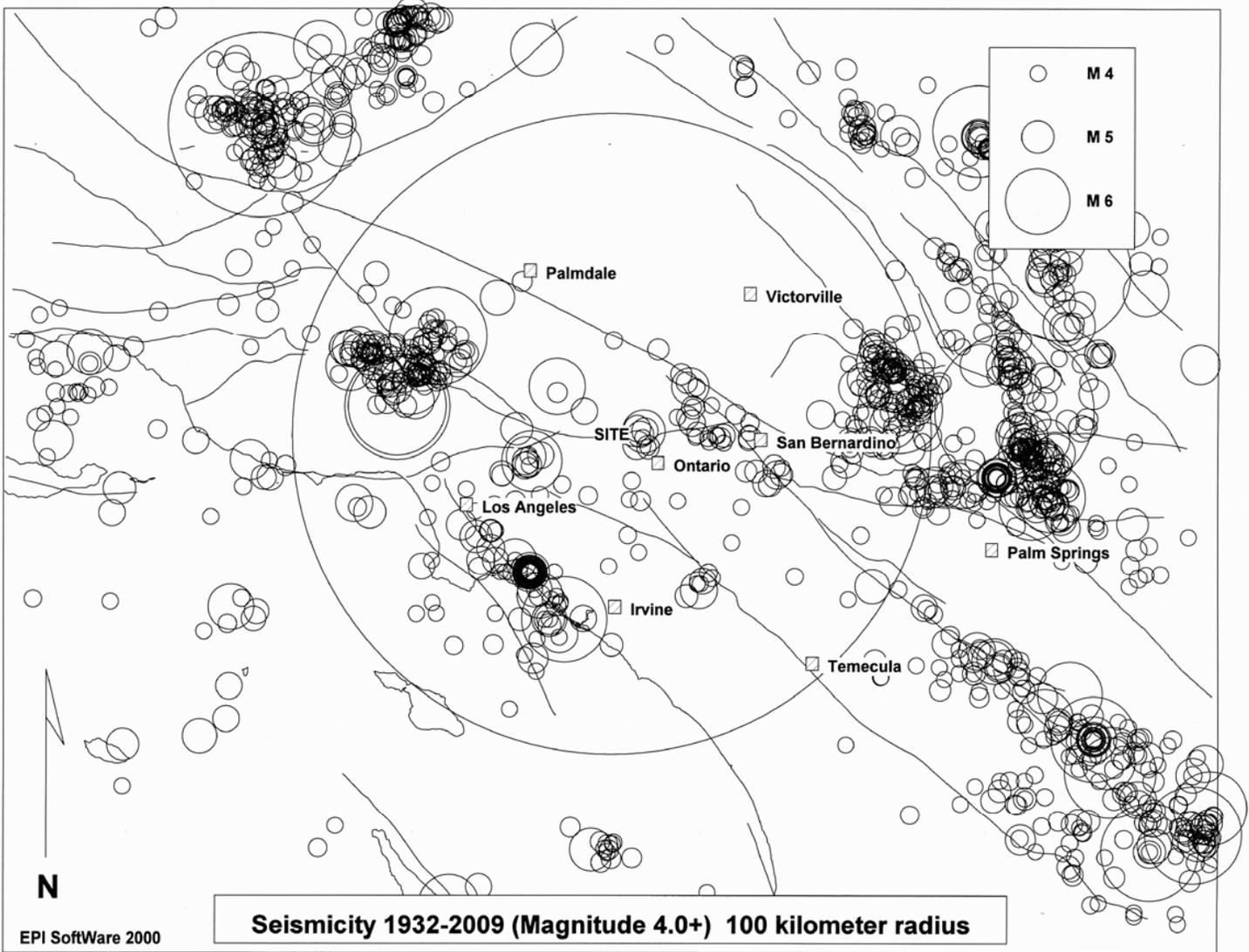
FOR: NJD, LTD.
DATE: AUGUST 2009

GEOTECHNICAL INVESTIGATION
300+ ACRE SITE
TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

ENCLOSURE
"A-4"

JOB NUMBER
09355-3

 **C.H.J.** Incorporated



SITE LOCATION: 34.1355 LAT. -117.8074 LONG.

MINIMUM LOCATION QUALITY: C

TOTAL # OF EVENTS ON PLOT: 1388

TOTAL # OF EVENTS WITHIN SEARCH RADIUS: 485

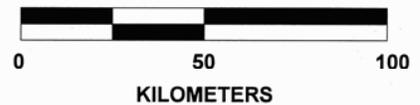
MAGNITUDE DISTRIBUTION OF SEARCH RADIUS EVENTS:

4.0- 4.9 : 435
 5.0- 5.9 : 45
 6.0- 6.9 : 5
 7.0- 7.9 : 0
 8.0- 8.9 : 0

CLOSEST EVENT: 4.7 ON THURSDAY, MARCH 01, 1990 LOCATED APPROX. 8 KILOMETERS EAST OF THE SITE

LARGEST 5 EVENTS:

6.7 ON MONDAY, JANUARY 17, 1994 LOCATED APPROX. 67 KILOMETERS WEST OF THE SITE
 6.6 ON MONDAY, JANUARY 17, 1994 LOCATED APPROX. 67 KILOMETERS WEST OF THE SITE
 6.6 ON TUESDAY, FEBRUARY 09, 1971 LOCATED APPROX. 62 KILOMETERS NORTHWEST OF THE SITE
 6.4 ON SUNDAY, JUNE 28, 1992 LOCATED APPROX. 90 KILOMETERS EAST OF THE SITE
 6.4 ON SATURDAY, MARCH 11, 1933 LOCATED APPROX. 59 KILOMETERS SOUTH OF THE SITE



EARTHQUAKE EPICENTER MAP

FOR: NJD, LTD.

GEOTECHNICAL INVESTIGATION
300+ ACRE SITE

ENCLOSURE
"A-6"

DATE:
AUGUST 2009

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

JOB NUMBER
09355-3

APPENDIX "B"

EXPLORATORY LOGS

KEY TO LOGS

LEGEND OF LAB/FIELD TESTS:

AL	Atterberg limits (ASTM D 4318)
Blows	A measure of the penetration resistance of soil expressed as the number of hammer blows required to advance the indicated sampler 6 inches (or less if noted). Samplers are driven with an automatic hammer that drops a 140-pound weight 30 inches for each blow. After the required seating, samplers are advanced up to 18 inches ahead of the boring, providing up to 3 sets of blows per drive.
Bulk	Indicates Disturbed or Bulk Sample
Consol.	Consolidation Test (ASTM D 2435)
Cor.	Chemical/Corrosivity Tests (Caltrans 417, 422, & 643)
Dist.	Indicates Disturbed Sample
DS	Direct Shear Test (ASTM D 3080)
Exp.	Expansion Test (ASTM D 4829)
MDC	Maximum Density Optimum Moisture Test (ASTM D 1557)
N.R.	Indicates No Recovery of Sample
Ring	Indicates Relatively Undisturbed Ring Sample. The number of blows per 6 inches required to drive a "California Sampler" (3.25" O.D. and 2.42" I.D.) 18 inches using a 140-pound weight falling 30 inches was recorded.
SA	Sieve Analysis (ASTM C 117/136)

SOIL CLASSIFICATION CHART

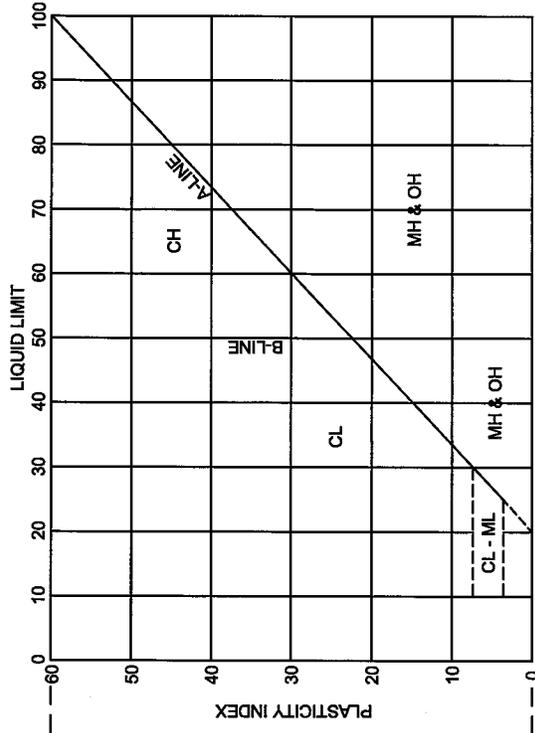
MAJOR DIVISIONS		GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE FRAGMENTATION RETAINED ON NO. 4 SIEVE		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	SAND AND SANDY SOILS		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
FINE GRAINED SOILS	MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRAGMENTATION PASSING NO. 4 SIEVE		SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SILTS AND CLAYS	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
	LIQUID LIMIT LESS THAN 50		SC	CLAYEY SANDS, SAND-CLAY MIXTURES
HIGHLY ORGANIC SOILS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
	LIQUID LIMIT GREATER THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
HIGHLY ORGANIC SOILS	LIQUID LIMIT GREATER THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE		MH	INORGANIC SILTY, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
HIGHLY ORGANIC SOILS	LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
	MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

GRADATION CHART

MATERIAL SIZE	PARTICLE SIZE			
	LOWER LIMIT		UPPER LIMIT	
	MILLIMETERS	SIEVE SIZE	MILLIMETERS	SIEVE SIZE
SAND	.074	#200x	0.42	#40 x
	0.42	#40 x	2.00	#10 x
	200	#10 x	4.76	#4 x
GRAVEL	4.76	#4 X	191	3/4"
	191	3/4"	76.2	3"
COBBLES	76.2	3"	304.8	12"
BOULDERS	304.8	12	914.4	36"

x US STANDARD • CLEAR SQUARE OPENINGS

PLASTICITY CHART



UNIFIED SOIL CLASSIFICATION SYSTEM



EXPLORATORY BORING NO. HSA-1

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

Surface Elevation(ft): 1266

Logged by: VJR

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SM) Silty Sand, fine to medium with coarse, clay and gravel to 1-1/2", light brown	Fill			30 43 20	2.9 5.6	121	Ring
		(SC) Clayey Sand, fine to medium with silt and gravel to 2", dark brown				12 20 28	7.1 10.1	102	Ring
		(SM) Silty Sand, fine with medium, clay and gravel to 1", brown	Asphalt Debris			6 7 10	13.6 15.8	Dist.	Ring
15						50/5"	3.7	Dist.	Ring
20		END OF BORING REFUSAL AT 17.0', NO BEDROCK FILL TO 17.0', SLIGHT CAVING NO FREE GROUNDWATER	Refusal						
25									
30									

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-1

EXPLORATORY BORING NO. HSA-2

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

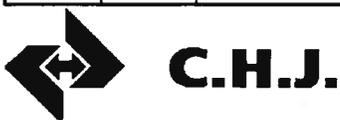
Surface Elevation(ft): 1265

Logged by: VJR

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SC) Clayey Sand, fine to medium with silt, gravel to 1", brown	Fill				15.5		
5				X		14 14 14	25.4	92	Ring
		(SC) Clayey Sand, fine to medium with coarse and silt, dark brown	Qcol				25.7 21.1	94	Ring
10				X		7 12 21			
				X		7 18 25	24.6	89	Ring
15				X		11 17 24	28.6	92	Ring
20				X		11 14 22	29.9 28.2	90	Ring
25		(CL) Clay with Sand and silt, fine to medium, brown		X		12 27 31	26.0	96	Ring
30		(CL) Clay with Sand and silt, fine to medium, brown		X		17 43 50/5"	25.5	93	Ring
		BORING TERMINATED AT 33.5' NO REFUSAL, NO BEDROCK, FILL TO 8.0' SLIGHT CAVING, NO FREE GROUNDWATER							
		END OF BORING							

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-2

EXPLORATORY BORING NO. HSA-4

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

Surface Elevation(ft): 1265

Logged by: VJR

Measured Depth to Water(ft): 42.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SM) Elastic Silty Sand, fine to medium with clay, brown	Qcol				9.7		
		(SM) Silty Sand, fine to medium with clay, brown				10 16 19	13.0	96	Ring
10		(ML) Sandy Silt, fine with medium and clay, dark brown				11 11 16	25.8 24.4	94	Ring, Al, Consol.,
					9 16 20	29.5	85	Ring	
20						9 13 15	27.9	94	Ring
					12 19 25	17.7	110	Ring, AL, Consol.	
25		(SM) Elastic Silty Sand, fine to medium with coarse and clay, brown					22.7		
					14 21 25	24.3	99	Ring	
30						16 23 34	27.5	95	Ring

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-4a

EXPLORATORY BORING NO. HSA-4

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

Surface Elevation(ft): 1265

Logged by: VJR

Measured Depth to Water(ft): 42.0

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
40	[Stippled pattern]	(SM) Silty Sand, fine to medium with coarse and clay, brown	Qcol ▼ Groundwater	X		22 19 23	25.8	96	Ring
45	[Stippled pattern]			X		11 12 16	25.5	89	Ring, AL, Consol.
50	[Stippled pattern]			X		10 12 18	37.5	84	Ring
55	[Stippled pattern]			X		19 24 48	25.5	95	Ring
55		END OF BORING							
60		NO REFUSAL, NO BEDROCK NO FILL, SLIGHT CAVING GROUNDWATER AT 42.0'							
65									

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3 GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-4b

EXPLORATORY BORING NO. HSA-5

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

Surface Elevation(ft): 1262

Logged by: VJR

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SC) Clayey Sand, fine to medium with silt, brown	Qool	X	X	15	10.1	N.R.	Ring
		(SC) Clayey Sand, fine to coarse with silt, dark brown		X	X	18	N.R.	N.R.	Ring
5				X	X	22	24.0		
				X	X	11	19.8	103	Ring
				X	X	15			
				X	X	27			
10		Puente Formation (Tp), recovered as (CL) Sandy Clay, fine to medium with coarse, brown		X	X	3	N.R.	N.R.	Ring
				X	X	4			
				X	X	7			
15				X	X	7	28.0	92	Ring
				X	X	12			
				X	X	16			
20				X	X	6	26.2	111	Ring
				X	X	14			
				X	X	22			
25		Puente Formation (Tp), recovered as (SC) Clayey Sand, fine to medium with silt, brown	Bedrock	X	X	22	29.9		
				X	X	30	22.5	96	Ring
				X	X	50/5"			
30				X	X	26	22.8	97	Ring
				X	X	50/5"			
		END OF BORING							
		NO REFUSAL, BEDROCK AT 24.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ,GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-5

EXPLORATORY BORING NO. HSA-6

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

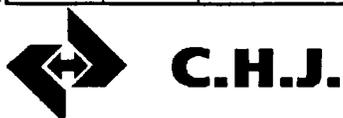
Surface Elevation(ft): 1242

Logged by: VJR

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SM) Silty Sand, fine to medium with coarse and clay, gravel to 2", gray brown	Fill	X	X		9.7		
5	[Dotted pattern]			X	X	18 16 13	13.2	107	Ring
10	[Dotted pattern]			X	X	9 12 17	15.6	87	Ring
15	[Cross-hatch pattern]	Puente Formation (Tp), recovered as (SM) Silty Sand, fine to medium with coarse, gravel to 2", gray	Bedrock	X	X	34 50/5"	10.2	130	Ring
20	[Cross-hatch pattern]			X	X				
25	[Cross-hatch pattern]	END OF BORING NO REFUSAL, BEDROCK AT 15.0' FILL TO 15.0', SLIGHT CAVING NO FREE GROUNDWATER		X	X	50/4"	12.4	Dist.	Ring
30	[Cross-hatch pattern]			X	X				

BORING LOG - NO EQUIV & BLOW PER 6 IN. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-6

EXPLORATORY BORING NO. HSA-7

Date Drilled: 7/1/09

Client: NJD, LTD.

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lbs./30 in.

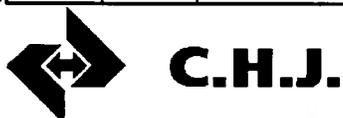
Surface Elevation(ft): 1038

Logged by: VJR

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
		(SM) Silty Sand, fine to medium with clay, dark brown	Qya				11.8		
				X	X	9 6	14.6	99	Ring
5		(SC) Clayey Sand, fine to medium with silt, dark brown					20.4		
				X	X	6 9 10	26.0	84	Ring
10									
15				X		17 17 25	19.8	106	Ring
20									
		(SM) Silty Sand, fine to medium with coarse, clay and gravel to 3", brown					11.7		
25				X		12 16 19	23.4	101	Ring
30		END OF BORING NO REFUSAL, NO BEDROCK NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							

BORING LOG - NO EQUIV & BLOW PER 6 IN. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-7

EXPLORATORY TEST PIT NO. TP-1

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1362.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	XXXXXXXXXXXXXXXXXXXX	(SM) Silty Sand, fine to coarse, brown	Qcol		XXXX		20.1		
2	XXXXXXXXXXXXXXXXXXXX	Puente Formation (Tp), Siltstone cemented well to thickly bedded 1/2" to 4" thick, locally sheared, weathered, oxidized Bedding - N20W/50NE to N30W/80SW overturned pervasive fractures and joints	Bedrock						
3	XXXXXXXXXXXXXXXXXXXX								
4	XXXXXXXXXXXXXXXXXXXX								
5	XXXXXXXXXXXXXXXXXXXX								
6		END OF TEST PIT							
7		NO REFUSAL, BEDROCK AT 1.0'							
8		NO FILL, SLIGHT CAVING							
9		NO FREE GROUNDWATER							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-8

EXPLORATORY TEST PIT NO. TP-2

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1347.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand, fine, dark gray	Fill		[Cross-hatch pattern]		13.8		
2	[Cross-hatch pattern]	Puente Formation (Tp), recovered as (SM) Silty Sand, fine to medium with coarse, siltstone interbedded with 2" thick sandstone, massive, weathered, orange light brown, tight Bedding - N26W/37NE	Bedrock		[Cross-hatch pattern]		18.2		
3	[Cross-hatch pattern]								
4	[Cross-hatch pattern]								
5		END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0' FILL TO 2.0', SLIGHT CAVING NO FREE GROUNDWATER							
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-9

EXPLORATORY TEST PIT NO. TP-3

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1350.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	•••••	(SM) Silty Sand, fine to medium with siltstone fragments to 2", dark gray	Qcol		■		18.8		
2	x x x x x	Puente Formation (Tp), well bedded locally. Bedding - N40W/51NE with sandstone beds Bedding - N41W/56NE 5" thick cemented, fine to medium	Bedrock						
3	x x x x x								
4	x x x x x	Siltstone with carbonate coatings on surfaces Joints perpendicular to bedding weathered, friable, upper 20" becoming tighter, less weathered downward							
5	x x x x x								
6		END OF TEST PIT							
7		NO REFUSAL, BEDROCK AT 2.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-10

EXPLORATORY TEST PIT NO. TP-4

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1268.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS	
				DENSITY	BULK					
1	[Graphic Log Pattern]	(SM) Silty Sand, fine to medium with clay, dark gray, orange brown	Fill				14.4			
2										
3										
4				Concrete debris and boulders at 4.5' fines, brick metal, very heavy caving, loose debris, matrix is (SM) Silty Sand, fine to coarse with cobbles and boulders to 18", dark gray, rounded clasts				4.8		
5										
6										
7										
8										
9										
10										
11										
12				END OF TEST PIT						
13		NO REFUSAL, NO BEDROCK FILL TO 12.0' +, HEAVY CAVING NO FREE GROUNDWATER								
14										
15										
16										
17										
18										
19										

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 6/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-11

EXPLORATORY TEST PIT NO. TP-5

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1266.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium with coarse, asphalt fragments, cobbles to 6", abundant concrete debris to 50" x 40" x 10" metal pipe, asphalt debris	Fill				6.6		
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12				END OF TEST PIT					
13		NO REFUSAL, NO BEDROCK FILL TO 12.0' +, HEAVY CAVING NO FREE GROUNDWATER							
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ/GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-12

EXPLORATORY TEST PIT NO. TP-6

Date Excavated: 6/30/09

Client: NJD, LTD.

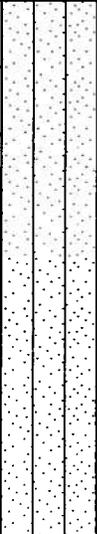
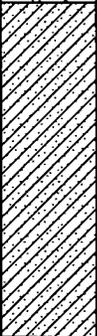
Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1266.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium, cobbles to 6", dark gray, asphalt debris, metal, wood	Fill				5.3		
2									
3									
4									
5									
6									
7									
8		(SC) Sand, blue black organic rich clayey soil, odoriferous, moist plastic with concrete debris					25.4		
9									
10									
11									
12									
13	END OF TEST PIT								
14	NO REFUSAL, NO BEDROCK FILL TO 13.0' +, HEAVY CAVING NO FREE GROUNDWATER								
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-13

EXPLORATORY TEST PIT NO. TP-7

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1263.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium, with cobbles, red brown	Fill				9.7		
2									
3									
4									
5									
6		Asphalt debris layer, gray brown							
7									
8									
9		(ML) Clayey Silt, stiff with siltstone fragments to 2", mottled brown, light yellow	Qcol				32.7		
10									
11									
12									
13									
14									
15									
16		END OF TEST PIT							
17		NO REFUSAL, NO BEDROCK							
18		FILL TO 9.0', SLIGHT CAVING							
19		NO FREE GROUNDWATER							

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-14

EXPLORATORY TEST PIT NO. TP-8

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1358.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(ML) Sandy Silt, fine with siltstone fragments to 3", brown gray	Qcol		18.8				
2	xxxxxx	Puente Formation (Tp), weathered clayey upper 12" grading to tight, well-bedded siltstone with cemented sandstone interbeds Bedding - N65W/32SW N60W/31SW	Bedrock		27.9				
3	xxxxxx								
4	xxxxxx								
5	xxxxxx								
6		END OF TEST PIT							
7		NO REFUSAL, BEDROCK AT 2.0'							
8		NO FILL, SLIGHT CAVING							
9		NO FREE GROUNDWATER							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-15

EXPLORATORY TEST PIT NO. TP-9

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1370.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand with clay, dark gray	Qcol		[Cross-hatched pattern]		16.4		
2	[X pattern]	Puente Formation (Tp), well-bedded, thickly-bedded, cemented to friable where weathered Bedding - N74W/78NE Bedding - N65W/66 NE	Bedrock						
3	[X pattern]								
4	[X pattern]								
5		END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0'							
7		NO FILL, SLIGHT CAVING							
8		NO FREE GROUNDWATER							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT. 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-16

EXPLORATORY TEST PIT NO. TP-10

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

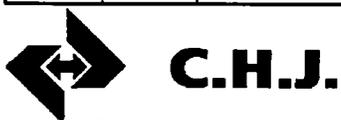
Surface Elevation(ft): 1326.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand with clay, fine, siltstone fragments to 3", gray	Qcol		[Cross-hatched pattern]		23.7		
2	[X pattern]	Puente Formation (Tp), bedded to massive, weathered to cemented tight Bedding - N70W/65SW	Bedrock						
3	[X pattern]								
4	[X pattern]								
5	[X pattern]	END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-17

EXPLORATORY TEST PIT NO. TP-11

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1332.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand, fine with clay and siltstone fragments, light yellow brown	Qcol		[Hatched pattern]		18.5		
2	[Cross-hatched pattern]	Puente Formation (Tp), well-bedded, tight, weathered to clayey silt, locally orange brown, oxidation on surface/fractures Bedding - N60W/9NE	Bedrock						
3	[Cross-hatched pattern]								
4	[Cross-hatched pattern]	END OF TEST PIT							
5		NO REFUSAL, BEDROCK AT 1.5' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-18

EXPLORATORY TEST PIT NO. TP-12

Date Excavated: 6/30/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

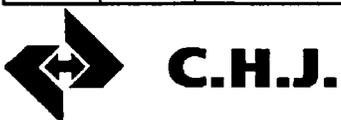
Surface Elevation(ft): 1347.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		Glendora Volcanics (Tgv), weathered blocky, recovered as (SM) Silty Sand matrix (15 percent) and blocky rounded cobbles to 6" in size. Hard, fractured (random pervasive) MnO ₂ coatings on fracture faces	Bedrock			20.4			
2									
3									
4									
5	END OF TEST PIT REFUSAL AT 4.0', BEDROCK AT SURFACE NO FILL, NO CAVING NO FREE GROUNDWATER								
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-19

EXPLORATORY TEST PIT NO. TP-13

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

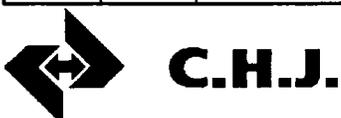
Surface Elevation(ft): 1262.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SC) Clayey Sand, fine to medium, dark gray	Qcol				14.4		
2									
3		(SM) Silty Sand with clay, fine to medium, clay coatings on ped faces, few gravel to 2", light gray brown					14.1		
4									
5									
6									
7		Glendora Volcanics (Tgv), hard, gray	Bedrock						
8		END OF TEST PIT	Refusal						
9		REFUSAL AT 8.0', BEDROCK AT 7.0'							
10		NO FILL, NO CAVING,							
11		NO FREE GROUNDWATER							
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-20

EXPLORATORY TEST PIT NO. TP-14

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

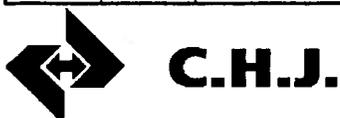
Surface Elevation(ft): 1245.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium with angular cobbles to 8", gray brown	Qcol		7.1				
2									
3									
4		(GWS) Sandy Gravel with cobbles and boulders to 12", fine to medium, sand, brown							
5									
6									
7									
8									
9									
10		Glendora Volcanics (Tgv), weathered, returns as (SM) Silty Sand, fine to medium with cobbles and boulders, pink gray	Bedrock						
11		END OF TEST PIT							
12		NO REFUSAL, BEDROCK AT 10.0'							
13		NO FILL, MODERATE CAVING							
14		NO FREE GROUNDWATER							
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-21

EXPLORATORY TEST PIT NO. TP-15

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1243.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium with clay, gray brown	Qcol		6.1				
2									
3									
4		(SM) Silty Sand, fine to medium with angular cobbles to 4", light gray	Qdf		12.9				
5									
6									
7		END OF TEST PIT	Refusal						
8		REFUSAL AT 6.0', NO BEDROCK NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-22

EXPLORATORY TEST PIT NO. TP-16

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1259.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS	
				DENSITY	BULK					
1		(SM) Silty Sand with clay, fine to medium, gray brown	Qcol				6.3			
2										
3										
4		(SM) Silty Sand, fine to coarse with gravel and cobbles to 6", light gray brown					14.6			
5										
6										
7										
8										
9				END OF TEST PIT	Refusal					
10	REFUSAL AT 9.0', NO BEDROCK NO FILL, SLIGHT CAVING NO FREE GROUNDWATER									
11										
12										
13										
14										
15										
16										
17										
18										
19										

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-23

EXPLORATORY TEST PIT NO. TP-17

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1270.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand with clay, fine to medium, stiff, gray brown	Qcol				8.9		
2		Glendora Volcanics (Tgv), blocky fracture, pink gray	Bedrock				11.5		
3									
4									
5									
6									
7									
8									
9		END OF TEST PIT	Refusal						
10		REFUSAL AT 9.0', BEDROCK AT 2.0'							
11		NO FILL, SLIGHT CAVING,							
12		NO FREE GROUNDWATER							
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-24

EXPLORATORY TEST PIT NO. TP-18

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1311.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(CL) Sandy Clay, fine to medium sand, very stiff, dark gray	Qcol				21.1		
2									
3		(SM) Silty Sand, fine to coarse with angular gravel and cobbles to 5", some clay, very tight, yellow gray, weathered Glendora Volcanics (Tgv)					19.8		DS, MDC
4									
5									
6									
7									
8									
9									
10		END OF TEST PIT	Refusal						
11		REFUSAL AT 10.0', BEDROCK AT 10.0'							
12		NO FILL, SLIGHT CAVING							
13		NO FREE GROUNDWATER							
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-25

EXPLORATORY TEST PIT NO. TP-19

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1337.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(CL) Sandy Clay, fine to medium, very stiff, dark gray	Qcol		18.2				
2		Glendora Volcanics (Tgv), very tight fractures along random joints, MnO ₂ coatings on surfaces and clay films, returns as (SM) Silty Sand, fine to coarse with angular cobbles/boulders to 10"	Bedrock						
3									
4									
5		END OF TEST PIT	Refusal						
6		REFUSAL AT 4.5', BEDROCK AT 1.5'							
7		NO FILL, SLIGHT CAVING							
8		NO FREE GROUNDWATE							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-26

EXPLORATORY TEST PIT NO. TP-20

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1303.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(CL) Sandy Clay, fine to medium, gray brown	Qool						
		Glendora Volcanics (Tgv), hard, fractures with difficulty on random and conchoidal faces	Bedrock						
2		END OF TEST PIT	Refusal						
3		REFUSAL AT 1.5', BEDROCK AT 0.5'							
4		NO FILL, NO CAVING							
5		NO FREE GROUNDWATER							
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-27

EXPLORATORY TEST PIT NO. TP-21

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1286.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Diagonal Hatching]	(CL) Sandy Clay, fine to medium, stiff, dark gray	Qcol		[Cross-hatching]		17.3		
2									
3									
4	[Dotted Pattern]	Glendora Volcanics (Tgv), weathered, recovered as (SM) Silty Sand, fine to coarse, light gray brown	Bedrock		[Cross-hatching]		19.8		
5									
6									
7									
8									
9	[Dotted Pattern]	Glendora Volcanics (Tgv), hard, gray pink							
10									
11									
12		END OF TEST PIT							
13		NO REFUSAL, BEDROCK AT 9.0'							
14		NO FILL, NO CAVING							
15		NO FREE GROUNDWATER							
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-28

EXPLORATORY TEST PIT NO. TP-22

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1327.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(CL) Sandy Clay, fine to medium, very stiff, dark gray	Qool						
2									
3									
4									
5									
6									
7		(SM) Silty Sand, fine to medium					12.4		
8									
9									
10									
11									
12		Glendora Volcanics (Tgv), hard, tight, gray	Bedrock						
13									
14									
15	END OF TEST PIT								
16	NO REFUSAL, BEDROCK AT 12.0'								
17	NO FILL, NO CAVING								
18	NO FREE GROUNDWATER								
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-29

EXPLORATORY TEST PIT NO. TP-23

Date Excavated: 7/1/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

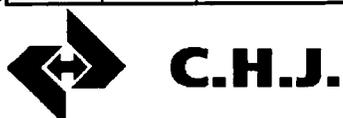
Surface Elevation(ft): 1306.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS	
				DENSITY	BULK					
1		(SC) Clayey Sand, fine to medium, gray brown	Qcol							
2										
3										
4		(SM) Silty Sand with clay, fine to medium, gravel to 1", clay films on ped faces, cumulic soil profile	Bedrock				13.2			
5										
6										
7										
8										
9		Glendora Volcanics (Tgv), hard, locally weathered, light gray								
10		END OF TEST PIT								
11		NO REFUSAL, NO FILL								
12		BEDROCK AT 8.5', NO CAVING								
13		NO FREE GROUNDWATER								
14										
15										
16										
17										
18										
19										

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-30

EXPLORATORY TEST PIT NO. TP-24

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

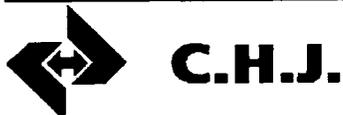
Surface Elevation(ft): 1266.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand with clay, fine to medium with coarse, mottled brown, dark gray	Fill		[Cross-hatched]		15.8		
2	[Diagonal lines]	(SC) Clayey Sand, fine to medium, dark brown	Qool		[Cross-hatched]		25.1		
3	[Diagonal lines]								
4	[Diagonal lines]								
5	[Diagonal lines]								
6	[Diagonal lines]	(CL) Sandy Clay, fine to medium, stiff, thick pedogenic clay films on gravel clasts, green gray			[Cross-hatched]		32.7		
7	[Diagonal lines]								
8	[Diagonal lines]	(SP) Sand, fine to coarse with clay, oxidized clasts with clay films, rounded gravel, volcanic lithologies, brown orange	Qoa		[Cross-hatched]		22.7		
9	[Stippled]								
10	[Stippled]								
11	[Stippled]								
12	[Stippled]								
13	[Stippled]	END OF TEST PIT							
14		NO REFUSAL, NO BEDROCK							
15		FILL TO 1.3', SLIGHT CAVING							
16		NO FREE GROUNDWATER							
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-31

EXPLORATORY TEST PIT NO. TP-25

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1261.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SC) Clayey Sand, fine to medium, stiff, dessication fissure 1" wide to 3' below ground surface, dark brown	Qcol				19.5		
2									
3		(CL) Sandy Clay, fine to medium, stiff with siltstone and volcanic clasts to 1", dark brown				25.8			
4									
5									
6									
7									
8		(CL) Sandy Clay, fine to medium, stiff, mottled dark brown				24.7			
9									
10									
11									
12									
13									
14									
15				END OF TEST PIT					
16		NO REFUSAL, NO BEDROCK NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-32

EXPLORATORY TEST PIT NO. TP-26

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1456.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand, fine to medium with siltstone clasts to 1/4", light brown	Qcol		[Cross-hatched pattern]		22.7		
2	[X pattern]	Puente Formation (Tp), highly weathered, bioturbated, friable, yellow brown	Bedrock						
3	[X pattern]								
4	[X pattern]								
5		Bedding - EW/28N less weathered			[Cross-hatched pattern]		19.5		
6									
7									
8									
9									
10		END OF TEST PIT							
11		NO REFUSAL, BEDROCK AT 2.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-33

EXPLORATORY TEST PIT NO. TP-27

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1438.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	XXXXXX	(SC) Clayey Sand, fine to medium, stiff, dark gray brown	Qcol				15.5		
2	XXXXXX								
3	XXXXXX								
4	XXXXXX	Puente Formation (Tp), weathered to clayey matrix with siltstone clasts	Bedrock						
5	XXXXXX	Bedding - N40E/38NW - N55E/45NW							
6		END OF TEST PIT							
7		NO REFUSAL, BEDROCK AT 3.0'							
8		NO FILL, NO CAVING							
9		NO FREE GROUNDWATER							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-34

EXPLORATORY TEST PIT NO. TP-28

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

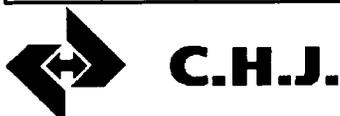
Surface Elevation(ft): 1448.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Diagonal Hatching]	(SC) Clayey Sand, fine to medium, dark gray brown	Qcol						
2	[X's]	Puente Formation (Tp), well bedded, weathered silicic shale with conchoidal fracture to thin-bedded siltstone, friable Bedding - EW/40N, Joint - N50E/59NW, Joint - N17W/85NE	Bedrock						
3	[X's]								
4	[X's]								
5	[X's]	END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0'							
7		NO FILL, SLIGHT CAVING							
8		NO FREE GROUNDWATER							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-35

EXPLORATORY TEST PIT NO. TP-29

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1452.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Diagonal Hatching]	(SC) Clayey Sand, fine to medium, stiff, dark gray brown	Qool						
2	[X Pattern]	Puente Formation (Tp), weathered, thinly bedded, locally silicic and brittle (cemented) Bedding - N80W/40NE	Bedrock						
3	[X Pattern]								
4	[X Pattern]								
5	[X Pattern]	END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0'							
7		NO FILL, SLIGHT CAVING							
8		NO FREE GROUNDWATER							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-36

EXPLORATORY TEST PIT NO. TP-30

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1437.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS	
				DENSITY	BULK					
1		Glendora Volcanics (Tgv), recovered as (SM) Silty Sand, fine to coarse with gravel to 2", weathered bedrock, red brown	Bedrock							
2										
3										
4			Less weathered, very hard Joint - N55E/75SE Joint - N50W/85NE							
5			END OF TEST PIT							
6		NO REFUSAL, NO BEDROCK NO FILL, NO CAVING NO FREE GROUNDWATER								
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-37

EXPLORATORY TEST PIT NO. TP-31

Date Excavated: 7/2/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1414.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to coarse with gravel to 3", asphalt/concrete debris to 10", light brown	Fill				6.1		
2									
3									
4									
5									
6									
7									
8									
9									
10		END OF TEST PIT	Refusal						
11		REFUSAL AT 9.0', NO BEDROCK FILL TO 9.0', MODERATE CAVING NO FREE GROUNDWATER							
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-38

EXPLORATORY TEST PIT NO. TP-32

Date Excavated: 7/9/09

Client: NJD, LTD.

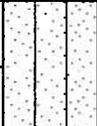
Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1225.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium, stiff, dark brown gray	Qcol						
2		(GW) Sandy Gravel, fine to coarse with cobbles to 8", boulders to 70", hard, cemented (difficult excavating)	Qdf						
3									
4									
5									
6									
7									
8		END OF TEST PIT							
9		NO REFUSAL, NO BEDROCK NO FILL, NO CAVING NO FREE GROUNDWATER							
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-39

EXPLORATORY TEST PIT NO. TP-33

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1232.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS		
				DENSITY	BULK						
1	[Graphic Log Pattern]	(SM) Silty Sand, fine to medium, dark gray	Qcol								
2											
3											
4											
5											
6											
7		[Graphic Log Pattern]		(SM) Silty Sand, fine to medium with gravel and cobbles to 6", friable, poorly cemented, light brown, yellow brown							
8	9		10		11	12	13	14	15	16	17
11		END OF TEST PIT									
12		NO REFUSAL, NO BEDROCK NO FILL, NO CAVING NO FREE GROUNDWATER									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-40

EXPLORATORY TEST PIT NO. TP-34

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1244.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to coarse, dark gray	Qcol						
2									
3									
4		(SM) Silty Sand, fine to medium, slightly cemented matrix-supported conglomerate, cobbles to 4", dark brown	Qdf						
5									
6		(GP) Gravel with cobbles, conglomerate, clast-supported with fine to coarse sand matrix	Qdf						
7									
8									
9									
10									
11									
12									
13		END OF TEST PIT							
14		NO REFUSAL, NO BEDROCK							
15		NO FILL, MODERATE CAVING							
16		NO FREE GROUNDWATER							
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-41

EXPLORATORY TEST PIT NO. TP-35

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1252.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium with cobbles ad gravel to 10", angular clasts, volcanic lith, boulders to 16", dark brown	Qdf						
2									
3									
4									
5									
6									
7									
8									
9									
10		END OF TEST PIT							
11		NO REFUSAL, NO BEDROCK NO FILL, HEAVY CAVING NO FREE GROUNDWATER							
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-42

EXPLORATORY TEST PIT NO. TP-36

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

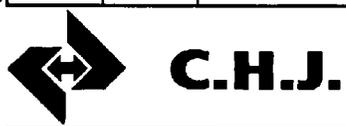
Surface Elevation(ft): 1242.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Stippled pattern]	(SM) Silty Sand, fine to medium, gravel to 2", dark gray black	Qcol						
2									
3									
4	[Stippled pattern]	(SM) Silty Sand, fine to medium, gravel to 1", light gray brown	Qdf						
5									
6									
7									
8	[Stippled pattern]	(GP) Gravel with cobbles in silty sand matrix, fine to coarse, cobbles to 10", angular-subrounded, light gray brown							
9									
10									
11									
12									
13		END OF TEST PIT							
14		NO REFUSAL, NO BEDROCK NO FILL, MODERATE CAVING NO FREE GROUNDWATER							
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-43

EXPLORATORY TEST PIT NO. TP-37

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1285.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1		(SM) Silty Sand, fine to medium, gravel to 3/4", gray brown	Qcol						
2		Glendora Volcanics (Tgv), flow breccia, pervasively fractured, very tight, slightly weathered, returns as angular blocky gravel/cobbles in sand, medium to coarse matrix, light gray	Bedrock						
3		END OF TEST PIT	Refusal						
4		REFUSAL AT 3.0', BEDROCK AT 1.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-44

EXPLORATORY TEST PIT NO. TP-38

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1266.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS	
				DENSITY	BULK					
1	[Stippled pattern]	(SM) Silty Sand, fine to medium with gravel to 1", gray brown	Qcol							
2										
3										
4										
5	[Diagonal hatched pattern]	Glendora Volcanics (Tgv), recovered as gravel and cobbles in (SM) Silty Sand, fine to medium matrix, very hard to excavate, gray	Bedrock							
6										
7		END OF TEST PIT	Refusal							
8		REFUSAL AT 6.5', BEDROCK AT 4.5' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER								
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										

TEST PIT - 20 FT 09355-3.GPJ CHJ.GDT 8/6/09



C.H.J.

TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-45

EXPLORATORY TEST PIT NO. TP-39

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1292.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand, fine to medium with clay, dark gray	Qcol						
2	[Cross-hatched pattern]	Puente Formation (Tp), well-bedded sandstone/siltstone, weathered, friable, white CaCo3 fillings to 3/4" thick along beds Bedding - N83W/24NE	Bedrock						
3	[Cross-hatched pattern]								
4	[Cross-hatched pattern]								
5		END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 2.0' NO FILL, SLIGHT CAVING NO FREE GROUNDWATER							
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT_09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-46

EXPLORATORY TEST PIT NO. TP-40

Date Excavated: 7/9/09

Client: NJD, LTD.

Equipment: New Holland 75B

Bucket Size: 24"

Surface Elevation(ft): 1286.0

Logged by: JSM

Station No.: N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		RELATIVE COMP. (%)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DENSITY	BULK				
1	[Dotted pattern]	(SM) Silty Sand, fine to medium with clay, dark brown	Qcol						
2	[Cross-hatched pattern]	Puente Formation (Tp), well bedded, weathered, friable, yellow brown gray	Bedrock						
3	[Cross-hatched pattern]	Bedding - N65E/30SE							
4	[Cross-hatched pattern]								
5		END OF TEST PIT							
6		NO REFUSAL, BEDROCK AT 1.5'							
7		NO FILL, SLIGHT CAVING							
8		NO FREE GROUNDWATER							
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

TEST PIT - 20 FT. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-47

EXPLORATORY BORING NO. BH-3

Date Drilled: 7/2/09

Client: NJD, LTD.

Equipment: 24" Bucket Auger Drill Rig

Driving Weight / Drop: Varies with Depth/12"

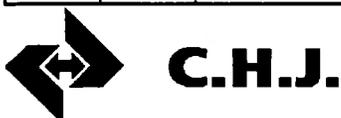
Surface Elevation(ft): 1316

Logged by: TAD

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		Glendora Volcanics (Tgv) recovered as (SM) Silty Sand, fine with gravel to 3", light gray brown 2': bedding - N12E/88NW 6': bedding - N15E/63SE 10': bedding - N70E/65NW	Bedrock	X		10.5			
10									
15			END OF BUCKET AUGER BORING PRACTICAL REFUSAL AT 14.0', BEDROCK AT 0.0' NO FILL, NO CAVING, NO FREE GROUNDWATER	Practical Refusal					
20									
25									
30									

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-50

EXPLORATORY BORING NO. BH-5

Date Drilled: 7/6/09

Client: NJD, LTD.

Equipment: 24" Bucket Auger Drill Rig

Driving Weight / Drop: Varies with Depth/12"

Surface Elevation(ft): 1420

Logged by: TAD

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		(SM) Silty Sand, fine with gravel to 3" and clay, slightly damp, red brown	Fill				12.9		AL, Cor., DS, Exp., MDC
			Bedrock						
10		Glendora Volcanics (Tgv) highly weathered							
		10': - Fractures - N37W/76NE							
15		15': - Fractures - N24W/62NE							
		16': - Fractures - N66E/61SE							
25		24': - Fractures - N36E/51NW							
		25': Fractures - N28W/42SW							
		26': Fractures - N56E/15SW							
30		END OF BUCKET AUGER BORING	Refusal						
		REFUSAL AT 30.0', BEDROCK AT 3.0' FILL TO 3.0', NO CAVING NO FREE GROUNDWATER							

BORING LOG - NO EQUIV & BLOW PER 6 IN. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-52

EXPLORATORY BORING NO. BH-6

Date Drilled: 7/7/09

Client: NJD, LTD.

Equipment: 24" Bucket Auger Drill Rig

Driving Weight / Drop: Varies with Depth/12"

Surface Elevation(ft): 1324

Logged by: TAD

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		Glendora Volcanics (Tgv), fresh 1': Fractures - N72E/39NW Fractures - N43W/62NE	Bedrock						
10		END OF BUCKET AUGER BORING REFUSAL AT 8.0', BEDROCK AT 0.0' NO FILL, NO CAVING NO FREE GROUNDWATER	Refusal						
15									
20									
25									
30									

BORING LOG - NO EQUIV & BLOW PER 6 IN. 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-53

EXPLORATORY BORING NO. BH-7

Date Drilled: 7/7/09

Client: NJD, LTD.

Equipment: 24" Bucket Auger Drill Rig

Driving Weight / Drop: Varies with Depth/12"

Surface Elevation(ft): 1365

Logged by: TAD

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	SAMPLES		BLOWS/6 IN.	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
				DRIVE	BULK				
5		Glendora Volcanics (Tgv), fresh 2': Fractures - NS/72E 5': Fractures - N57E/86NW Strike and Dip 6': Fractures - N86E/32NW Strike and Dip 7': Fractures - N46W/72NE	Bedrock						
10		10': Fractures - N22W/80SW							
15		15': Fractures - N88W/49NE							
20		END OF BUCKET AUGER BORING PRACTICAL REFUSAL AT 19.0', BEDROCK AT 0.0' NO FILL, NO CAVING, NO FREE GROUNDWATER	Practical Refusal						
25									
30									

BORING LOG - NO EQUIV & BLOW PER 6 IN 09355-3.GPJ CHJ.GDT 8/6/09



TENTATIVE TRACT NO. 70583
SAN DIMAS, CALIFORNIA

Job No. Enclosure
09355-3 B-54