

Initial Study

166 Baypointe Parkway

Planned Development (PD) Rezoning (PDC07-080)

March 14, 2008

CITY OF SAN JOSE

INTRODUCTION

The project site was included within the area covered by the North San Jose Development Policies Update Program Environmental Impact Report (hereinafter referred to as the North San Jose EIR), which evaluated the modification of plans and policies in order to encourage a greater intensity of development within the Rincon de los Esteros Redevelopment Area, approximately 4,987 acres located generally south of State Route 237, east of the Guadalupe River, north and northwest of Interstate 880, and west of Coyote Creek. Most of the Rincon area was designated Industrial Park on the City's General Plan. The North San Jose EIR addressed the impacts of developing approximately 26.7 million square feet of new industrial/office/R&D building space in the Rincon area beyond existing entitlements, with an increase of approximately 83,300 new employees. In addition, the North San Jose EIR addressed the development of up to 32,000 new dwelling units within the project area, for a population increase of approximately 56,640 persons.

The following environmental effects were evaluated at a General Plan level in the North San Jose EIR:

- Land Use
- Transportation
- Air Quality
- Noise
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hydrology and Water Quality
- Hazardous Materials
- Utilities and Service Systems
- Energy
- Public Facilities and Services

The following were found to have Unavoidable Significant Impacts:

- Transportation
- Air Quality
- Noise

This Initial Study evaluates the project site at a Project level, as a specific development project is proposed.

CEQA Section 21093(b) states that environmental impact reports shall be tiered whenever feasible, as determined by the lead agency. "Tiering" refers to using the analysis of general matters contained in a broader environmental impact report (EIR) (such as one prepared for a general plan or policy statement) in subsequent EIRs or Initial Studies/Negative Declarations on narrower projects; and concentrating the later environmental review on the issues specific to the later project (CEQA Guidelines 15152[a]).

Tiering is appropriate when it helps a public agency to focus on issues at each level of environmental review and to avoid or eliminate duplicative analysis of environmental effects examined in previous EIRs (CEQA Section 21093[a]).

North San Jose is also a Redevelopment Project area. Section 15180 of the CEQA Guidelines states all public and private activities pursuant to a redevelopment plan are considered a single project. An EIR on a redevelopment plan is to be treated as a program EIR and no subsequent EIR is required for individual components of the redevelopment plan unless otherwise required by Section 15162 or 15163.

In accordance with CEQA Sections 21093(a) and 21093(b) and CEQA Guidelines Section 15152(a), this Initial Study tiers off the North San Jose EIR (State Clearinghouse No. 2004102067) certified by the City Council in June, 2005.

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I. PROJECT DESCRIPTION

A. GENERAL INFORMATION

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Planning, Building and Code Enforcement
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john.baty@sanjoseca.gov

Applicant:

Trammell Crow Residential
1810 Gateway Drive, Suite 240
San Mateo, CA 94404
650-293-3560; (fax) 650-227-1531
Attn: Brian Pianca
bpianca@tcresidential.com

Property Owner:

William and Leila Cilker
1631 Willow St.
Suite 225
San Jose, CA 95125

Environmental Consultant:

Mindigo & Associates
1984 The Alameda
San Jose, CA 95126
408-554-6531, (fax) 408-554-6577
rmindigo@aol.com

Name of Project:

166 Baypointe Parkway

Location and Address:

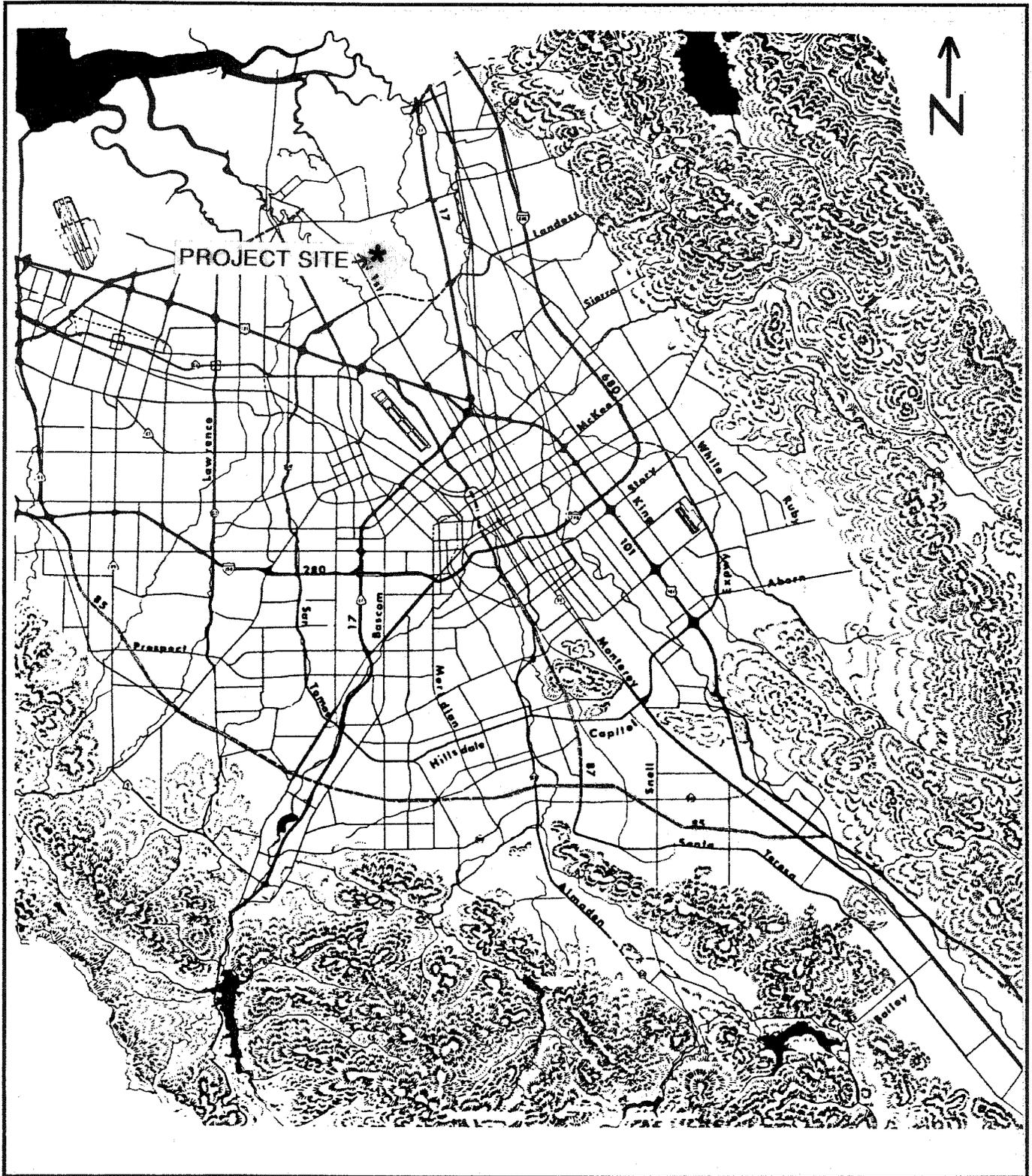
Northeasterly quadrant of Tasman Drive and
Baypointe Parkway (166 Baypointe Parkway)

Brief Description of Project:

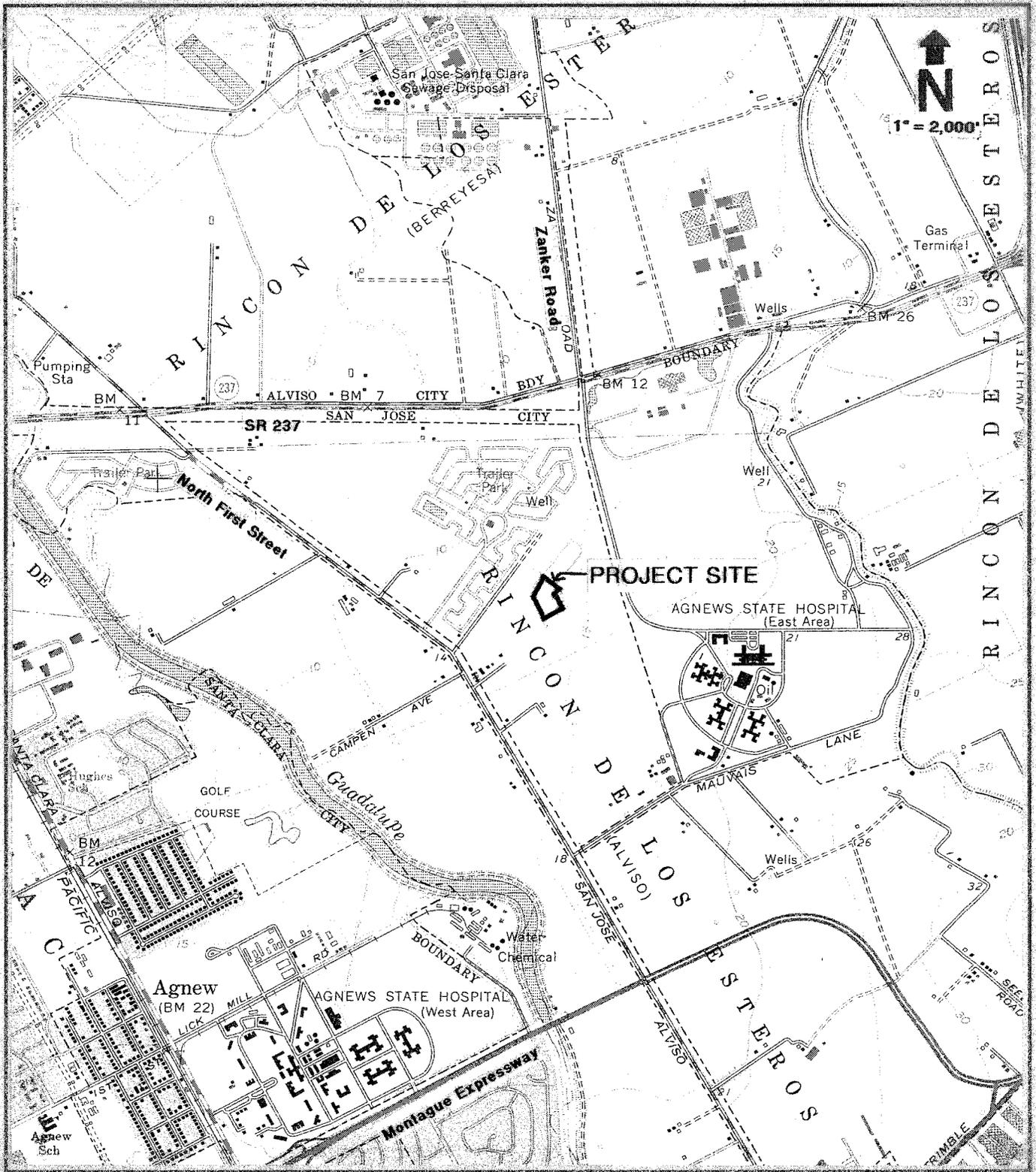
A Planned Development (PD) Zoning
application and subsequent permits for a mixed
use development consisting of up to 239
residential units and up to 6,000 square feet of
retail space on approximately 2.86 gross and net
acres

Assessor's Parcel Number(s):

097-07-072

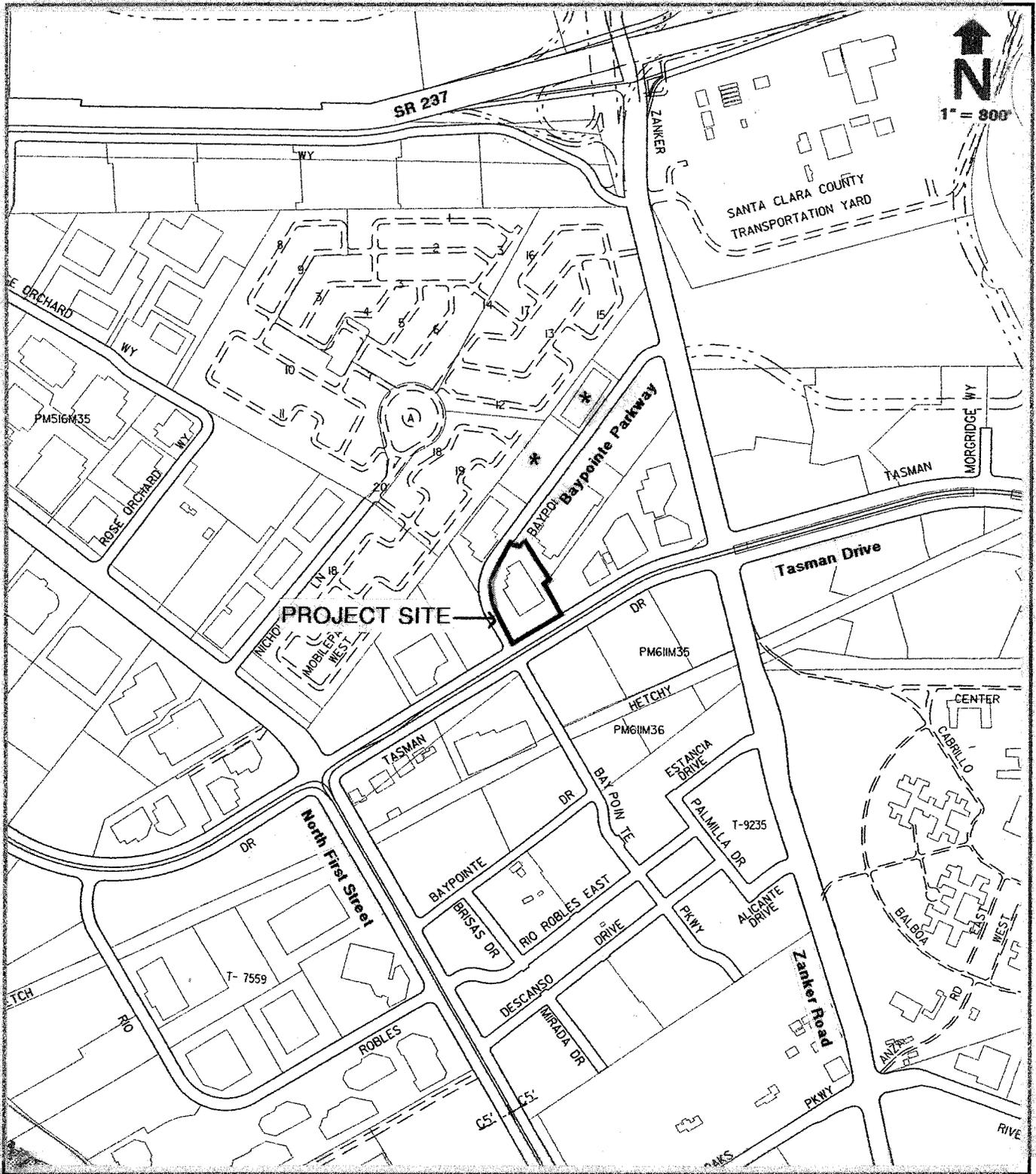


Santa Clara Valley Map
Figure 1

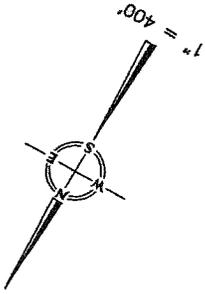


Source: Milpitas Quadrangle (1961, photorevised 1980)

USGS Map
Figure 2

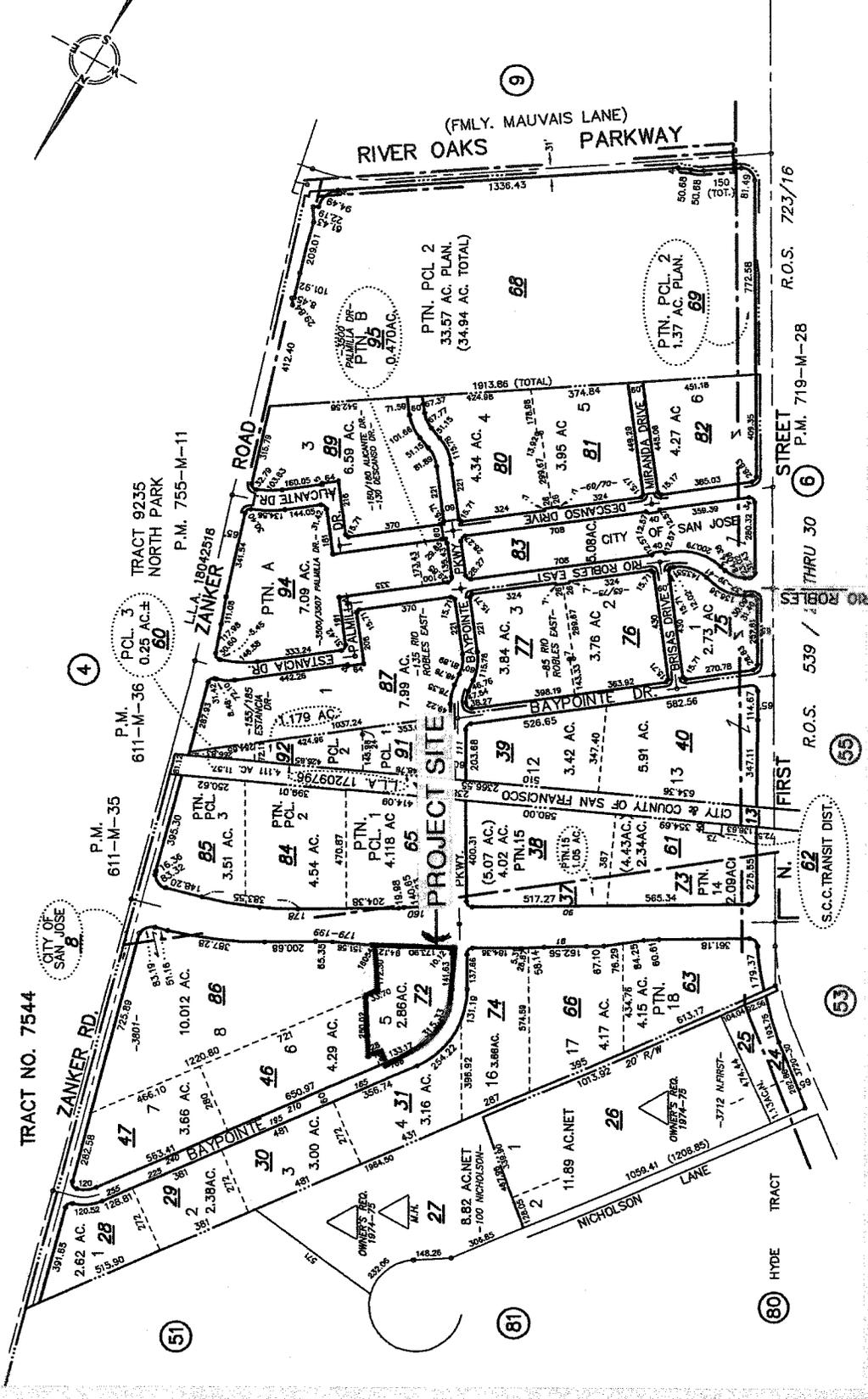


Vicinity Map
Figure 3

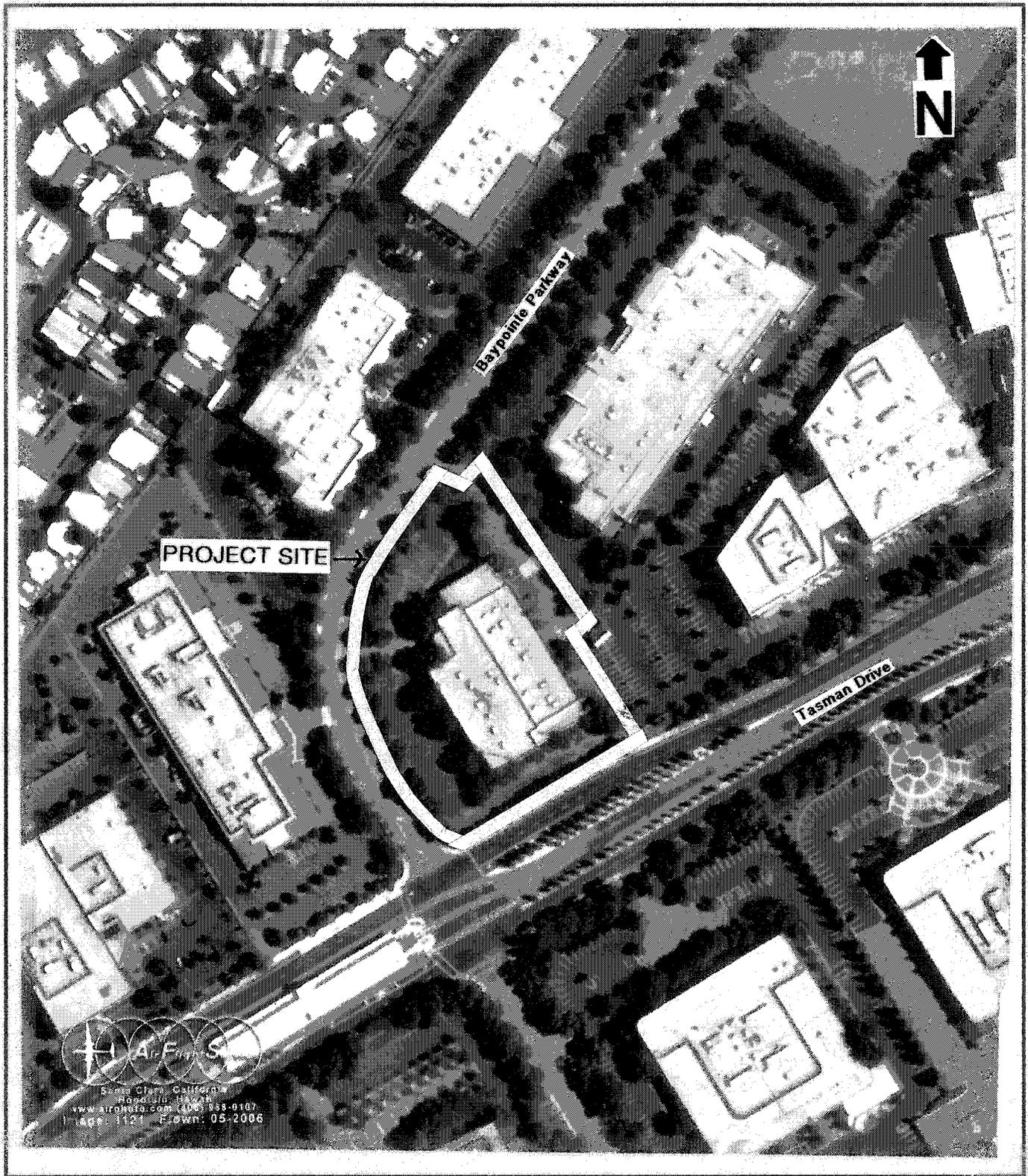


OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA

TRACT NO. 7544



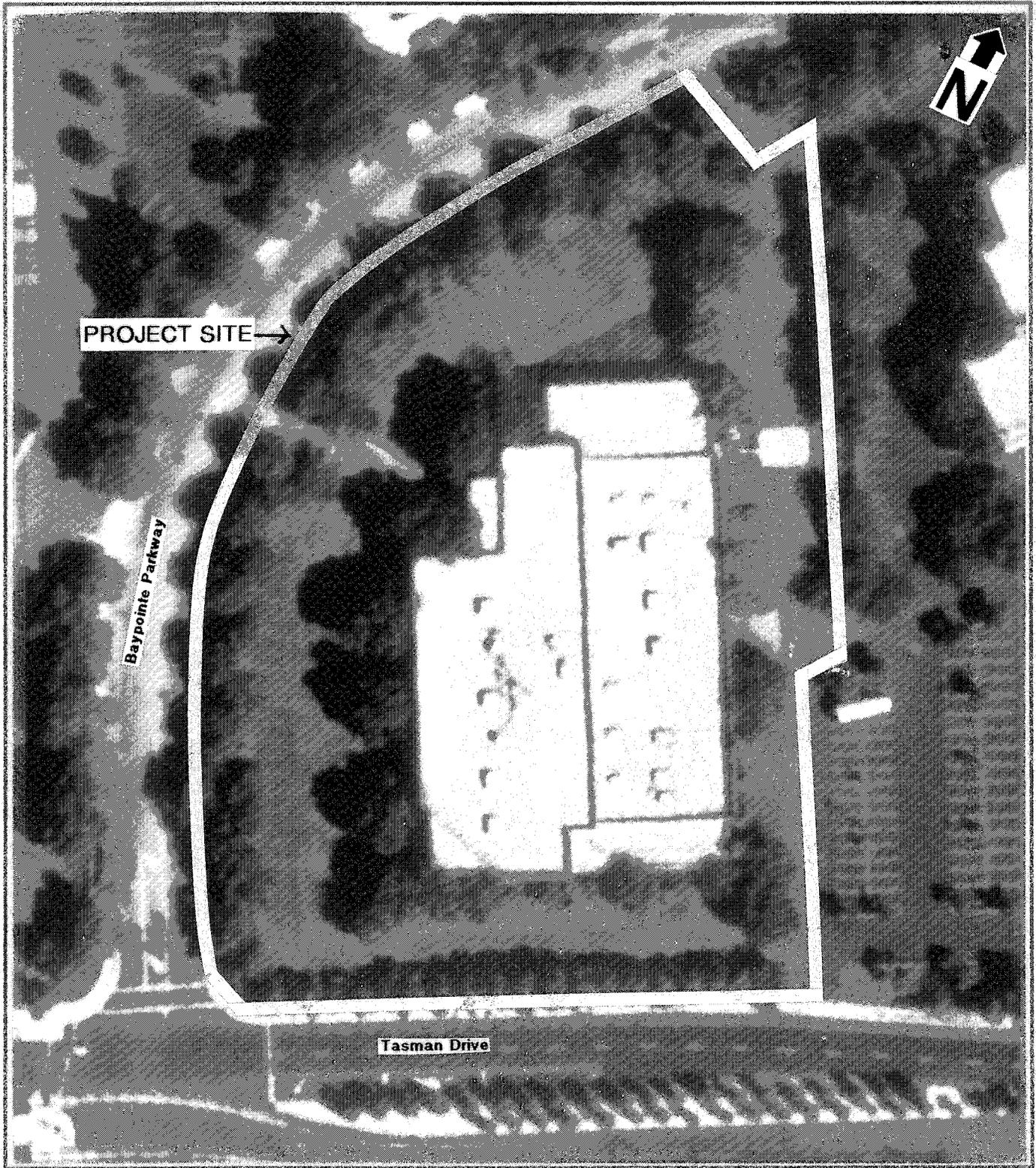
Assessor's Parcels
Figure 4



Aerial Photo of the Vicinity

May, 2006

Figure 5



Aerial Photo of the Site
May, 2006

Figure 6



Viewing northerly from the southwesterly corner on Tasman Drive and Baypointe Parkway



Viewing easterly from the westerly boundary on Baypointe Parkway



Viewing southerly from the northerly corner on Baypointe Parkway



Viewing westerly from the easterly corner on Tasman Drive

B. PROJECT OBJECTIVE

The objective of this project is to construct a high quality, mixed use development of retail and high density residential dwelling units on the site, in accordance with the goals and policies of the City of San Jose.

C. DESCRIPTION

The project is a **Planned Development (PD) Zoning** application from the IP, Industrial Park Zoning District, to the A(PD), Planned Development Zoning District, to allow the construction of residential units, retail space and subsequent subdivision, located on the northeasterly quadrant of Tasman Drive and Baypointe Parkway (166 Baypointe Parkway). The project is a mixed use development consisting of high density residential dwelling units and retail commercial space. The building is proposed to be six floors. Parking is to be provided in the central portions of the first and second floors, with retail and townhouse residential space around the perimeter. Additional residential space is proposed on the third through sixth floors. The Conceptual Site Plan provides for 39 multi-family attached (townhouse) residential units, 200 multi-family residential units, and up to 6,000 square feet of retail space. The Project Data table and reduced copies of the project plans follow, Figures 9 through 18. Full size copies are available for review at the City of San Jose Planning Division.

Residential

The individual residential units are planned to be one-story flats and two-story townhouse lofts. The townhouse units are planned for the first/second floor, while the flats are planned for the third through sixth floors. Each unit has a private balcony. There are five different unit plans on the Conceptual Site Plan, as follows:

Plan	No. of Stories	No. of Bedrooms	No. of Baths	Square Footage	No. of Units
TH1	2	1	1.5	760	39
1A	1	1	1	750	96
2A	1	2	2	1,015	84
2B	1	2	2	1,015	12
2C	1	2	2	1,015	8
					<u>239</u>

Retail Commercial

The proposed maximum 6,000-square-foot retail commercial component of the project is located on the ground floor of the building fronting Tasman Drive.

Landscaping

The landscaping proposed is shown in schematic form on the Conceptual Landscape Plan, Figure 18. Street trees, specimen trees, shrubs, vines, lawn and groundcover are planned around the project perimeter and within the central courtyard on the third floor podium. Recycled water will be used for all landscape irrigation.

Recreation Facilities

Recreation facilities planned with the project include a swimming pool and spa, sun deck, and raised fire pit seating area in the central courtyard on the third floor podium, as shown on the Conceptual Landscape Plan, Figure 18; and a fitness center, multi-purpose club and media room on the ground floor of the building along Tasman Drive.

Access

Access to the project is from a full-access driveway on Baypointe Parkway and a right-turn-only driveway on Tasman Drive.

Parking

Parking for the project is provided within the first and second floors of the building, as shown on the Ground Floor and 2nd Floor plans, Figures 11 and 12. Parking spaces are listed in the Project Data table.

Exterior Lighting

Standard electroliers using low pressure sodium vapor lights in accordance with the City's Outdoor Lighting on Private Developments Policy are already provided along Tasman Drive and Baypointe Parkway. Normal exterior household and commercial lighting is to be provided with the residences and retail establishments. All exterior lighting is subject to the City's Outdoor Lighting Policy (4-3).

Utilities

All utilities required to serve the project, including sanitary sewer, wastewater treatment, water supply, storm drainage, natural gas, electricity and telephone, as further described in the following Utilities and Service Systems section, would be provided with the project. All of the utilities within the project are to be underground.

Demolition

The project proposes the demolition of the onsite structure. A discussion of potential asbestos-containing materials (ACM) and/or lead based paint (LBP) hazards is included in the following Hazards and Hazardous Materials section.

Hazardous Materials

Hazardous materials other than those for normal household and landscaping use will not be used as a part of the operation of any of the establishments on the project site.

Grading

Grading planned for the project is shown on the following Conceptual Grading and Drainage Plan, Figure 16. The final grading for the project is to be designed to conform to the natural ground as closely as possible while also providing for flood protection for the project. The amount of grading planned is the minimum required to raise the finished floor one foot above the projected flood level. In addition to the building pad grading, trenching is required for the underground utilities and sewer system. As the proposed building will be at approximately the same grade as the existing building, no significant import or export of material will be required.

Water Quality Treatment

In accordance with the Santa Clara Valley Urban Runoff Pollution Prevention Program NPDES MS4 permit and City Council Policies 6-29 and 8-14, the project includes tree credits, turf block with interlocking pavers along the paseo, disconnected roof drains, and media filters.

Tree Removal

There are 96 existing trees onsite, all of which are to be removed, as further discussed in the following Biological Resources section.

Public Improvements

Tasman Drive and Baypointe Parkway are already fully dedicated and improved. There are no public roadway improvements with this project. Public improvements include 10-foot sidewalks and tree wells, requiring a 3-foot easement, along Baypointe Parkway; 12-foot sidewalks and tree wells, requiring a 6-foot easement, along Tasman Drive; and new driveway openings at the approximate location of existing driveways.

Public Land Reservations

There are no public land reservations with this project; however, the project will contribute toward a new proposed park on the north side of Baypointe Parkway in conformance with the City’s Park Impact Ordinance (PIO) and Parkland Dedication Ordinance (PDO) (Municipal Code Chapters 14.25 and 19.38, respectively). The location of the proposed park is shown on the preceding Vicinity Map, Figure 3.

Other Related Permits

In addition to the proposed **Planned Development (PD) Zoning**, other related permits to be obtained from the City of San Jose and/or any other public agency approvals required for this project by other local, State or Federal agencies are as follows:

Agency	Permit / Approval
City of San Jose	PD Permit, Tentative Map, Final Map, Demolition Permit, Grading Permit, Building Permit(s)

Community Meeting

A community meeting to discuss the proposed project with neighbors was held on February 25, 2008. No issues were raised by the attending community members.

Table 1. Project Data

Category	Figure	
Gross and Net Acreage	2.86	
Building Height (<i>feet</i>)	68	
Parking Spaces on the Conceptual Site Plan		
Residential Standard	122	
Residential Tandem	126	
Retail / Guest	<u>24</u>	
Total	272	
Coverage Factors	Acres	Percent
Building	2.04	71
Landscaping	0.04	2
Hardscape	0.66	23
Private Vehicular Area	<u>0.12</u>	<u>4</u>
Total	2.86	100
Impervious Areas	Square Feet	Percent
Existing	115,554	93
Project	122,662	99
Start/Completion Dates	TBD / Winter, 2011	
Residential		
Number of Units on the Conceptual Site Plan		
One bedroom townhouses	39	
One bedroom flats	96	
Two bedroom flats	<u>104</u>	
Total	239	
Estimated Population *	735	
Estimated Wastewater (<i>gallons/day</i>)	46,000	
Estimated Water Demand (<i>gallons/day</i>)	54,000	
Estimated Solid Waste (<i>tons/year</i>)	200	
Density (<i>units/gross and net acre</i>)	239 / 2.86 = 83.6	
Commercial/Retail		
Building Area (<i>square feet</i>)	up to 6,000	
Estimated Number of Employees**	15	
Estimated Wastewater (<i>gallons/day</i>)	510	
Estimated Water Demand (<i>gallons/day</i>)	600	
Estimated Solid Waste (<i>tons/year</i>)	3	

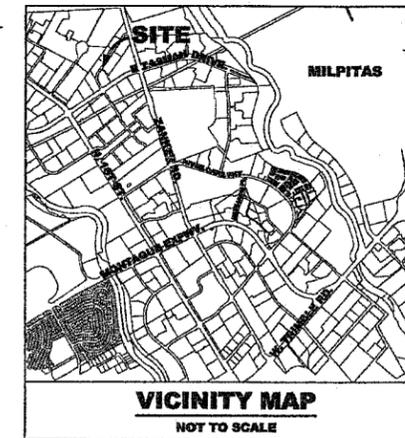
* Based on 2000 Census average of 3.06 persons per SFA dwelling unit.

** Based on 2.5 employees per 1,000 square feet of retail space.

LENGTH TABLE		
NO.	BEARING	LENGTH
1	N65°08'04"E	10.12
2	S53°36'26"E	50.00
3	N36°23'34"E	28.00
4	S36°23'34"W	33.70

CURVE TABLE			
NO.	RADIUS	DELTA	LENGTH
1	23.00'	90°01'09"	36.14'

DEVELOPMENT STANDARDS
TO BE DETERMINED



HMH
ENGINEERS
San Jose Gilroy
(408) 487-2200 (408) 846-0707
www.hmh-engineers.com

NOT FOR CONSTRUCTION

TCR
TRANSMILL CROW RESIDENTIAL
1810 GATEWAY DRIVE, SUITE 240
SAN MATEO, CA 94404

LEGEND

- PROJECT BOUNDARY
- ADJACENT LOT LINE
- - - PROPOSED EASEMENT
- - - EXISTING EASEMENT

PERMITTED USES

HATCH PATTERN	LAND USE	AREA	PERCENT
[Hatch Pattern]	ATTACHED RESIDENTIAL UNITS, RETAIL SPACE, PUBLIC PEDESTRIAN PASEO, PRIVATE DRIVE	2.86 AC	100%

DENSITY

239 ATTACHED DWELLING UNITS
2.86 ACRES (NET) = 83.57 DU/AC

GENERAL DEVELOPMENT
PLAN - EXHIBIT C
PDC07-080
166 BAYPOINTE PARKWAY

NO.	DATE	DESCRIPTION
1	3/10/2008	PER CITY COMMENTS
2	12/14/2007	PER CITY COMMENTS

PROJECT NO: 365400
CAD DWG FILE: 365400.LIN
DESIGNED BY: ZJUBOVAL
DRAWN BY: ML
CHECKED BY: MK
DATE: OCTOBER 4, 2007
SCALE: 1"=40'
© HMH ENGINEERS

LAND USE PLAN

2.0
OF 18

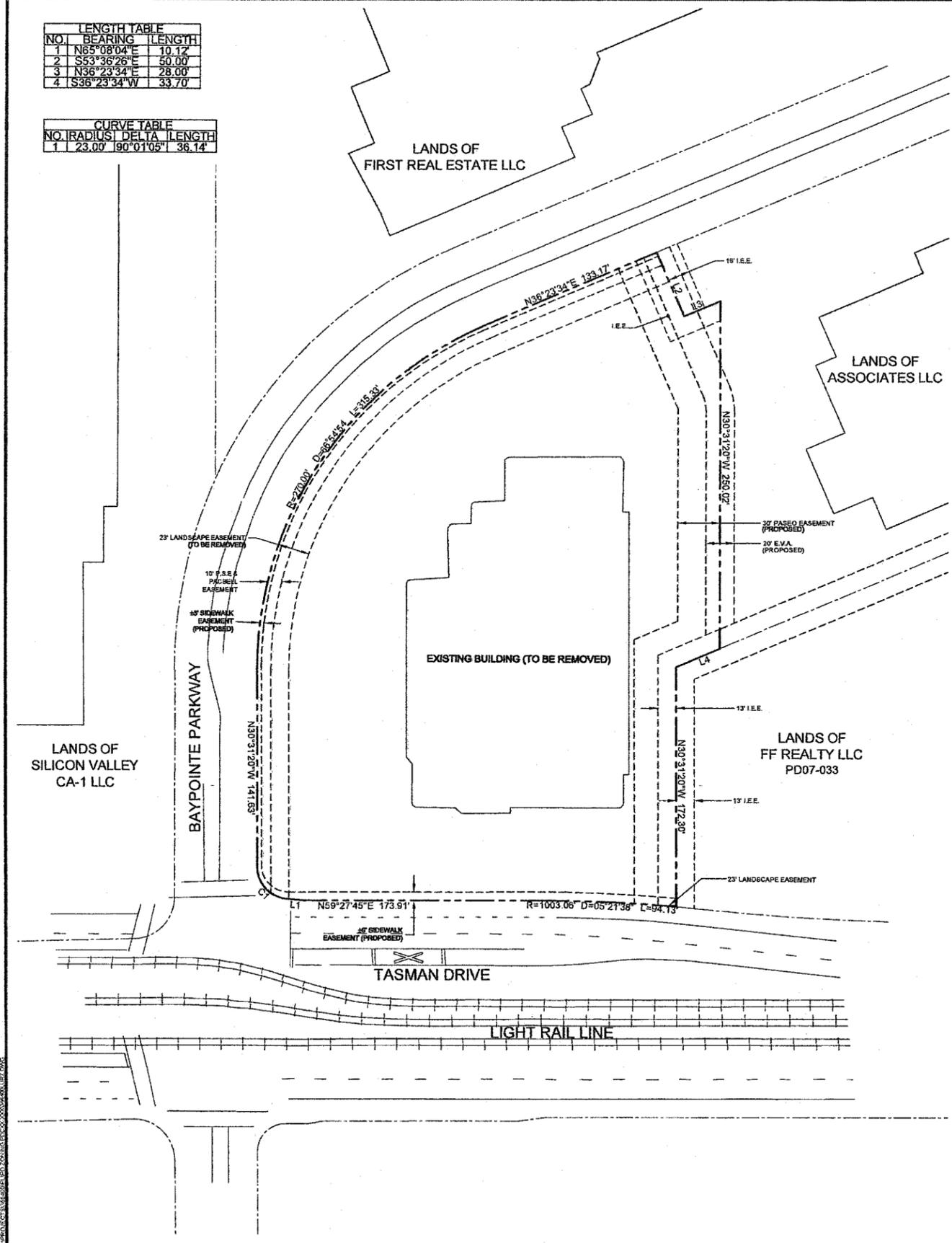
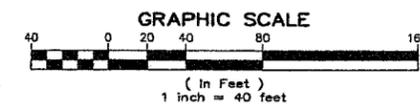


Figure 9

MBH

2470 Mariner Sq. Loop
Alameda, CA 94501
Tel: 510 865 8683
Fax: 510 865 1811

TCR
TRAMHELL CHOW RESIDENTIAL

CONCEPTUAL SITE PLAN

166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

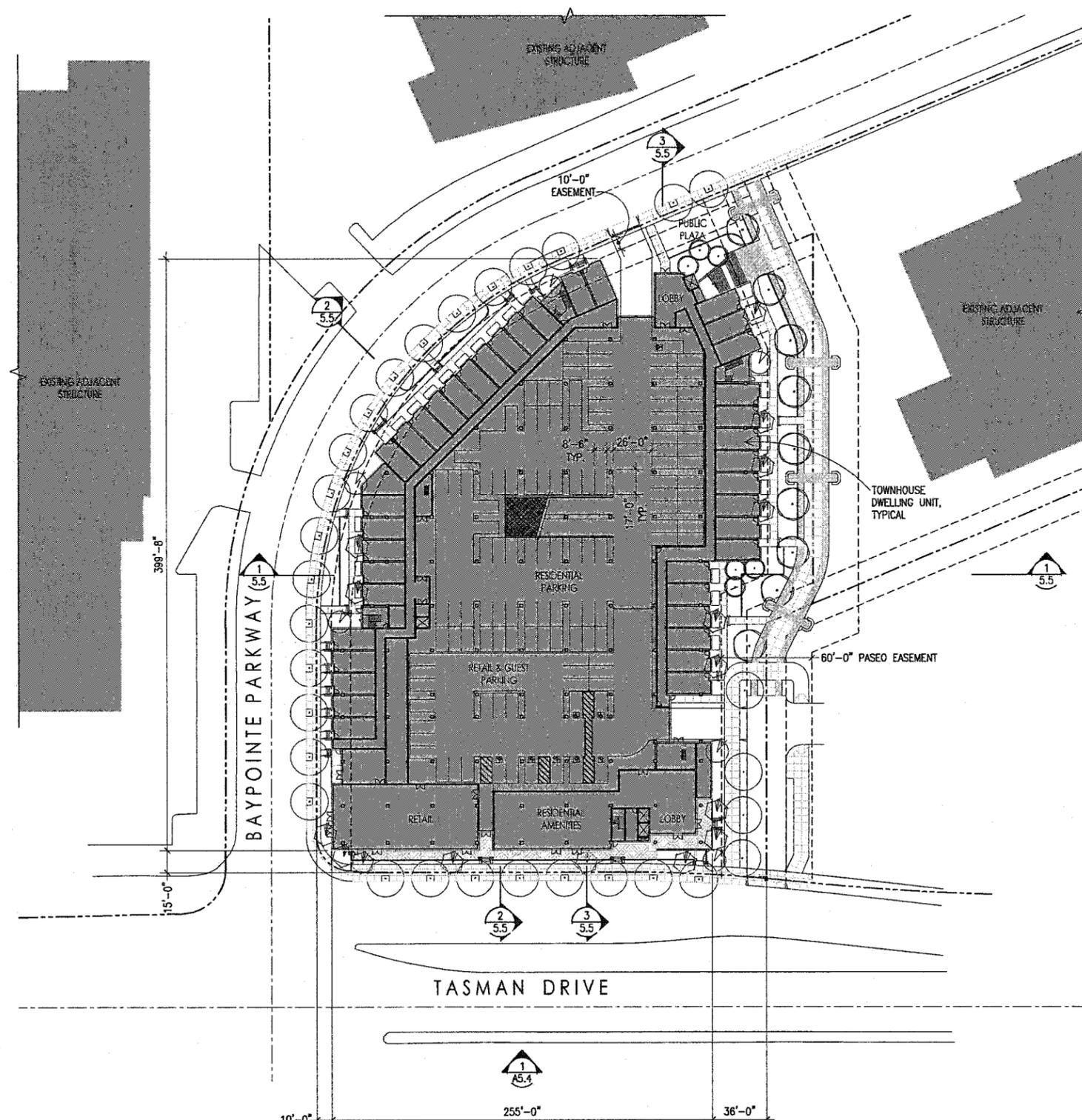
GENERAL DEVELOPMENT PLAN
EXHIBIT-C
PDC07-080

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DATE	ISSUE
05 OCT 07	PD ZONING
10 MAR 08	PD ZONING COMMENTS

Project No. 43094
Scale 1"=40'-0"
Drawing Title CONCEPTUAL SITE PLAN

Sheet No. 3.0



PROJECT SUMMARY:

ACRES OF SUBJECT PROPERTY

SITE AREA	ACRES
	2.06

DWELLING UNITS:

FLOORS	1	2	TOWNHOUSE	TOTAL
1			39	39
2				
3	24	26		50
4	24	26		50
5	24	26		50
6	24	26		50
TOTAL:	96	104	39	239
MIX:	40%	43%	17%	100%

DENSITY:

DWELLING UNITS / ACRE	83.6
-----------------------	------

FLOOR AREA (GROSS ENCLOSED):

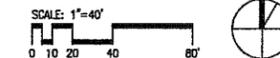
FLOORS	RESIDENTIAL	RETAIL	PARKING	TOTAL
1	25,920	6,000	30,460	62,380
2	21,000	-	55,240	76,240
3	61,430	-	-	61,430
4	61,430	-	-	61,430
5	61,430	-	-	61,430
6	61,430	-	-	61,430
TOTAL:	292,670	6,000	105,700	404,370

MINIMUM PARKING PROVIDED:

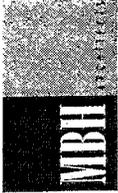
	RETAIL / GUEST		RESIDENTIAL		TOTAL
	STANDARD	TANDEM	STANDARD	TANDEM	
1st FLOOR	24	31	64	120	120
2nd FLOOR			91	62	153
TOTAL:	24	122	126	273	273

BUILDING CODE: (2007 C.B.C.)

CONSTRUCTION TYPE: TYPE V-A OR B-A OVER TYPE I PODIUM (TO BE DETERMINED)
 OCCUPANCY GROUP: R-2 / S-3 / A-2
 NUMBER OF STORIES: 4 STORIES OVER 2-STORY PODIUM, 6 TOTAL
 HEIGHT: UP TO 66'-0" FROM GRADE TO TOP OF PARAPET
 RESIDENTIAL USE BELOW PODIUM: AN ALTERNATE METHOD OF CONSTRUCTION WILL BE PROPOSED TO MITIGATE THIS CONDITION.



CONCEPTUAL SITE PLAN | 1



1000 KENNEDY BLVD
 SUITE 1000
 SAN JOSE, CA 95128
 TEL: 415.435.1000
 FAX: 415.435.1001



GROUND FLOOR PLAN

**166 BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA**

GENERAL DEVELOPMENT PLAN

EXHIBIT-C

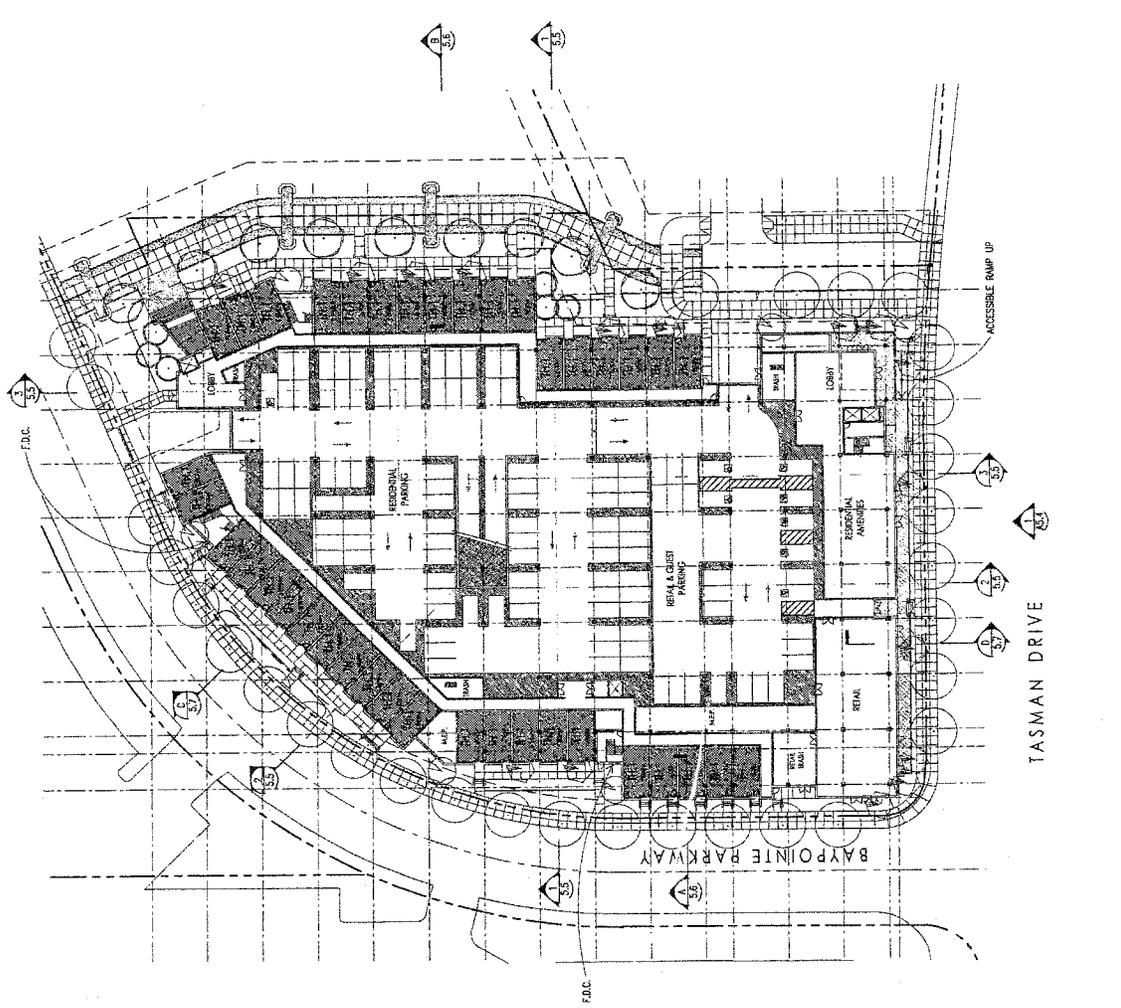
PG.007-080

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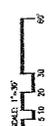
DATE: 08/11/2011

SCALE: 1/8" = 1'-0"

DATE: 08/11/2011



GROUND FLOOR PLAN | 1



51

Figure 11



314 Pointe St, Los
 Angeles, CA 90047
 Tel: 310.440.1100
 Fax: 310.440.1111



3rd, 4th, 5th, 6th FLOOR PLAN

**166 BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA**

**GENERAL DEVELOPMENT PLAN
 EXHIBIT C
 PDC07-060**

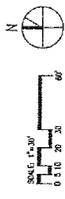
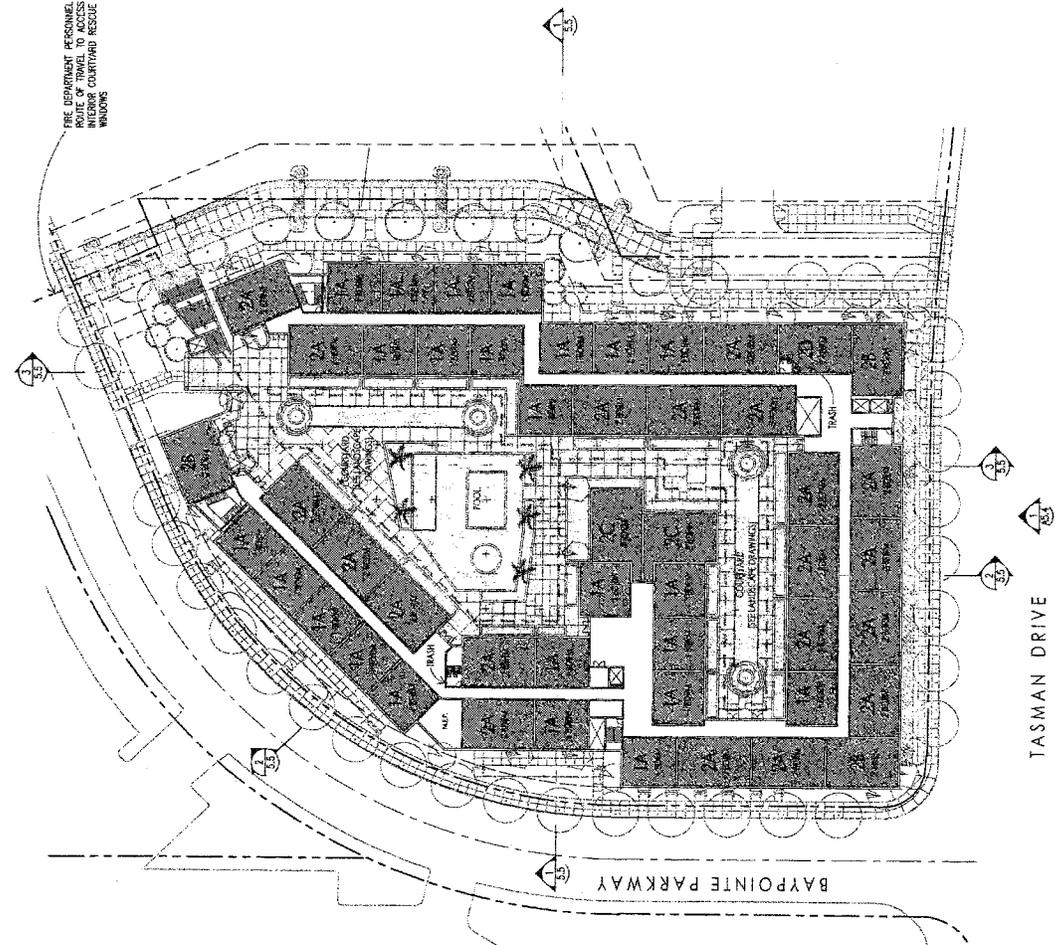
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DATE: 11/11/11
 BY: TCR
 02 OCT 07 PD ZONING
 14 DEC 07 PD ZONING COMMENTS

Project No. 43254
 Scale: 1"=30'-0"
 Drawing Title: 3rd, 4th, 5th, 6th FLOOR PLAN



FIRE DEPARTMENT PERSONNEL
 ROUTE OF TRAVEL TO ACCESS
 COURTYARD RESCUE
 WINDOWS



3rd, 4th, 5th, 6th FLOOR PLAN | 1

Figure 13



333 RIVINGTON ST., 14th
 FLOOR, SAN FRANCISCO
 CA 94102
 TEL: 415.774.1000
 FAX: 415.774.1001



BUILDING SECTIONS

**166 BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA**

**GENERAL DEVELOPMENT PLAN
 EXHIBIT C**

PROJECT #80

THIS PLAN SHALL BE USED IN CONJUNCTION WITH THE GENERAL DEVELOPMENT PLAN AND THE ARCHITECTURAL PLAN. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS PLAN. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS PLAN.

DATE: 11/11/11

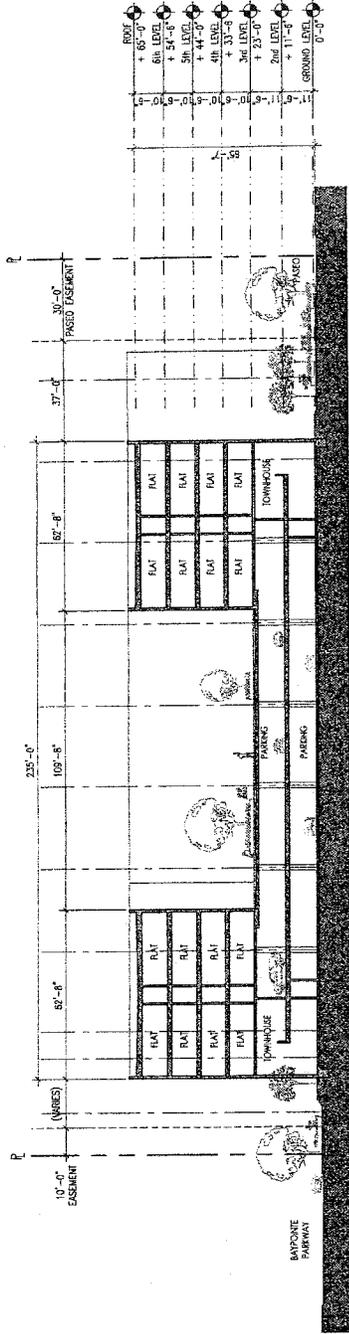
DESIGNED BY: PD ZONING

14. SEC. 07. PD ZONING COMMENTS

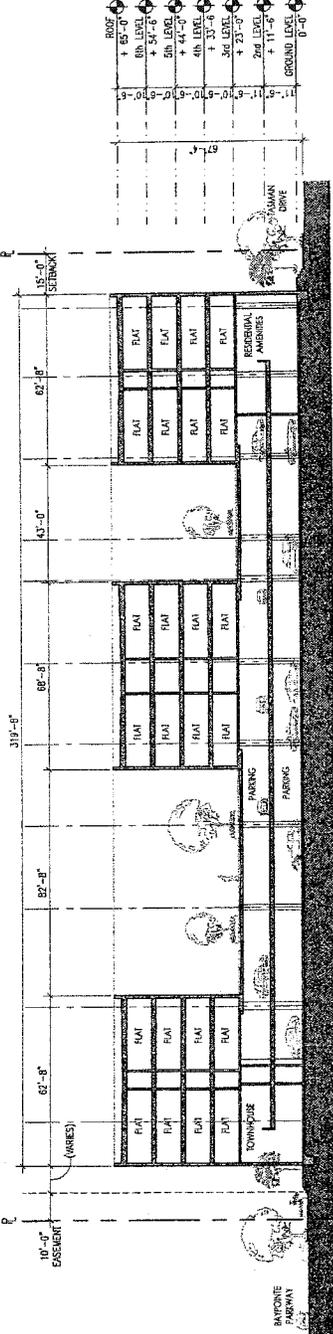
DATE: 11/11/11



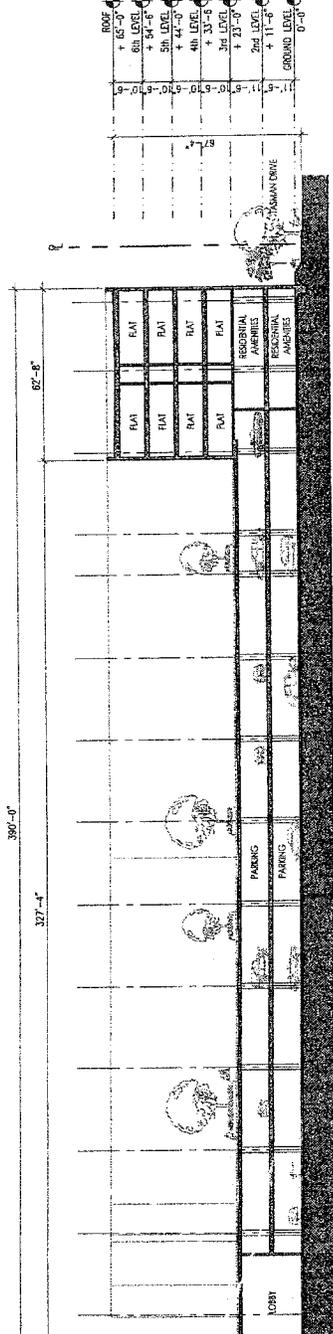
Figure 14



BUILDING SECTION - 1

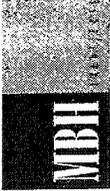


BUILDING SECTION - 2



BUILDING SECTION - 3

BUILDING SECTIONS



1000 BAYVIEW BLVD
SUITE 1000
SAN JOSE, CA 95128
TEL: 415.435.1000



CONCEPTUAL ELEVATION

166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

GENERAL DEVELOPMENT PLAN

EXHIBIT-C

FLOOR-000

This drawing is a conceptual elevation and is not intended to be used for construction. It is provided for informational purposes only. It is not to be used for any other purpose without the prior written consent of the architect.

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

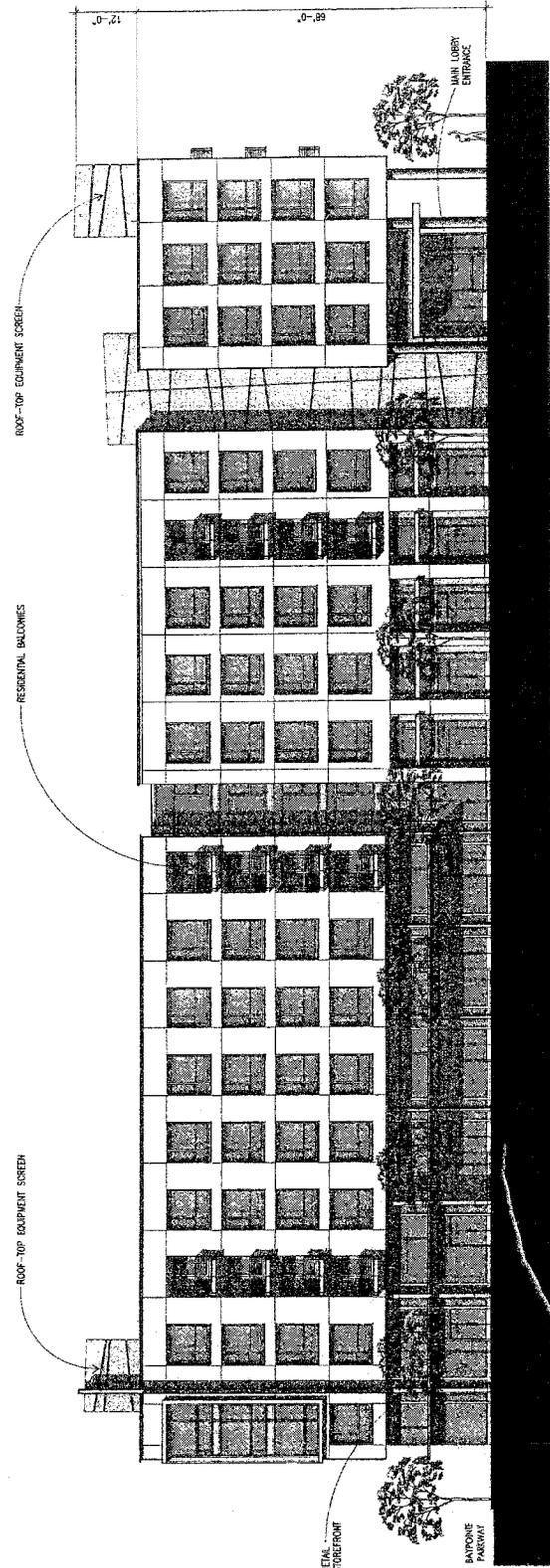
SCALE: 3/32" = 1'-0"

PROJECT: 166 BAYPOINTE PARKWAY

DATE: 08/14/14

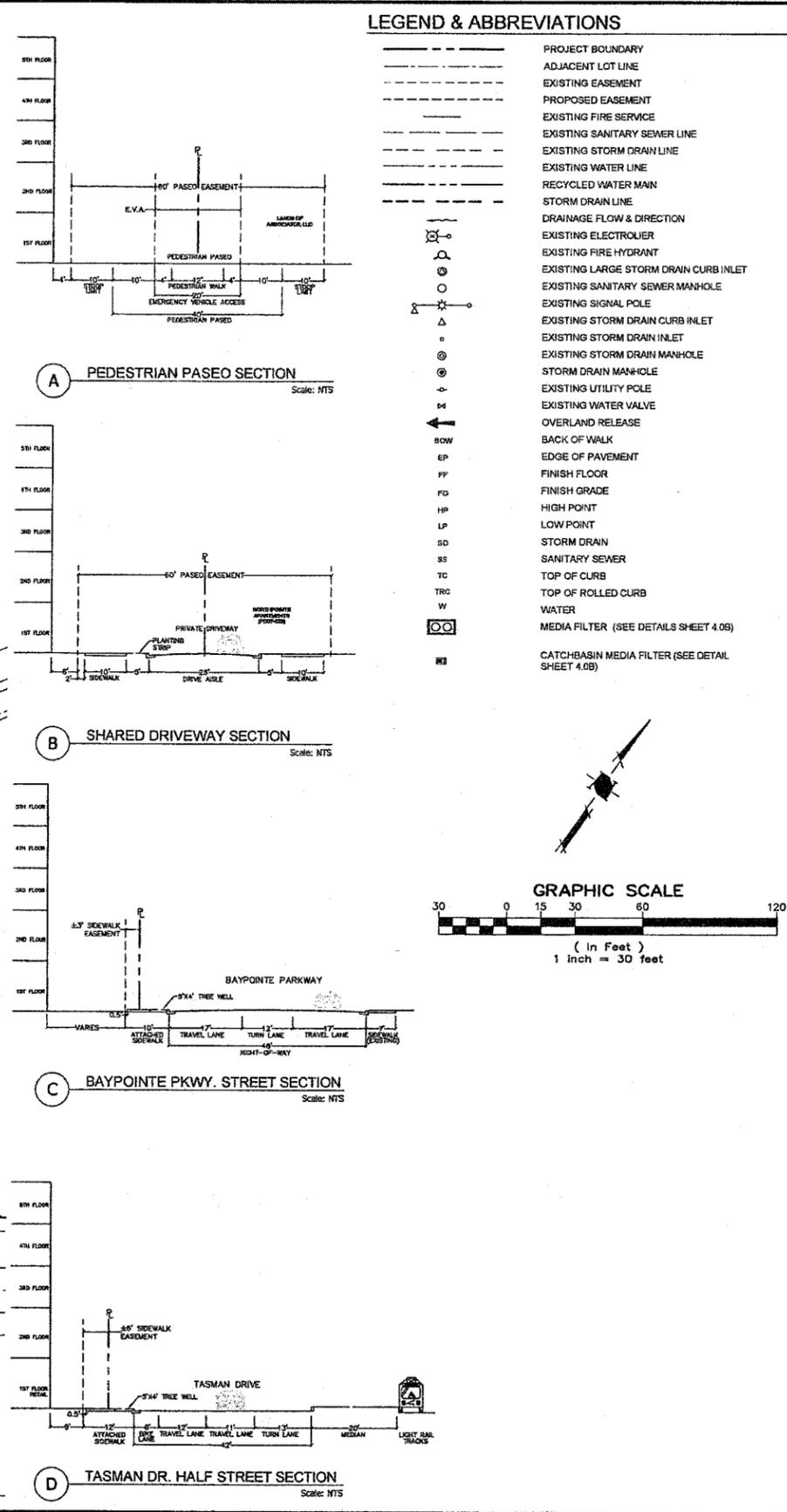
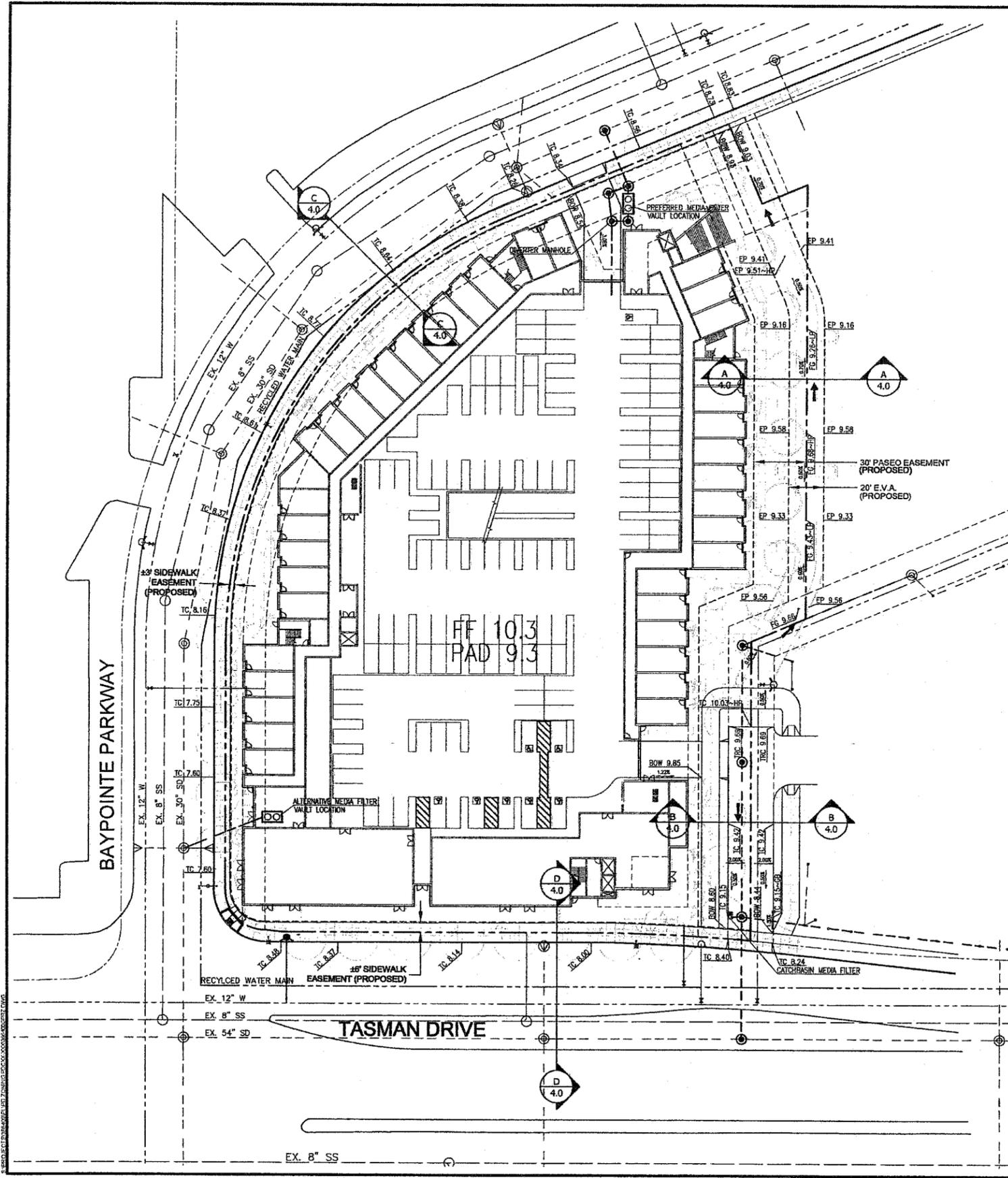


TASMAN DRIVE ELEVATION | 1



54

Figure 15



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SAN MATEO, CA 94404

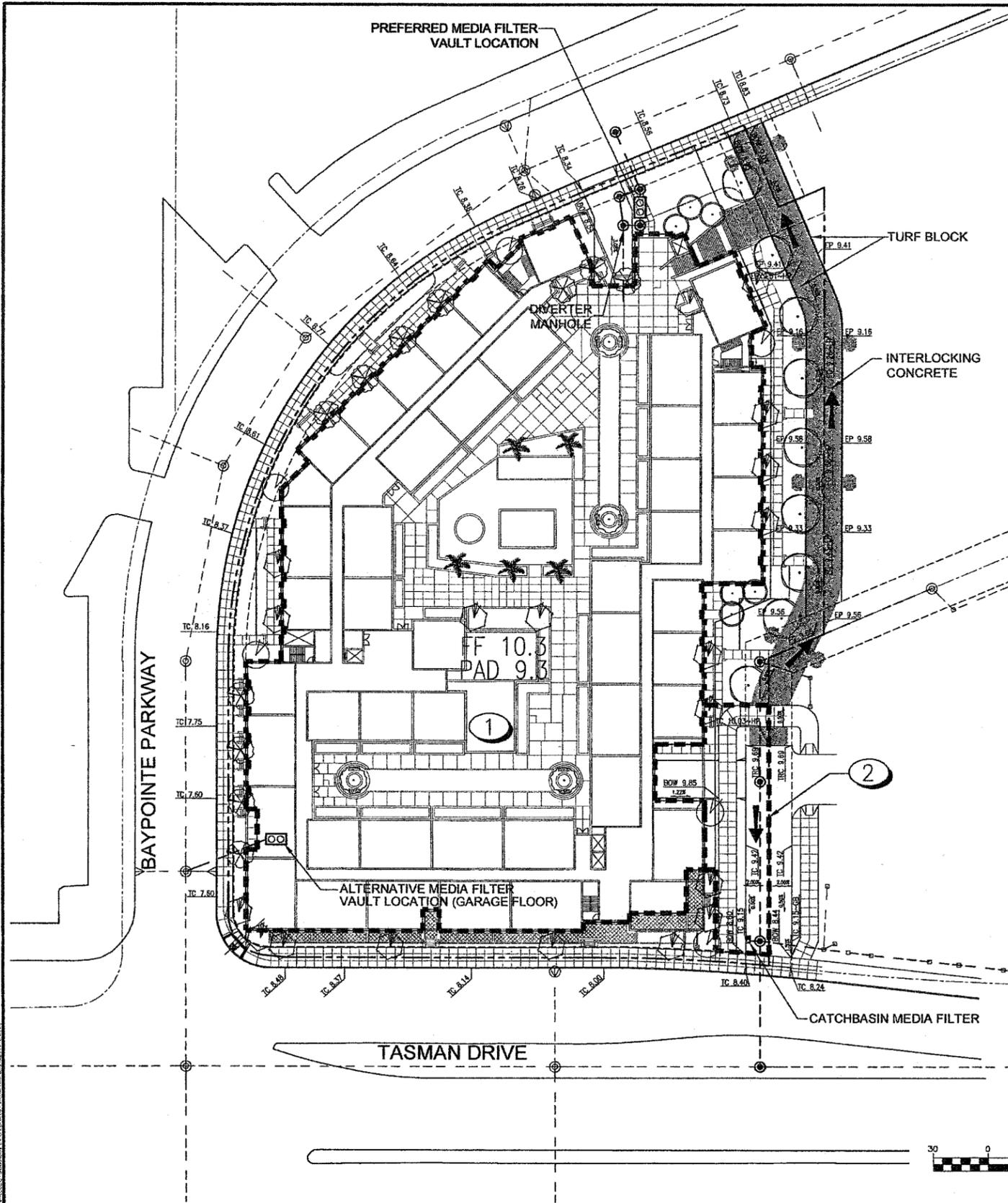
**GENERAL DEVELOPMENT
PLAN - EXHIBIT C
PDC07-080
166 BAYPOINTE PARKWAY**

NO	DATE	DESCRIPTION
1	3/10/2008	PER CITY COMMENTS
2	12/14/2007	PER CITY COMMENTS

PROJECT NO.	3564.00
CAD DWG FILE	356400GPR2.DWG
DESIGNED BY	ZJH/DMG
DRAWN BY	NS
CHECKED BY	MRK
DATE	OCTOBER 5, 2007
SCALE	1"=30'

CONCEPTUAL GRADING AND DRAINAGE PLAN

4.0
OF 16



LEGEND & ABBREVIATIONS

- PROJECT BOUNDARY
- ADJACENT LOT LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING STORM DRAIN LINE
- STORM DRAIN LINE
- DRAINAGE FLOW & DIRECTION
- EXISTING LARGE STORM DRAIN CURB INLET
- △ EXISTING STORM DRAIN CURB INLET
- EXISTING STORM DRAIN INLET
- EXISTING STORM DRAIN MANHOLE
- STORM DRAIN MANHOLE
- ← OVERLAND RELEASE
- BACK OF WALK
- EDGE OF PAVEMENT
- FINISH FLOOR
- FINISH GRADE
- HIGH POINT
- LOW POINT
- STORM DRAIN
- TOP OF CURB
- TOP OF ROLLED CURB
- CATCHBASIN MEDIA FILTER
- MEDIA FILTER (SEE DETAILS SHEET 4.0B)
- (1 MEDIA FILTER PROPOSED TO TREAT AREA 1)
- MEDIA FILTER DRAINAGE AREA - PODIUM (SEE SIZING CALCULATIONS, SHEET 4.0B)
- MEDIA FILTER DRAINAGE AREA - STREET (SEE SIZING CALCULATIONS, SHEET 4.0B)
- PROPOSED EVERGREEN TREE (SEE TREE CREDIT SUMMARY, LANDSCAPE PLANS)
- PROPOSED DECIDUOUS TREE (SEE TREE CREDIT SUMMARY, LANDSCAPE PLANS)
- TURF BLOCK
- INTERLOCKING CONCRETE PAVING

TREE CREDIT SUMMARY

Species	Type	No.	Credit* (Impervious surface area)
<i>Drainage Area 1</i>			
Oshio Beni Japanese maple	deciduous	11	1,100 ft ²
Coral bark maple	deciduous	15	1,500 ft ²
Chinese fringe tree	deciduous	6	600 ft ²
Bronze loquat	evergreen	4	800 ft ²
Raywood ash	deciduous	8	800 ft ²
Magnolia	evergreen	4	800 ft ²
Queen palm	evergreen	5	1,000 ft ²
Sub-totals		54	6,700 ft²
<i>Drainage Area 2</i>			
Coral bark maple	deciduous	3	300
Bronze loquat	evergreen	2	400
Raywood ash	deciduous	1	100
Sub-totals		6	800
Totals		60	7,900 ft²

* Tree Credit ratios are 200 square feet of impervious surface area per evergreen tree, and 100 square feet of impervious surface area per deciduous tree, up to 25% of the total impervious surface area of the site, in accordance with the City of San Jose's Post-Construction Urban Runoff Management Policy. Proposed new trees eligible for credit have canopies located within 30 feet of impervious surfaces.

PERVIOUS AND IMPERVIOUS SURFACE AREA TABLE

	PERVIOUS AREA (SF)	IMPERVIOUS AREA (SF)	TOTAL AREA (SF)
EXISTING	9,189 (7%)	115,554 (93%)	124,743 (100%)
PROPOSED	2,081 (2%)	122,662 (98%)	124,743 (100%)

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GENERAL DEVELOPMENT PLAN - EXHIBIT C
PDC07-080
166 BAYPOINTE PARKWAY

PROJECT NO.	3864.00
CAD DWG FILE:	3864-0000R2.DWG
DESIGNED BY:	ZLMB/ML
DRAWN BY:	JMK
CHECKED BY:	MC
DATE:	OCTOBER 5, 2007
SCALE:	1"=30'
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STORM WATER CONTROL PLAN

4.0A
OF 16



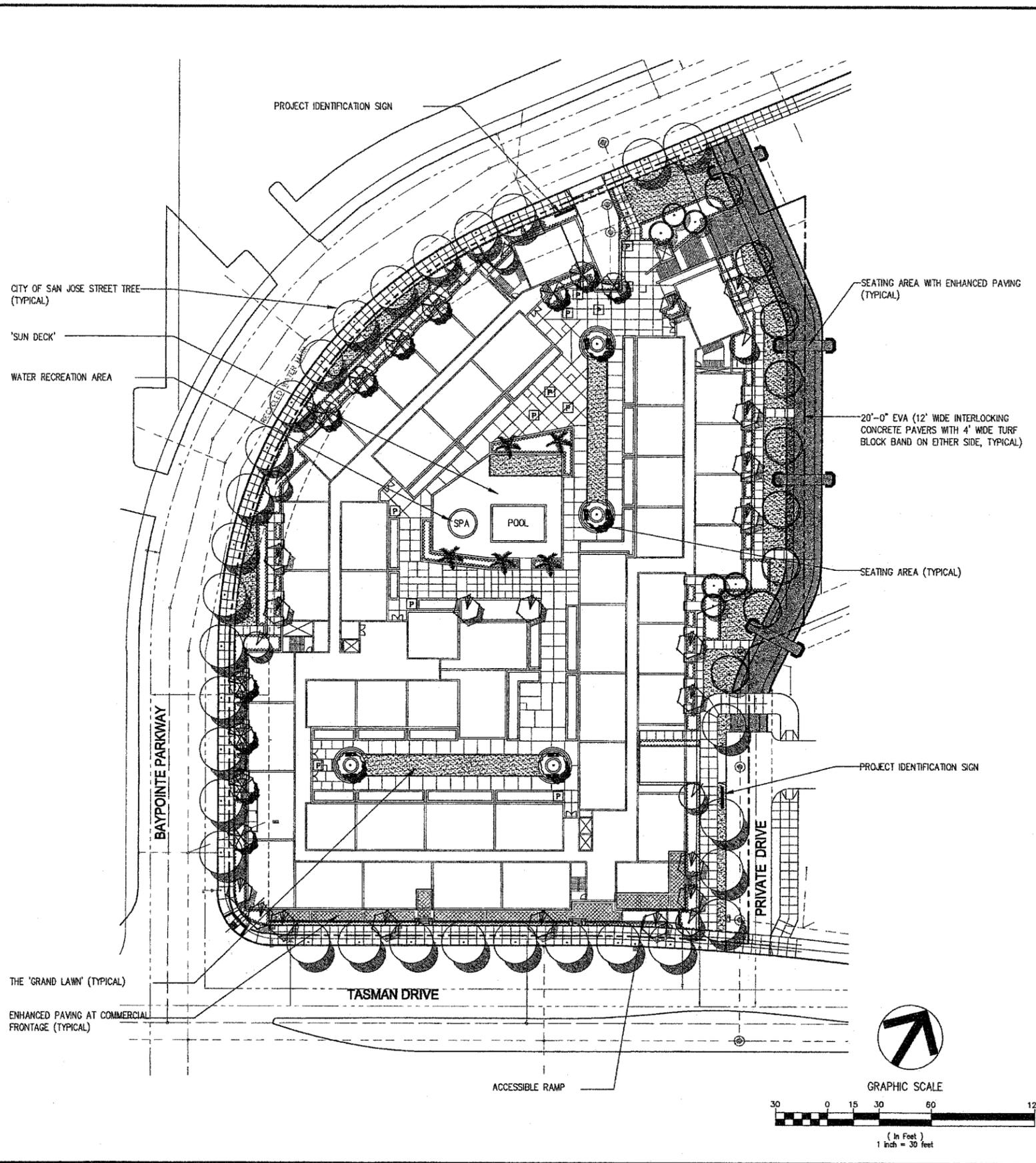
NOT FOR CONSTRUCTION

TCR
 TRAMMELL CROW RESIDENTIAL
 1810 GATEWAY DRIVE, SUITE 240
 SAN MATEO, CA 94404

**GENERAL DEVELOPMENT
 PLAN - EXHIBIT C
 PDC07-080
 166 BAYPOINTE PARKWAY**

NO.	DATE	DESCRIPTION
1	3/10/2008	PER CITY COMMENTS
2	12/14/2007	PER CITY COMMENTS
PROJECT NO.	3884 00	
CAD DWG FILE:	388400CL.DWG	
DESIGNED BY:	ZJL/BGM	
DRAWN BY:	TN	
CHECKED BY:	MK	
DATE:	OCTOBER 5, 2007	
SCALE:	1"=30'	

CONCEPTUAL LANDSCAPE PLAN



PROPOSED PLANT PALETTE

SYMBOL	BOTANICAL NAME	COMMON NAME	MINIMUM CONTAINER SIZE
STREET TREES			
(Symbol)	DESIGNATED STREET TREE (PER CITY OF SAN JOSE)		24" BOX
TREES			
(Symbol)	ACER PALMATUM 'OSHO-BEN'	OSHO-BEN JAPANESE MAPLE	15 GALLON
(Symbol)	ACER PALMATUM 'SANGO KAKU'	CORAL BARK MAPLE	15 GALLON
(Symbol)	CHONANTHUS RETUSUS	CHINESE FRINGE TREE	15 GALLON
(Symbol)	ERIOBOTRYA DEFLEXA	BRONZE LOOKAT	15 GALLON
(Symbol)	FRAXINUS ANGUSTIFOLIA 'RAYWOOD'	RAYWOOD ASH	15 GALLON
(Symbol)	MAGNOLIA GRANDIFLORA 'ST MARY'	MAGNOLIA	24" BOX
(Symbol)	SYAGRUS ROMANOFFIANUM	QUEEN PALM	24" BOX
LARGE SHRUBS			
(Symbol)	ACANTHUS MOLLIS	BEAR'S BREECH	5 GALLON
(Symbol)	BAMBUSA MULTIFLEX 'ALPHONSE KARR'	BAMBOO	5 GALLON
(Symbol)	CAMELIA JAPONICA	JAPANESE CAMELIA	5 GALLON
(Symbol)	DICKSONIA ANTARCTICA	TASMANIAN TREE FERN	5 GALLON
(Symbol)	PITTIOSPORUM TENUIFOLIUM	BLACK STEM PITTIOSPORUM	5 GALLON
(Symbol)	THUJA OCCIDENTALIS 'EMERALD'	EMERALD CEDAR	5 GALLON
(Symbol)	TEBOUCHINA URVILLEANA	PRINCESS FLOWER	5 GALLON
MEDIUM SHRUBS			
(Symbol)	AUCUBA JAPONICA 'VARIATA'	GOLD DUST PLANT	5 GALLON
(Symbol)	HEBE 'WRI BLUSH'	VERONICA	5 GALLON
(Symbol)	IMPERATA CYLINDRICA 'RUBRA'	JAPANESE BLOOD GRASS	5 GALLON
(Symbol)	LOROPETALUM CHINESE 'RUBRUM'	RED FRINGE FLOWER	5 GALLON
(Symbol)	HANDIHA D. 'PLUM PASSION'	PLUM PASSION HEAVENLY BAMBOO	5 GALLON
(Symbol)	NERUM OLEANDER 'PETITE SALMON'	DWARF OLEANDER	5 GALLON
(Symbol)	PENNESETUM 'EATON CANYON'	EATON CANYON DWARF FOUNTAIN GRASS	5 GALLON
(Symbol)	PHORALUM 'BRONZE BABY'	BRONZE BABY FLAX	5 GALLON
(Symbol)	PHORALUM 'YELLOW WAVE'	YELLOW WAVE FLAX	5 GALLON
(Symbol)	RHAPHIOLEPIS INDICA 'BALLERINA'	DWARF INDIAN HAWTHORN	5 GALLON
SMALL SHRUBS			
(Symbol)	ASPIDISTRA ELATOR	CAST IRON PLANT	5 GALLON
(Symbol)	CALADRIUM BICOLOR	FANCY LEAFED CALADRIUM	5 GALLON
(Symbol)	COLEONEMA PULCHRUM 'GOLD SUNSET'	GOLDEN BREATH OF HEAVEN	5 GALLON
(Symbol)	ELCONIUM FORTUNEI 'IVORY JADE'	IVORY JADE EBONYMUS	5 GALLON
(Symbol)	ESCALLONIA 'NEWPORT DWARF'	DWARF ESCALLONIA	5 GALLON
(Symbol)	HEUCHERA MICRANTHA 'PALACE PURPLE'	CORAL BELLS	5 GALLON
(Symbol)	HANDIHA D. 'NANA COMPACTA'	DWARF HEAVENLY BAMBOO	5 GALLON
(Symbol)	PENNESETUM THUNBERGII 'RED BUTTONS'	RED BUNNY TAILS FOUNTAIN GRASS	5 GALLON
(Symbol)	PHORALUM TENAX 'JACK SPRATT'	JACK SPRATT FLAX	5 GALLON
(Symbol)	PHORALUM TENAX 'TINY TIGER'	TINY TIGER FLAX	5 GALLON
GROUNDCOVERS			
(Symbol)	ASPARAGUS DENISFLORUS 'SPRENGER'	SPRENGER ASPARAGUS	5 GALLON
(Symbol)	CAREX BARBARRAE	SANTA BARBARA SEDGE	5 GALLON
(Symbol)	CEPATOSTOMA PLUMBAGNODICES	BLUE LEADWORT	5 GALLON
(Symbol)	FESTUCA OVINA 'GLAUCIA'	BLUE FESCUE	5 GALLON
(Symbol)	LANTANA MONTIENSIS 'NEW GOLD'	NEW GOLD TRAILING LANTANA	5 GALLON
(Symbol)	PACHYSANDRA TERMINALIS 'GREEN CARPET'	JAPANESE SPURGE	5 GALLON
(Symbol)	TRACHELOSPERMUM ASIATICUM	YELLOW STAR JASMINE	5 GALLON
TURF			
(Symbol)	FESTUCA SP.	TALL FESTUCA BLEND	SOD
VINES			
(Symbol)	CLYSTOSTOMA CALLISTEIOIDES	LAVENDER TRUMPET VINE	5 GALLON
(Symbol)	FASSONIA ALATICAERULEA	PARSON VINE	5 GALLON
(Symbol)	SOLANUM RANTONNETI	PARAGUAY NIGHTSHADE	5 GALLON
POTTERY			
(Symbol)	TO BE SELECTED BY LANDSCAPE ARCHITECT		

NOTES: BARK MULCH: ALL PLANTER AREAS TO RECEIVE A 2" THICK LAYER OF FIR BARK MULCH.

II. ENVIRONMENTAL SETTING, IMPACT CHECKLIST AND MITIGATION

1. AESTHETICS

SETTING

Scenic Vista

The project site is currently developed with a two-story industrial building. The predominant character of the visual and aesthetic environment in the project area is that of a modern industrial neighborhood. There are no prominent viewpoints (other than buildings) within or adjacent to the project site; this portion of the Santa Clara Valley is flat. The baylands that surround San Francisco Bay are located approximately 0.5 mile to the north, but neither the baylands nor the San Francisco Bay is visible from the project site. The most visually prominent scenic resources in this region are the hillsides that border the Santa Clara Valley on three sides (east, south and west). The hills closest to North San Jose are those to the east. Under existing conditions, views of the eastern foothills for people within North San Jose are partially obstructed by buildings, trees and utility poles.

Scenic Resources

The project site is not located adjacent to a designated scenic route.

Visual Character

The current view of the project site consists of a landscaped two-story industrial park office building, parking and trees, which can be seen in the preceding photographs, Figures 7 and 8.

Light and Glare

The project site is currently developed for industrial uses, and is surrounded by other industrial uses.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
I. AESTHETICS. Would the project:						
a. Have a substantial adverse effect on a scenic vista?				X		25, 26,27,83
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings and historic buildings within a state scenic highway?				X		25,26,27 29,31,83

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
1. AESTHETICS (Cont.). Would the project:						
c. Substantially degrade the existing visual character or quality of the site and its surroundings?				X		25, 26,27,83
d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?				X		25,26, 28,32,83
e. Increase the amount of shading on public open space (e.g., parks, plazas and/or school yards)?				X		25, 26,28,83

Scenic Vista

Because of the existing visual character of the project site, the change to a multi-story residential building would not have a substantial effect on scenic vistas.

Scenic Resources

Due to the fact that there are no state scenic highways along any of the roads that border the project site, there would be no impact to trees, rock outcrops or historic buildings along a scenic highway.

Visual Character

The project would change the view of the site from a landscaped two-story industrial park office building, parking and trees to a landscaped six-story building consisting of retail and residential uses, and trees. Parking would be contained within the building interior. Replacement trees, street trees and landscaping will be provided as part of the project. As discussed in the North San Jose EIR, the proposed project would increase mass and density as compared to the existing uses onsite. The proposed project would increase the effective height of residential buildings to up to 68 feet above existing grade. The building would be subject to architectural review as part of the Planned Development Permit process prior to development, and would be required to comply with existing applicable design guidelines for residential, mixed-use, and North San Jose development. Because of the developed character of the project site and vicinity, the proposed project would not substantially degrade the existing visual character or quality of the site.

Light and Glare

The proposed project would involve residential development with a portion of the project site dedicated to commercial retail uses. The project could potentially produce offsite light and glare. The project will be designed to utilize downward-directed lighting in order to prevent offsite light and glare in accordance with the City's Outdoor Lighting on Private Developments Policy.

Shade and Shadows

Impacts caused by shade and shadows occur when a building or structure reduces access to natural sunlight. As discussed in the North San Jose EIR, the City typically identifies significant shade and shadow impacts as occurring when a building substantially reduces natural sunlight on private or public open spaces as measured at midday on the first day of winter (December 21st) and on the vernal and autumnal equinoxes (March 21st and September 21st).

As shown on the following Shadow Study exhibit, most of the shadows cast by the proposed project would be within the project boundaries and would not impact buildings or structures located adjacent to the project. In winter, when the shadows are the longest, the proposed project would primarily cast morning shadows on Bayfronte Parkway. During the afternoon hours, shadows would be cast on the adjacent future residential development to the east. During the vernal and autumnal equinoxes, the proposed project would result in shading the same areas but to a much lesser degree.

Temporary Construction Visual Impacts

Construction of a typical project causes short-term visual impacts. The grading operations create a visual impact, and construction debris, rubbish and trash can accumulate on construction sites and are unsightly if visible from public streets. Public streets that are impacted by project construction activities will be swept and washed down daily. Debris, rubbish and trash will be cleared from any areas onsite that are visible from a public street. The completion of the project improvements and landscaping will eliminate the short-term visual impacts of the grading and construction operations.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

- The project design will conform to the City's Residential Design Guidelines that include measures such as perimeter setbacks, landscaped areas, building design, and solar access.
- Lighting on the site will conform to the City's Outdoor Lighting Policy (4-3).

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measures, the proposed project would not result in any new or more significant visual impacts than those addressed in the North San Jose EIR.

2. AGRICULTURE RESOURCES

SETTING

Important Farmlands

The *Santa Clara County Important Farmland Map*, prepared by the California Department of Conservation and the USDA Natural Resources Conservation Service, classifies land in seven categories in order of significance: 1) prime farmland, 2) farmland of Statewide importance, 3) unique farmland, 4) farmland of local importance, 5) grazing land, 6) urban and built-up land and 7) other land. The project site is classified as "urban and built-up land," which is defined as land occupied by structures with a building density of at least one unit to one and one-half acres.

Williamson Act

The California Land Conservation Act ("Williamson Act") was enacted to help preserve agricultural and open space lands via a contract between the property owner and the local jurisdiction. Under the contract, the owner of the land agrees not to develop the land in exchange for reduced property taxes. The project site is not under a Williamson Act contract.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
2. AGRICULTURE RESOURCES. Would the project:						
a. Convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X		33,34,83
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X		35,64,83
c. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?				X		25, 26,28,83

Important Farmlands

The project site is classified as urban and built-up land on the *Important Farmland Map* for Santa Clara County. Since the site is not located in an area identified as prime farmland, nor is the site being used for or zoned for agricultural use, the project would not have a significant impact on agricultural land.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

The proposed project would not result in any new or more significant impacts on agricultural resources than those addressed in the North San Jose EIR.

3. AIR QUALITY

SETTING

Bay Area Air Quality Management District

The project site is located within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The District includes seven Bay Area counties and portions of two others. Air quality emission and control standards are established by the BAAQMD and the California Air Resources Board, and by the Environmental Protection Agency (EPA) at the Federal level. These agencies are responsible for developing and enforcing regulations involving industrial and vehicular pollutant emissions, including transportation management and control mitigation measures.

Regional Climate

The air quality of a given area is not only dependent upon the amount of air pollutants emitted locally or within the air basin, but also is directly related to the weather patterns of the region. The wind speed and direction, the temperature profile of the atmosphere, and the amount of humidity and sunlight react with the emitted pollutants each day, and determine the resulting concentrations of air pollutants defining the "air quality."

The Bay Area climate is Mediterranean, with mild, rainy winters November through March, and warm, sunny and nearly dry summers June through September. Summer temperature inversions trap ground level pollutants. Winter conditions are less conducive to smog, but thin evening inversions sometimes concentrate carbon monoxide emissions at ground level.

Air Quality Standards

The U.S. EPA and the California Air Resources Board have both established ambient air quality standards for common pollutants to avoid adverse health effects from each pollutant. The pollutants, which include ozone, carbon monoxide (CO), nitrogen dioxide, and particulate matter (PM₁₀ and PM_{2.5}), and their standards are included in the Local Air Quality table that follows.

Regional Air Quality

The Federal Clean Air Act and the California Clean Air Act of 1988 require that the State Air Resources Board, based on air quality monitoring data, designate portions of the state where the federal or state ambient air quality standards are not met as "nonattainment areas". Because of the differences between the federal and state standards, the designation of nonattainment areas is different under Federal and State legislation.

The Bay Area is currently a nonattainment area for the 1-hour ozone standard. However, in April 2004, U.S. EPA made a final finding that the Bay Area has attained the federal 1-hour ozone standard. The finding of attainment does not mean the Bay Area has been reclassified as an attainment area for the 1-hour standard; the region must submit a re-designation request to EPA in order to be reclassified as an attainment area. The U.S. EPA has classified the San

Francisco Bay Area as a nonattainment area for the federal 8-hour ozone standard. The Bay Area was designated as unclassifiable/attainment for the federal PM_{2.5} standard.

Under the California Clean Air Act, Santa Clara County is a nonattainment area for ozone and particulate matter (PM₁₀ and PM_{2.5}). The county either meets attainment or is unclassified for the other pollutants. The California Clean Air Act requires local air pollution control districts to prepare air quality attainment plans; these plans must provide for district-wide emission reductions of five percent per year averaged over consecutive three-year periods or, if not, provide for adoption of “all feasible measures on an expeditious schedule”.

Local Air Quality

Air quality in the project area is subject to the problems experienced by most of the Bay Area. Emissions from millions of vehicle-miles of travel each day often are not mixed and diluted, but are trapped near ground level by an atmospheric temperature inversion. Prevailing air currents generally sweep from the mouth of the Bay toward the south, picking up and concentrating pollutants along the way. A combination of pollutants emitted locally, the transport of pollutants from other areas, and the natural mountain barriers (the Diablo Range to the east and the Santa Cruz Range to the southwest) produce high concentrations. Air quality data from the last three years at the nearest BAAQMD monitoring station in San Jose, and Federal and State standards, are shown in the following table.

Table 2. Local Air Quality

Pollutant	Standard	Days Exceeding Standard		
		2004	2005	2006
OZONE				
State 1-hour	0.09 ppm	0	1	5
State 8-hour	0.07 ppm	*	1	5
Federal 1-hour	0.12 ppm	0	**	**
Federal 8-hour	0.08 ppm	0	0	1
CARBON MONOXIDE				
State/Federal 8-hour	9.0 ppm	0	0	0
NITROGEN DIOXIDE				
State 1-hour	0.25 ppm	0	0	0
PARTICULATE MATTER (PM₁₀)				
State 24-hour	50 µg/m ³	4	2	2
Federal 24-hour	150 µg/m ³	0	0	0
PARTICULATE MATTER (PM_{2.5})				
Federal 24-hour	65 µg/m ³	0	0	***
Federal 24-hour	35 µg/m ³	***	***	6

ppm = parts per million

µg/m³ = micrograms per cubic meter

SOURCE: Bay Area Air Quality Management District monitoring data for San Jose.

* The California 8-hour standard was implemented on May 17, 2005.

** The U.S. EPA revoked the national 1-hour standard on June 15, 2005.

*** The U.S. EPA revised the national 24-hour PM_{2.5} standard from 0.65 µg/m³ to 0.35 µg/m³ on December 17, 2006.

Project Site

The project site is similar to other locations in the South Bay; air quality meets adopted State and/or Federal standards (the more stringent standard applies) on most days, and during periods when regional atmospheric conditions are stagnated, the air quality is poor throughout the extended South Bay area. There are no existing sources on the project site that currently adversely affect local air quality.

Sensitive Receptors

Sensitive receptors are facilities where sensitive receptor population groups (children, the elderly, the acutely ill and the chronically ill) are likely to be located. These land uses include residences, schools, playgrounds, child care centers, retirement homes, convalescent homes, hospitals and medical clinics. The closest sensitive receptors are the mobile home park residences located northerly of the project site.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
3. AIR QUALITY. Would the project:						
a. Conflict with or obstruct implementation of the applicable air quality plan?				X		29,37,83
b. Violate any air quality standard or contribute substantially to an existing or projected air quality violation?				X		26,37,83
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is classified as non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?				X		26,37,83
d. Expose sensitive receptors to substantial pollutant concentrations?				X		28,37,83
e. Create objectionable odors affecting a substantial number of people?				X		26,28,83

Regional and Local Impacts

The development of the proposed project would contribute to the significant regional and local air quality impact identified in the North San Jose EIR; however, the proposed project, would not result in any new or more significant regional or local air quality impacts than were described in the EIR.

Odors

The project would not generate objectionable odors or place sensitive receptors adjacent to a use that generates odors (i.e., landfill, composting, etc.).

Sensitive Receptors

The closest sensitive receptors (the mobile home park residences located northerly of the project site) could be subjected to fugitive dust as a result of construction, as discussed below.

Temporary Construction Air Quality

Project construction would produce short-term fugitive dust generated as a result of soil movement and site preparation. Construction would cause dust emissions that could have a significant temporary impact on local air quality. Fugitive dust emissions would be associated with site preparation activities, such as excavation and grading, and building demolition and/or construction. Dust emissions would vary substantially from day to day, depending on the level of activity, the specific operations, and weather conditions. Particulates generated by construction are recognized, but small, contributing sources to regional air quality. While it is a potential impact, construction dust emissions can be mitigated by dust control and suppression practices that are appropriate for the project and level of activity.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Temporary Construction Air Quality

- The following construction practices will be implemented during all phases of construction to prevent visible dust emissions from leaving the site.
 - Water all active construction areas at least twice daily and more often during windy periods; active areas adjacent to existing land uses will be kept damp at all times, or will be treated with non-toxic stabilizers or dust palliatives;
 - Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least 2 feet of freeboard;
 - Pave, apply water at least three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites;
 - Sweep daily, or more often if necessary (preferably with water sweepers), all paved access roads, parking areas and staging areas at construction sites; water sweepers will vacuum up excess water to avoid runoff-related impacts to water quality; and
 - Sweep streets daily, or more often if necessary (preferably with water sweepers), if visible soil material is carried onto adjacent public streets.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measures, the proposed project would not result in any new or more significant air quality impacts than those addressed in the North San Jose EIR.

4. BIOLOGICAL RESOURCES

Live Oak Associates, Inc. conducted a tree survey dated September 19, 2007 that is included in the Technical Appendix.

SETTING

Vegetation

The project site consists of a landscaped industrial park building, parking and trees. There are no designated Heritage Trees on the site, and no rare or endangered plant species are known to inhabit the site.

Trees

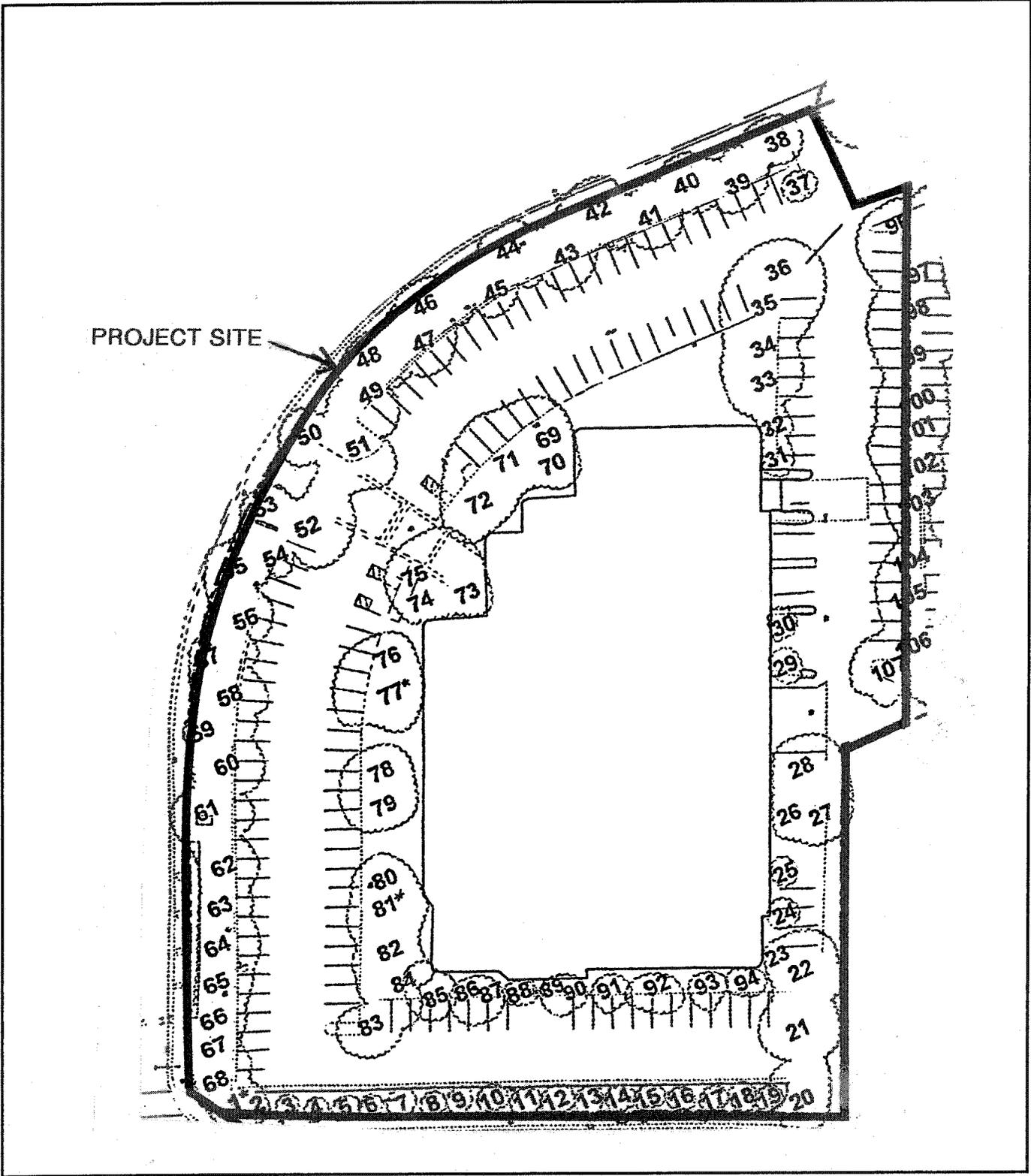
A detailed tree survey of all trees on the site was conducted. A total of 108 trees, ranging in diameter from 4 inches to 19 inches, were tagged and evaluated. Ninety-six (96) trees are located on the project site; the remaining 12 trees are located offsite along the easterly boundary. Three (3) onsite trees exceed 18 inches in diameter and come under the review of the City's Tree Ordinance. The approximate locations of the trees are shown on the following Tree Locations map, and a summary table listing the trees by botanical name, common name, the number surveyed, and the ranges of their diameter and general condition follows. Native trees are shown in this table in **bold**. A detailed table listing each individual tree and photographs of the Ordinance-sized trees are included in the Technical Appendix.

Table 3. Tree Survey Summary

Botanical Name	Common Name	Number	Diameter (in.)* Range	General Condition.
Onsite				
<i>Platanus racemosa</i>	Western Sycamore	41	4 to 14	Fair to Good
<i>Pyrus</i> sp.	Pear	23	5 to 19	Fair to Good
<i>Fraxinus latifolia</i>	Oregon Ash	15	7 to 15	Good
<i>Liquidambar styraciflua</i>	Sweetgum	12	4 to 9	Good
<i>Sequoia sempervirens</i>	Coast Redwood	3	4 to 19	Good
<i>Alnus rhombifolia</i>	White Alder	<u>2</u>	13 to 15	Good
		96	Native = 56	
Offsite				
<i>Fraxinus latifolia</i>	Oregon Ash	<u>12</u>	5 to 13	Good
	Total:	108		

* Diameter at 2 feet above ground.

Note: Native trees are shown in **bold**.



Tree Locations

Figure 20

Riparian Corridor Habitat

Riparian corridor habitat, i.e., vegetation occurring along the banks of a waterway, is not located on or within 300 feet of the project site. The project would not be constructed within 100 feet of riparian corridor habitat (within 100 feet of the top of bank or edge of riparian vegetation of any waterway).

Santa Clara Habitat Conservation Plan / Natural Communities Conservation Plan (HCP/NCCP)

The Planning Agreement for the HCP/NCCP requires that the California Department of Fish and Game (DFG) and other agencies comment on Reportable Interim Projects and recommend mitigation measures or project alternatives that will help achieve the preliminary conservation objectives and not preclude important conservation planning options or connectivity between areas of high habitat value. The project site is within the interim referral area; however, it will not adversely affect natural communities, and no referral is required.

Wildlife

The project site contains developed habitat. Wildlife typically associated with this habitat type include birds, reptiles, and small mammals. No rare or endangered animal species are known to inhabit the site. The site does not contain any known important wildlife breeding, nesting or feeding areas.

Raptors

All raptors (i.e., eagles, hawks and owls) and their nests are protected under both Federal and State regulations. The Federal Migratory Bird Treaty Act prohibits killing, possessing or trading in migratory birds except in accordance with regulations prescribed by the Secretary of the Interior. This Act encompasses whole birds, parts of birds and bird nests and eggs. Birds of prey are protected in California under the State Fish and Game Code. Section 3503.5 states that it is *“unlawful to take, possess, or destroy any birds in the order Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.”* Construction disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “taking” by the DFG. Any loss of fertile eggs or nesting raptors, or any activities resulting in nest abandonment would constitute a significant impact. Construction activities such as tree removal, site grading, etc., that disturb a nesting raptor onsite or immediately adjacent to the site constitute a significant impact.

The project site contains trees that may provide suitable habitat for tree-nesting raptors; however, no raptor nests are currently known to exist on the site. The site does not provide suitable habitat for burrowing owls.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
4. BIOLOGICAL RESOURCES. Would the project:						
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				X		25,67,83
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				X		25,41,83
c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act including, but not limited to, marsh, vernal pool, coastal, etc., through direct removal, filling, hydrological interruption or other means?				X		25,83
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X		25,83
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X		29, 40,83,90
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or state habitat conservation plan?				X		25,29,83

Trees

There are 96 trees on the project site, ranging in diameter from 4 to 19 inches. All of the trees, of which 56 are native, are planned to be removed with the project, as indicated by an "X" on the Existing Trees table in the Technical Appendix. Three (3) of the trees to be removed (Nos. 1, 77 and 81) exceed 18 inches in diameter (56-inch circumference) and come under the review of the City's Tree Ordinance, which requires approval for the removal of any tree with an 18-inch diameter (56-inch circumference) or greater. Street trees will be planted along the public streets. Any tree that is removed will be replaced with the addition of a new tree(s) at the ratios shown in the Tree Replacement Ratios table that follows.

Offsite trees to remain will be safeguarded before and during construction by a Tree Protection Plan developed by a consulting arborist, and implemented with measures such as the storage of oil, gasoline, chemicals, etc. away from trees; grading around trees or root pruning only as approved, and prevention of drying out of exposed soil where cuts are made; any additional tree pruning needed for clearance performed or supervised by an arborist; application of supplemental irrigation as determined by the consulting arborist; no dumping of liquid or solid wastes in the dripline or uphill from any tree; and construction of barricades around the dripline of the trees until all grading and construction is completed, as outlined in the City's Tree Ordinance.

Replacement trees are in addition to normal landscaping and any required street trees. If sufficient area is not available onsite within the project for all of the replacement trees, a contribution would be made to Our City Forest where the funds would be used to plant trees within the City.

Santa Clara Habitat Conservation Plan / Natural Communities Conservation Plan (HCP/NCCP)

The project site is not located in an area that is protected by an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or State conservation plan.

Wildlife

The project requires the removal of all of the trees and vegetation on the site. The birds and small mammals would diminish during the initial construction, but as the new urban landscaping matures, birds that have adapted to the urban environment would return.

Raptors

The project site provides potentially suitable habitat for tree-nesting raptors. The site does not currently contain any known raptor nests; however, pre-construction surveys for nesting raptors should be conducted.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Trees

- Any tree that is removed will be replaced with the addition of a new tree(s) at the ratios shown in the following Tree Replacement Ratios table.

Table 4. Tree Replacement Ratios

Diameter of Tree to be Removed	Type of Tree to be Removed			Minimum Size of Each Replacement Tree
	Native	Non-Native	Orchard	
18 inches or greater	5:1	4:1	3:1	24-inch box
12 to 17 inches	3:1	2:1	None	24-inch box
Less than 12 inches	1:1	1:1	None	15-gallon container

x:x = tree replacement to tree loss ratio

Note: Trees greater than 18" diameter shall not be removed unless a Tree Removal Permit, or equivalent, has been approved for the removal of such trees.

- The species and exact number of trees to be planted on the site will be determined at the development permit stage, in consultation with the City Arborist and the Department of Planning, Building and Code Enforcement.
- Replacement trees are to be above and beyond standard landscaping; required street trees do not count as replacement trees.
- In the event the project site does not have sufficient area to accommodate the required tree mitigation, one or more of the following measures will be implemented, to the satisfaction of the Director of Planning, Building and Code Enforcement, at the development permit stage:
 - The size of a 15-gallon replacement tree may be increased to 24-inch box and count as two replacement trees.
 - An alternative site(s) will be identified for additional tree planting. Alternative sites may include local parks or schools or installation of trees on adjacent properties for screening purposes to the satisfaction of the Director of the Department of Planning, Building and Code Enforcement. Contact Todd Capurso, Parks, Recreation and Neighborhood Services Landscape Maintenance Manager, at 277-2733 or todd.capurso@sanjoseca.gov for specific park locations in need of trees.
 - A donation of \$300.00 per mitigation tree will be paid to Our City Forest for in-lieu offsite tree planting in the community. These funds will be used for tree planting and maintenance of planted trees for approximately three years. A donation receipt for offsite tree planting will be provided to the Planning Project Manager prior to issuance of a development permit.

MITIGATION MEASURES INCLUDED IN THE PROJECT

Active Raptor Nests

- If possible, construction should be scheduled between September and December (inclusive) to avoid the raptor nesting season. If this is not possible, pre-construction surveys for nesting raptors shall be conducted by a qualified ornithologist to identify active raptor nests that may be disturbed during project implementation. Between January and April (inclusive) pre-construction surveys shall be conducted no more than 14 days prior to the initiation of construction activities or tree relocation or removal. Between May and August (inclusive), pre-construction surveys shall be conducted no more than thirty (30) days prior to the initiation of these activities. The surveying ornithologist shall inspect all trees in and immediately adjacent to the construction area for raptor nests. If an active raptor nest is found in or close enough to the construction area to be disturbed by these activities, the ornithologist shall, in consultation with the California Department of Fish and Game, designate a construction-free buffer zone (typically 250 feet) around the nest, which shall be maintained until after the breeding season has ended and/or a qualified ornithologist has determined that the young birds have fledged. The applicant shall submit a report to the City's Environmental Principal Planner indicating the results of the survey and any designated buffer zones to the satisfaction of the City's Environmental Principal Planner prior to the issuance of any grading or building permit.

CONCLUSION

With the implementation of the above standard measures and mitigation measure, the proposed project would not result in any new or more significant impacts on biological resources than those addressed in the North San Jose EIR.

5. CULTURAL RESOURCES

Holman & Associates conducted archaeological archival research dated September 28, 2007 that is included in the Technical Appendix.

SETTING

Prehistoric Resources

The project site is within a potential archaeological resource zone as outlined on the maps on file at the City of San Jose Planning Division. Maps and records at the California Historical Resources Information System, located at Sonoma State University, were consulted on June 2, 2006, for any record of archaeological remains in and around the project area.

Two studies have been done in the project area since the 1970s. In 1976, Joseph Winter completed an archaeological study of the Dorcich development, a 77.5-acre parcel that included the existing project area; no cultural resources were discovered at that time. Subsequently, a cultural resources assessment was done in 1997 by Basin Research Associates for the Rincon de los Esteros development area; again there was no report of cultural resources inside the current project area. The files did not contain any report of subsequent archaeological studies of the Dorcich property, and/or specifically of the development that was built on the project site in the early 1980s.

There are no known cultural sites on the project site, nor does the site have any natural features of significant scenic value or with rare or unique characteristics.

Historic Resources

There is an existing industrial park building located on the project site, which was constructed approximately 20 years ago. This structure is not listed as a City Landmark or Candidate City Landmark, nor is it listed or determined eligible for listing on the National or California Register of Historic Places.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
5. CULTURAL RESOURCES. Would the project:						
a. Cause a substantial adverse change in the significance of an historical resource as defined in CEQA Guidelines §15064.5?				X		25, 43,44,83
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines §15064.5?				X		27, 42,83,91

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
5. CULTURAL RESOURCES (Cont.). Would the project:						
c. Directly or indirectly destroy a unique paleontological resource or site, or unique geologic feature?				X		26,67,83
d. Disturb any human remains, including those interred outside of formal cemeteries?				X		27,83

Prehistoric Resources and Native American Burials

The project site is in a potential archaeological resource zone; however, there are no recorded sites on the property. It has been an assumption of the archaeological community that the area bordered by the Guadalupe River and Coyote Creek should contain prehistoric sites buried under alluvial deposits of several feet or more, an opinion that has not been borne out by the archaeological record. The proposed construction, which requires excavation for demolition, new foundations and utilities, could encounter buried archaeological resources that were not disturbed by the existing building when it was constructed. A qualified professional archaeologist will be retained to inspect the site for cultural deposits after the site has been cleared of all buildings, foundations, and other improvements; removal of foundations and utilities should allow an adequate inspection of the subsurface soils, thus eliminating the need to conduct a program of mechanical subsurface testing. The project would not have a significant impact on known archaeological resources. Although they are not expected to be found at this location, Native American burials are protected by State law.

Historic Resources

As there are no designated historical structures on the site or in the vicinity and the existing structure is less than 50 years old, the project would have no significant impact on historic resources.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Prehistoric Resources and Native American Burials

- In the unlikely event that evidence of unknown prehistoric cultural resources is discovered during construction, work within 50 feet of the find will be stopped to allow adequate time for evaluation and mitigation, and a qualified professional archaeologist called in to make an evaluation; the material will be evaluated; and if significant, a mitigation program including collection and analysis of the materials prior to the resumption of grading, preparation of a report and curation of the materials at a recognized storage facility will be developed and implemented to the satisfaction of the Director of Planning and submitted to the City's Environmental Principal Planner.

- Pursuant to Section 7050.5 of the Health and Safety Code, and Section 5097.94 of the Public Resources Code of the State of California: In the event of the discovery of human remains during construction, there will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains. The Santa Clara County Coroner will be notified by the developer and will make a determination as to whether the remains are Native American. If the Coroner determines that the remains are not subject to his authority, he will notify the Native American Heritage Commission, who will attempt to identify descendants of the deceased Native American. If no satisfactory agreement can be reached as to the disposition of the remains pursuant to this State law, then the landowner will reinter the human remains and items associated with Native American burials on the property in a location not subject to further subsurface disturbance.
- Any Native American human remains that are discovered and would be subject to disturbance will be removed and analyzed, a report will be prepared, and the remains will be reburied in consultation and agreement with the Native American Most Likely Descendant designated by the Native American Heritage Commission. Prior to obtaining a Building Permit, a copy of the report will be submitted to the City's Environmental Principal Planner to the satisfaction of the Director of Planning.

MITIGATION MEASURES INCLUDED IN THE PROJECT

- A qualified professional archaeologist shall be retained to inspect the site for cultural deposits after the site has been cleared of all buildings, foundations, and other improvements. If evidence of prehistoric cultural resources is discovered during the inspection, work within 50 feet of the find will be stopped to allow adequate time for evaluation and mitigation; the material will be evaluated; and if significant, a mitigation program including collection and analysis of the materials prior to the resumption of grading, preparation of a report and curation of the materials at a recognized storage facility will be developed and implemented to the satisfaction of the Director of Planning and submitted to the City's Environmental Principal Planner.

CONCLUSION

With the implementation of the above standard measures and mitigation measure, the proposed project would not result in any new or more significant impacts on cultural resources than those addressed in the North San Jose EIR.

6. GEOLOGY AND SOILS

ENGEO Incorporated conducted a preliminary geotechnical assessment dated January 13, 2006 and a summary of geotechnical hazards dated May 31, 2006 that are both included in the Technical Appendix. The reports cover an 11.4-acre property bounded by Tasman Drive, Baypointe Parkway and Zanker Road, of which the current 2.86-acre project site is a part. Geocon Consultants, Inc. conducted a geotechnical peer review of the 2006 ENGEO preliminary geotechnical assessment, dated September 12, 2007, that is also included in the Technical Appendix.

SETTING

Topography

The project site has a uniform northwesterly slope of less than one half percent. Elevations on the site range from approximately 14 feet above sea level at the easterly boundary to approximately 13 feet above sea level at the northwesterly corner. There are no significant topographical features on the site.

Geology

The project site is underlain by Quaternary alluvium (Qal), which consists of unconsolidated to weakly consolidated silt, sand and gravel. Quaternary alluvium includes Holocene and late Pleistocene alluvium and minor amounts of beach and dune sand and marine terrace deposits.

Geologic Hazard Zone

The project site is not located in a geologic hazard zone as mapped by the City of San Jose in accordance with the Geologic Hazards Ordinance.

Soils

The project site is underlain by the alluvial soils of the Orestimba - Willows association as classified by the United States Department of Agriculture, Soil Conservation Service. Campbell silty clay loam, clay substratum (Cc) and Willows clay, slightly alkali (Wb) are the specific soil types identified at the site.

Campbell silty clay loam, clay substratum, is characterized by a dark gray, granular, hard, mildly alkaline surface layer approximately 22 to 28 inches thick; somewhat poor natural drainage; slow subsoil permeability; very slow surface runoff; no erosion hazard; high inherent fertility (Class III); and a moderate shrink/swell capacity.

Willows clay, slightly alkali, is characterized by a dark gray, granular, very hard, slightly calcareous surface layer approximately 10 to 15 inches thick; moderately good natural drainage; slow subsoil permeability; ponded surface runoff; no erosion hazard; low inherent fertility because of salts (Class III); and a high shrink/swell capacity.

The site is mapped within a hazard zone for liquefaction on the City's *Geologic/Seismic Hazard Zones* maps. According to Cooper-Clark and Associates' San Jose Geotechnical Investigation,

the site is mapped as having a high liquefaction potential, weak soil layers and lenses occurring at random locations and depths; moderately to highly expansive soils, no erosion potential; and is not susceptible to landslides. The liquefaction potential is considered to warrant further geologic study at the environmental review stage. The remainder of the soils conditions can be managed using standard engineering measures and do not require further geologic study at this time as part of the environmental review process, but may require further analysis prior to the issuance of a grading or building permit.

Faulting

There are no identified earthquake faults mapped on the site, and the site is not mapped within a designated Alquist-Priolo Earthquake Fault Zone (formerly Special Studies Zone) or within a City of San Jose Fault Hazard Zone. The nearest active fault zones are the Hayward and Calaveras Faults, which are mapped approximately 4.4 and 8.3 miles respectively to the northeast, and the San Andreas Fault, which is mapped approximately 20.5 miles to the southwest. A “reported fault” (a concealed, queried splay of the potentially active Silver Creek Fault) is mapped in the vicinity of the site on the City’s *Fault Hazards Map*.

Geotechnical Assessment

A preliminary geotechnical assessment was conducted to identify geotechnical constraints that would affect site planning decisions and development. The assessment included a review of readily available literature and geologic maps for the project area, a site reconnaissance, a limited subsurface exploration using cone penetrometer test (CPT) probes, analysis of the data, and formulation of conclusions and recommendations.

Literature Review

Regional geologic maps locate the site in the broad, north-south trending, alluvial-filled Santa Clara Valley. Soils at the site are mapped as composed of fine-grained sand, silt and clay.

Field Investigation

A surface reconnaissance of the site was performed on December 23, 2005. Five cone penetrometer test probes were advanced (two of which are located on the current project site) to depths ranging from 58 to 80 feet below the existing ground surface (bgs). The approximate locations and logs of the CPT probes are included in the report in the Technical Appendix. No soil samples were collected due to the exploration method implemented. According to empirical correlations of the CPT data, the probes generally encountered medium stiff to hard clay overlying medium dense to dense sands with interbedded clay, silt, gravel and over-consolidated material to the maximum depths explored. In general, the clay was encountered predominantly above a depth of 25 to 32 feet bgs; however, deeper clay layers were encountered throughout the site as described in the report in the Technical Appendix. Groundwater was encountered at approximately 6.2 feet bgs in the probes on the current project site.

Investigative Conclusions

Residential development on the site is considered feasible from a geotechnical standpoint. The main geotechnical concerns for the proposed site development include: 1) potential seismic hazards; 2) the presence of potentially expansive near-surface soils; 3) potential load-induced settlement; and 4) the anticipated existence of shallow groundwater.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
6. GEOLOGY AND SOILS. Would the project:						
a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving: 1) Rupture of a known earthquake fault, as described on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)				X		46,47, 50,51,83, 92,93,94
2) Strong seismic ground shaking?				X		83,92,93
3) Seismic-related ground failure, including liquefaction?				X		31,49,83, 92,93,94
4) Landslides?				X		83,92,93
b. Result in substantial soil erosion or the loss of topsoil?				X		48,49,83
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				X		49,83, 92,93,94
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				X		48,49,83, 92,93,94
e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				X		28,83

General

All earthwork and foundation plans and specifications shall comply with the recommendations of the preliminary geotechnical assessment by ENGEO Incorporated. The preliminary geotechnical assessment lists approximately 15 recommendations that are included in the project for site grading, foundations, pavement design and surface drainage, most of which reflect standard engineering practices that are required for similar projects. Site-specific conditions are described below.

Expansive Soils

The surface soils on the site pose a hazard to building foundations because of their shrink/swell potential. Measures for buildings on expansive soils include drainage control and the use of special foundations. Drainage will be controlled and directed away from the structure and pavements. Post-tensioned or conventionally reinforced mat foundations will be utilized.

Differential Settlement

Undocumented Fill

Minor fills likely exist on the site, associated with the existing building, which sits slightly higher than surrounding landscaping, parking areas and roads for drainage purposes. Existing fills are also present as utility trench backfill. In addition, depending upon the depths of excavations required, a differential fill condition may arise that could adversely impact the performance of the foundations. Loose or compressible surface soils will be subexcavated to expose native soil and replaced with properly engineered fill. A differential fill thickness of up to 5 feet is acceptable across a building footprint; as a minimum, the subexcavation area will include the entire structure footprint plus 5 feet beyond the edges of the building footprint.

Load-Induced Settlement

Portions of the fine-grained material located above 25 feet bgs are medium stiff and below groundwater levels. Some of these materials may be subject to load-induced settlement (compression) under the weight of new fills or building loads. Loose or compressible surface soils will be subexcavated to expose native soil and replaced with properly engineered fill.

Shallow Groundwater

Groundwater was encountered at elevations ranging from 6.2 to 11.0 feet bgs. Temporary dewatering systems might be required during construction. Permanent basements will require designs that consider the presence of high groundwater levels. In addition, fluctuations in groundwater levels should be expected during seasonal changes over a period of years because of precipitation changes, perched zones, changes in drainage patterns, and irrigation.

Erosion

Development of the project site may subject the soils to accelerated erosion. In order to minimize erosion, erosion control measures such as those described in the Association of Bay Area Governments (ABAG) *Manual of Standards for Erosion & Sediment Control Measures* will be incorporated into the project.

Ground Rupture

Ground rupture (surface faulting) tends to occur along lines of previous faulting. The site is not located within a State of California Earthquake Fault Hazard Zone. As there are no known active faults on the site, and since the concealed and queried projection of the Silver Creek Fault is not zoned by the State of California or City of San Jose for future study, the potential for ground rupture at the site due to an earthquake is low.

Seismic Shaking

The maximum seismic event occurring on the site would probably be from effects originating from the Hayward, Calaveras, or San Andreas fault systems. Ground shaking effects can be expected in the area during a major earthquake originating along any of the active faults within the Bay Area. At present, it is not possible to predict when or where movement will occur on these faults. It must be assumed, however, that movement along one or more of these faults will result in a moderate or major earthquake during the lifetime of any construction on this site. The effects on development would depend on the distance to the earthquake epicenter, duration, magnitude of shaking, design and quality of construction, and geologic character of materials underlying foundations.

The maximum credible earthquake, which is defined as "*the maximum earthquake that appears capable of occurring under the presently known framework*", for the San Andreas Fault ranges from magnitude 8.0 to 8.3; and from magnitude 7.0 to 7.5 for either the Hayward or Calaveras Faults. The maximum probable earthquake, which is defined as "*the maximum earthquake that is likely to occur during a 100-year interval*", for the San Andreas Fault ranges from magnitude 7.5 to 8.5; from magnitude 6.75 to 7.5 for the Hayward Fault; and from magnitude 6.5 to 7.0 for the Calaveras Fault.

Structural damage from ground shaking is caused by the transmission of earthquake vibrations from the ground into the structure. Ground shaking is apparently the only significant threat to structures built on the site; however, it is important to note that well-designed and constructed structures that take into account the ground response of the soil or rock in their design usually exhibit minor damage during earthquake shaking.

The proposed structures on the site will be designed and constructed in conformance with the Uniform Building Code Guidelines for Seismic Zone 4 to avoid or minimize potential damage from seismic shaking on the site.

Secondary Seismic Effects

Liquefaction

Soil liquefaction is a phenomenon in which saturated, cohesionless soil layers located close to the ground surface lose strength during cyclic loading, such as imposed by earthquakes. During the loss of strength, the soil acquires a "mobility" sufficient to permit both horizontal and vertical movements. Soils that are most susceptible to liquefaction are clean, loose, saturated,

uniformly graded, fine-grained sands. The CPT probes did indicate the presence of several zones of medium dense granular material located below the groundwater table, generally below 20 feet bgs; therefore, preliminary liquefaction analyses were performed on the CPT data as described in the report in the Technical Appendix. The analyses indicated that the thick sand and gravel unit and trace thin silt layers displayed multiple lenses that are potentially liquefiable. These liquefiable layers were encountered in each probe location at depths ranging from 13 feet to 66 feet bgs. Due to the depth of the potentially liquefiable soils and thickness of non-liquefiable material above those materials, it does not appear that these zones are susceptible to ground failure; however, if site grades are lowered due to excavation for subterranean structures, there is an increased potential for ground failure. If these levels are not lowered, these zones are not considered susceptible to ground failure.

Densification

Densification of the sandy soils above and below groundwater levels can result in settlement/densification during an earthquake. The granular deposits encountered are estimated to undergo up to 2.5 inches of earthquake-induced densification (total). Preliminary foundation design will incorporate a differential settlement of 1.25 inches over a 40-foot length/width or between column supports, whichever is less. Use of post-tensioned or conventionally reinforced mat foundations is a common method to address differential settlement caused by earthquakes. Alternatively, ground improvement techniques such as subexcavation to remove densifiable soils or dynamic compaction could be considered.

Other Secondary Seismic Effects

Based on the topographic and lithologic data, the risk of earthquake-induced lurch cracking, regional subsidence or uplift, landslides, tsunamis or seiches is considered low at the site.

Peer Review

A peer review of the above 2006 ENGEO Incorporated preliminary geotechnical assessment was conducted by Geocon Consultants, Inc. in order to evaluate whether the report generally conforms to the standard of practice for the area at the time the report was prepared; and to evaluate the report's applicability to the proposed development of the site. Geocon Consultants, Inc. concluded that the ENGEO preliminary report generally conforms to the standard of practice for the area at the time the report was prepared. They concur that additional geotechnical exploration will be required for final design. Feasible foundation types for the site would include either post-tensioned or conventional mat foundations; due to the estimated liquefaction settlements, strip and spread footings would likely not be feasible. As groundwater was encountered at a depth of about 6 feet, construction of partially or fully below-grade structures would require dewatering, subgrade stabilization, and waterproofing. The near-surface soils are likely highly expansive, generally requiring thicker pavement and flatwork sections.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Erosion

- A City-approved Erosion Control Plan will be developed and implemented prior to approval of a grading permit or Public Works clearance with such measures as: 1) the timing of grading activities during the dry months, if feasible; 2) temporary and permanent planting of exposed soil; 3) temporary check dams; 4) temporary sediment basins and traps and/or 5) temporary silt fences.

Seismic Shaking

- The proposed structures on the site will be designed and constructed in conformance with the Uniform Building Code Guidelines for Seismic Zone 4 to avoid or minimize potential damage from seismic shaking on the site.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measures, the proposed project would not result in any new or more significant geology and soils impacts than those addressed in the North San Jose EIR.

7. HAZARDS AND HAZARDOUS MATERIALS

Geocon Consultants, Inc. conducted a Phase I environmental site assessment dated October 2, 2007 that is included in the Technical Appendix. Belinda P. Blackie, PE, REA conducted a vicinity hazardous materials users survey dated February 1, 2008, that is included in the Technical Appendix. Hammett & Edison, Inc. conducted a radio frequency exposure study dated February 29, 2008, that is included in the Technical Appendix.

SETTING

Phase I Environmental Site Assessment

A Phase I environmental site assessment was conducted to identify any recognized environmental conditions associated with the property. The term “recognized environmental condition” (REC) means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The investigation included site history research (a review of historical aerial photographs and maps, interviews with knowledgeable persons, and review of previous environmental studies); a site reconnaissance to review site use and current conditions; and regulatory agency database review for soil and/or groundwater contamination cases on the site and in the vicinity.

Historical Review – Aerial Photographs

Historical aerial photographs of the site and vicinity from 1939 through 1998 were reviewed for information regarding past conditions and land use at the project site and in the immediate vicinity. The 1939 photographs show the property and surrounding area as agricultural (orchards and/or row crops); no structures are visible. Photographs from 1956 through 1982 show the site and adjacent properties as relatively unchanged. A large mobile home park is visible to the northwest by 1982. By 1993, the property use and site improvements are similar to current conditions, with the commercial office building visible and with Baypointe Parkway and Tasman Drive in their current locations. Additional commercial buildings and vacant land were present north and east of the site. The site and immediately surrounding area appear relatively unchanged in the 1998 photograph; however, additional office buildings are visible along the north side of Baypointe Parkway.

Historical Review – Topographic Maps

Historical topographic maps from 1953 through 1980 were reviewed to determine if discernible changes in topography or improvements pertaining to the project site had been recorded. The project site is shown as orchard on the 1953 map; surrounding areas are predominantly agricultural and rural residential land. By 1973, the property appears similar to the 1953 condition, and the surrounding area appears relatively unchanged with the exception of a large mobile home park shown to the north. The property and surrounding area appear relatively unchanged on the 1980 map.

Interviews with Knowledgeable Persons

The son of the current property owner was interviewed to obtain information regarding the history of the site. The current property owners have owned the site since about 1998. The existing building was constructed about 1985, and previously the site was used for agricultural purposes. A former groundwater monitoring well was installed in about 1990 to test for potential impacts from offsite sources and no contamination was reported. Two drainage sumps located in the landscaping along the south side of the building were installed to facilitate drainage from the landscaping, but pumps had never been installed in the sumps to pump out water. The current tenant, a furniture liquidator, has been onsite since about 2006; and telecommunications carriers, Pacific Bell and Nextel, have had equipment on the site since about 2000 and 2007, respectively. Prior tenants at the site during the 1990s to mid-2000s included Hyundai Electronics, JTS Corp., ONI Systems, and IMP; ONI Systems' operations included electronic components assembly, but specific operations of the other tenants were not known. No current or former underground storage tanks (USTs), storage or releases of hazardous materials or hazardous waste, or other environmental concerns were known.

According to the Santa Clara Valley Water District (SCVWD), the monitoring well was installed in 1990 with a total depth of 22 feet; and was abandoned under SCVWD permit on December 24, 2005.

Previous Environmental Studies

A modified phase one environmental site assessment was prepared by Engeo Incorporated for an 11.4-acre property that included the project site in January, 2006, as detailed in the report in the Technical Appendix. The report did not identify any RECs in connection with the site. Based on the past agricultural use of the property, soil sampling and laboratory testing for organochlorine pesticides and pesticide-related metals (lead, mercury and arsenic) were conducted. Ten soil borings were advanced at the 11.4-acre property, including three borings on the project site. Shallow soil samples were collected from beneath asphalt and aggregate materials, and the ten discrete samples were composited into five two-point composite samples, with sub-samples retained for discrete analysis. The five composite samples were tested for organochlorine pesticides, lead and mercury; five discrete samples were tested for arsenic.

Results for the composite soil sample collected at the site reported lead at a concentration of 8.5 milligrams per kilogram (mg/kg) and mercury at 0.14 mg/kg; organochlorine pesticides were not detected above their respective laboratory detection limits. Results for the composite soil sample with one of the two samples collected at the project site reported lead at 73 mg/kg, mercury at 0.20 mg/kg, and the organochlorine pesticides DDE and DDD at concentrations of 0.22 mg/kg and 0.027 mg/kg, respectively. Composite sample results from soil borings throughout the 11.4-acre property reported lead at 8.5 mg/kg to 73 mg/kg; mercury at 0.07 mg/kg to 0.2 mg/kg; and the organochlorine pesticides DDE at 0.039 mg/kg to 0.22 mg/kg, DDT at 0.025 mg/kg (one sample) and DDD at 0.027 mg/kg (one sample). Arsenic results for soil samples collected at the

site were 5.8 mg/kg and 7.8 mg/kg; arsenic levels in soil samples collected from the five soil borings throughout the 11.4-acre property ranged from 5.8 mg/kg to 18 mg/kg.

Site Reconnaissance

A site reconnaissance was conducted on August 3, 2007 to check for the storage, use, production or disposal of hazardous or potentially hazardous materials. The project site includes a two-story commercial concrete tilt-up, slab-on-grade office building (approximately 53,000 square feet) with surrounding asphalt parking and vehicular areas, and landscaped areas. Interior floor covering consisted mostly of carpet and vinyl floor tile, and the majority of the office space had drop-down acoustic ceilings. The first floor of the building was occupied by an office furniture liquidator. The second floor of the building was vacant. Two telecommunications carriers, Pacific Bell and Nextel, have antennae located on the building rooftop; a Nextel equipment shed was observed adjacent to the east exterior wall of the building.

A former groundwater monitoring well (grout patch) was observed in the parking lot on the south side of the site; three soil borings (grout patches) were also observed in the west and north parking lots. Two landscaping sumps were situated in the raised landscaping adjacent to the southwest and southeast corners of the building. One pad-mounted electrical transformer was observed adjacent to the northeast corner of the building. Two trash dumpster enclosures were located on the eastern side of the building: one of the enclosures contained broken furniture components; the other was locked and only visually inspected through the fence. Areas of patched asphalt were observed along the drive areas of the west and south parking lots. Stained soil, distressed vegetation, unusual odors, evidence of dumping, pits and ponds were not observed at the site. No RECs were observed.

The site is bounded by Baypointe Parkway and commercial buildings to the north and west; commercial office buildings to the east; and Tasman Drive, a Santa Clara Valley Transportation Authority (VTA) light-rail corridor within the Tasman Drive median, and commercial office buildings to the south.

Regulatory Agency Review

A regulatory agency database report was obtained and reviewed to help establish whether contamination incidents have been reported on the site or in the vicinity, as detailed in the report in the Technical Appendix. The project site is not listed on any federal or local agency databases; however, the site is listed on the State Hazardous Waste Information System (HAZNET) database. Information included in the HAZNET database is obtained from copies of hazardous waste manifests received each year by the California Department of Toxic Substances Control (DTSC). The two listings -- for JTS Corporation, a tenant at the site in the mid-1990s -- involved removal of small quantities of materials (7 pounds of laboratory waste chemicals for disposal and 125 pounds of waste/mixed oil for recycling).

Vicinity Hazardous Materials Users Survey

The vicinity hazardous materials users survey was performed to identify facilities in the project vicinity having observed or reported hazardous substance usage, and to evaluate the significance of the identified hazardous substances to the proposed development if an accidental release were to occur. The survey included a visual survey of the site vicinity; review of the list of registered hazardous gas facilities within the City; review of available hazardous materials files for the facilities identified during the first two tasks; review of a regulatory agency database report to identify government agency-recorded facilities having significant hazardous substance usage or having significant reported air emissions or hazardous substance releases; review of available screening level risk evaluation data performed previously for two projects in the vicinity; and a screening level risk evaluation performed for potentially significant facilities that had not previously been evaluated.

Visual Survey

A visual survey of the site vicinity was conducted on November 1, 2007 to identify businesses, railroad tracks and hazardous materials/waste pipelines within a 0.5-mile radius of the site (adjacent to site for pipelines) that appear to have the potential to use, handle and/or store significant quantities of toxic or hazardous materials and/or wastes (hazardous substances). A summary of the 49 businesses identified is presented in the report in the Technical Appendix. Railroad spurs or main lines were not observed within 0.5 mile of the project site, with the exception of VTA Light Rail tracks on North First Street and Tasman Drive. Other than natural gas lines, no pipelines are known to be adjacent to or traverse the project site.

Registered Vicinity Hazardous Gas Facilities

Seven hazardous gas facilities are located within 1.0 mile of the project site, including four located within the 0.5-mile search radius for the visual survey, as detailed in the report in the Technical Appendix.

Registered Vicinity CalARP Facilities

A list of CalARP facilities located within Santa Clara County revealed that two registered facilities are located within 1.0 mile of the project site: Calpine Los Esteros (1515 Alviso-Milpitas Road) and OLS Energy – Agnews (3800 Cisco Way). The Calpine Los Esteros facility is designated as a Program 1 facility, which indicates that risk assessment modeling has determined that a catastrophic release of the regulated chemical at the facility (aqueous ammonia) would not leave the facility boundaries. The OLS Energy – Agnews facility is designated as a Program 3 facility; a catastrophic release of the regulated chemical (anhydrous ammonia) would result in a theoretical impact radius of 1.5 miles.

Screening Level Chemical Risk Appraisal

To evaluate the potential significance of the businesses identified during the visual survey, data on the chemical/waste inventories provided in the most recent Hazardous Materials Business

Plans and San Jose Fire Department (SJFD) hazardous materials inspection reports was reviewed, as detailed in the report in the Technical Appendix. Based on the information reviewed, hazardous materials storage at three facilities appeared to warrant further evaluation; however, it was concluded that modeling hypothetical catastrophic releases for the three facilities was not necessary due to the relatively small quantities of hazardous materials present, the physical properties of the reported hazardous materials, and the distances of the facilities from the project site.

Previous Screening Level Chemical Risk Appraisal

A screening level chemical risk appraisal had previously been conducted for nine of the vicinity facilities as part of hazardous materials users surveys conducted for two proposed redevelopment projects located in the immediate vicinity of the current project site (Sony – 3300 Zanker Road, and Vista Montana Park – 4041 North First Street). Worst-case chemical release scenarios were developed for the nine facilities, as detailed in the report in the Technical Appendix.

The nine facilities were identified as having the potential to produce significant chemical concentrations at the project site in the event of a catastrophic release. Facilities with potential to impact the project site were chosen on the basis of chemical inventories listed with the SJFD and maximum, chemical-specific threat zones identified in the two studies. According to the previous hazard risk assessment, maximum threat zones were derived using worst-case catastrophic hazardous material release assumptions. The nine facilities that could potentially impact the project site are detailed in the following table and shown on the following exhibit.

Radio Frequency Exposure Study

Directional panel antennas for use by Sprint Nextel and T-Mobile personal wireless telecommunications carriers are currently installed on the existing building at the project site. Base stations typically consist of two distinct parts: the electronic transceiver that is connected to the traditional wired telephone lines; and the passive antenna that sends the wireless signals created by the transceiver out to be received by individual subscriber units. The system also includes a battery back-up power supply in case of a power outage. Because of the short wavelength of the frequencies assigned by the Federal Communications Commission (FCC) for wireless services, antennas require line-of-sight paths for their signals to propagate well and so are installed above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. Along with the low power of such facilities, this means that it is generally not possible for exposure conditions to approach maximum permissible exposure limits without being physically very near the antennas.

Table 5. Offsite Facilities with Potential to Impact the Site

Map ID	Facility Name	Address	Chemical of Concern	Maximum Threat Zone (miles)	Approximate Distance to Sony Site (miles)	Approximate Distance to Vista Montana Site (miles)	Approximate Distance to Northpointe Site (miles)
9	Maxxim Integrated Products	3725 North First Street	Chlorine (90 lbs)	0.78	0.8	0.4	0.4
10	JDS Uniphase	80 Rose Orchard Way	Arsine (150 cf) Phosphine (342 cf) Ammonia (1,135 lbs)	1.10 1.80 0.58	1.0	0.2	0.4
11	SDL, Inc.	90 Rose Orchard Way	Arsine (230 cf)	~1.20	1.0	0.2	0.4
14	Wyse	3471 & 3475 North First Street	Chlorine (100 lbs)	0.83	0.5	0.9	0.5
15	OLS Energy Agnews (Calpine)	3800 Cisco Way	Liquefied ammonia (58,000 lbs)	4.20	0.5	1.6	0.5
18	Cypress Semiconductor	3901 North First Street	Phosphine (260 cf) Chlorine (90 lbs)	1.30 0.78	1.0	0.2	0.6
21	Supertex	71 Vista Montana	Phosphine (131 cf) Chlorine (1038 cf)	Not reported ²	1.5	Adjacent	0.8
26	Neophotonics	2911 Zanker Road	Phosphine (210 cf)	1.40	0.3	1.7	1.2
30	San José Water Pollution Control Plant	700 Los Esteros Road	Chlorine (180,000 lbs)	3.40	1.8	1.1	1.2

* The project site is adjacent to the west side of the Northpointe site, so the distances to Facilities 9, 10, 11, 18 and 21 would be slightly less.

**INSERT WORST-CASE ACCIDENTAL RELEASE SCENARIO IMPACT AREAS HERE
(FIGURE 21)**

11 x 17

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
7. HAZARDS AND HAZARDOUS MATERIALS. Would the project:						
a. Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?				X		26,27,28, 83,95,97
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				X		28, 83,95,96
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within one-quarter mile of an existing or proposed school?				X		27,28, 83,95,97
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				X		83,95
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				X		27,69,83
f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				X		27,69,83
g. Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?				X		27,83

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
7. HAZARDS AND HAZARDOUS MATERIALS (Cont.). Would the project:						
h. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				X		25,27, 57,58,83

The project site is not located within the Santa Clara County Airport Land Use Commission (ALUC) jurisdiction, nor is it on one of the City's designated evacuation routes. The site also is not located within an area subject to wildfires.

General

The project site will be viewed by a qualified environmental professional during demolition and pre-grading activities to observe areas of the property that may have been obscured by existing structures or pavement for such items as stained soils, septic systems, underground storage tanks, and/or unforeseen buried utilities; and, if found, a mitigation program will be developed, submitted to the City's Environmental Principal Planner, and implemented with such measures as soil testing, removal and/or offsite disposal at a permitted facility.

Wells

There was a groundwater monitoring well on the project site that was destroyed under the guidance of a SCVWD representative in December, 2005. The well was reportedly installed by the owner to identify potential groundwater impacts from offsite sources. The results of prior groundwater sampling reportedly did not detect contamination.

Soil Contamination

Laboratory analytical results for one two-point composite shallow soil sample collected at the site in 2005 reported lead at a concentration of 8.5 mg/kg and mercury at 0.14 mg/kg, while organochlorine pesticides were not detected above their respective laboratory detection limits. A second two-point composite soil sample, with one of the two samples collected at the site, contained lead at a concentration of 73 mg/kg, mercury at a concentration of 0.20 mg/kg, and the organochlorine pesticides DDE and DDD at concentrations of 0.22 mg/kg and 0.027 mg/kg, respectively. Sample results for two discrete shallow soil samples collected at the site reported arsenic at 5.8 mg/kg and 7.8 mg/kg.

The concentrations of the organochlorine pesticides were below EPA Preliminary Remediation Goals (PRGs), the San Francisco Regional Water Quality Control Board's (RWQCB) environmental screening levels (ESLs) for shallow residential soils, and the DTSC California

Human Health Screening Levels (CHHSLs) for DDE and DDD. The reported lead and mercury concentrations were also below both the DTSC CHHSLs for residential land use and the RWQCB ESLs for shallow residential soil. The reported arsenic levels in soil were above both the DTSC CHHSL for residential land use of 0.07 mg/kg and the RWQCB ESL for shallow residential soil of 5.5 mg/kg; however, the reported concentrations are indicative of background arsenic levels in Bay Area soils, which range from approximately 5 mg/kg to 20 mg/kg, with some soils containing over 40 mg/kg arsenic.

The City Environmental Services Department reviewed the Geocon Consultants, Inc. environmental site assessment report and stated that no additional soil testing is required.

Demolition

The project proposes the demolition of a structure(s) that may contain hazards such as asbestos-containing materials (ACM) or lead based paint (LBP). The structures to be removed should be surveyed for the presence of ACM and/or LBP. If any suspect ACM are present, they should be sampled prior to demolition and removed in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Cal-OSHA requirements, if warranted. Notification must also be made to the Bay Area Air Quality Management District (BAAQMD). If any suspect LBP is present, it should be sampled prior to demolition and removed in accordance with EPA, OSHA and BAAQMD requirements, if warranted.

Accidental Offsite Chemical Release

Air dispersion modeling was performed to evaluate potential hazardous material impacts that would be due to catastrophic releases of selected chemicals from offsite facilities. Detailed catastrophic release scenarios were performed for all of the hazardous material facilities listed in the previous Offsite Facilities with Potential to Impact the Site table, with the exception of Supertex, which was noted in the Vista Montana Initial Study as being slated for residential redevelopment. The risk assessments for the Sony and Vista Montana projects concluded that the probability of worst-case catastrophic releases was low and that engineering and administrative controls at the hazardous material facilities further minimize risks to offsite locations. As indicated on the preceding table, distances from the project site to the selected hazardous material sites are approximately equal to or greater than the comparative distances listed for either the Sony or Vista Montana sites. Since the Sony and Vista Montana hazards analyses have already evaluated offsite catastrophic release analyses from these selected facilities, and the project site is no closer to these nine facilities than the Sony and/or Vista Montana sites, site-specific hazard risk assessment for the project site would not be expected to produce significantly different impacts than were found at these other sites.

Radio Frequency Exposure

Sprint Nextel and T-Mobile directional panel antennas are currently installed on the existing building at the project site. The antennas are to be relocated to the proposed building, within 15-

foot enclosures above the roof; they would be mounted at an effective height of about 78 feet above ground, 13 feet above the roof.

The FCC has adopted human exposure limits for exposure to radio frequency electromagnetic fields, as detailed in the report in the Technical Appendix. Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. These limits apply for continuous exposures, and are intended to provide a prudent margin of safety for all persons regardless of age, gender, size or health. Computer-modeled calculations, shown in the following table, indicate that such fields in publicly-accessible areas at the site are well below the applicable limits; the highest calculated level in publicly-accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Therefore, it is concluded that the proposed facilities comply with the prevailing standards for limiting human exposure to radio frequency energy.

Table 6. Cellular Telephone Radio Frequency (RF) Exposure

FCC Limit (mW/cm^2)*	Combined Sprint Nextel and T-Mobile (mW/cm^2)*
0.58	0.0016

* mW/cm^2 = milliwatts per square centimeter.

Due to their mounting locations, the Sprint Nextel and T-Mobile antennas will not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, no access within 11 feet in front of the antennas, themselves, such as might occur during building maintenance activities, should be allowed while the site is in operation. Posting explanatory warning signs at roof access locations and on the enclosures in front of and/or below the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC guidelines.

The battery back-up power supply for the telecommunications facilities consists of a series of lead acid batteries for each provider. Sprint Nextel and T-Mobile have up to 12 batteries, averaging approximately 1.2 gallons of electrolyte each, for a total of less than 20 gallons of electrolyte. A Hazardous Materials Storage Permit from the City Fire Marshal would need to be obtained if the batteries total more than 55 gallons of electrolyte; however, as the total amount of electrolyte is below this amount, no permit is required. A hazardous materials registration form will be filled out, and the Fire Department will review the plans and inspect the installation as part of the construction process.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Asbestos-Containing Materials

- The structure(s) to be removed will be surveyed for the presence of asbestos-containing materials at the demolition permit stage; and if any suspect ACM are present, they will be sampled prior to demolition in accordance with NESHAP guidelines, and all potentially friable ACM will be removed prior to building demolition and disposed of by offsite burial at a permitted facility in accordance with NESHAP, Cal-OSHA and BAAQMD requirements.

Lead Based Paint

- The structure(s) to be removed will be surveyed for the presence of lead based paint at the demolition permit stage; and if any suspect LBP is present, it will be sampled prior to demolition, and all potential LBP will be removed prior to building demolition and disposed of by offsite burial at a permitted facility in accordance with EPA and OSHA requirements.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measures, the proposed project would not result in any new or more significant hazards and hazardous materials impacts than those addressed in the North San Jose EIR.

8. HYDROLOGY AND WATER QUALITY

SETTING

Waterways

There are no waterways on the project site or within 300 feet of the project site.

Flooding

The project site is not within an area of historic flooding; however, according to the 1988 Federal Emergency Management Agency's (FEMA) *Flood Insurance Rate Maps*, the site is within Zone A0 (Depth 1), which is defined as “*areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined*”. According to the Santa Clara Valley Water District's (SCVWD) *Maps of Flood Control Facilities and Limits of 1% Flooding*, the site is within a zone of flooding to a depth of one foot or more.

Effective October 25, 2006, in conjunction with the Downtown and Lower Guadalupe River Flood Protection Projects, FEMA redesignated portions of the project site as Flood Zone AH, Elevation 9.00 Feet, which is defined as “*areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined*”. The net result is that a portion of the project site will continue to remain within the 100-year floodplain (area having a one percent chance or greater of being flooded in any given year). The limits of the potential inundation are shown on the following 2006 FEMA-based Potential Flooding map.

The project site is also within the 1987 North San Jose Floodplain Management Study (NSJFMS) area; the NSJFMS has been updated to reflect the completed Downtown and Lower Guadalupe River Flood Protection Projects and to show the resulting blockage requirements for applicable projects in North San Jose. Based on the Final NSJFMS Update, the project site is within the ineffective flow area and is not subject to the blockage requirements.

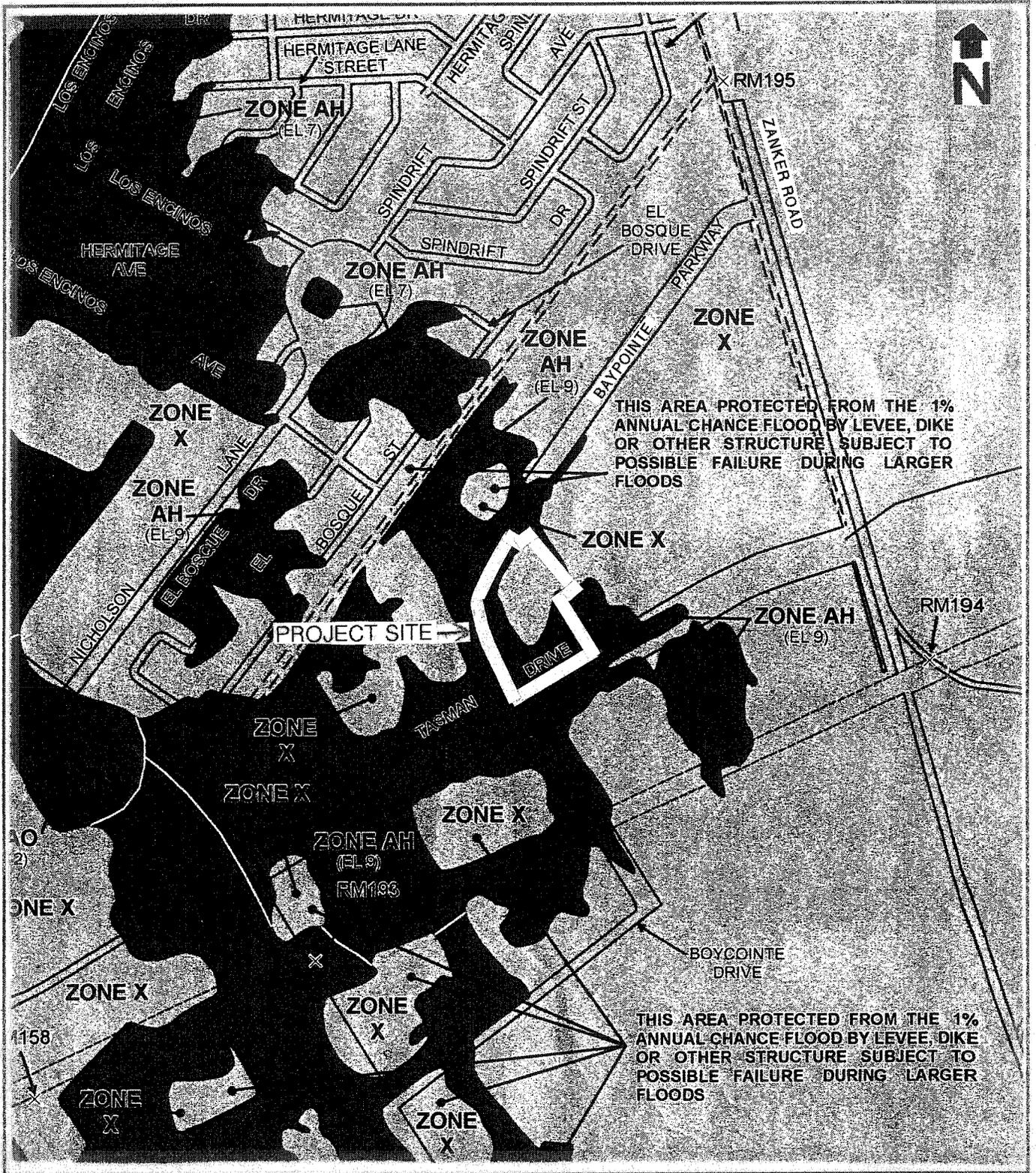
Water Quality

Stormwater runoff flows from the project site via the City's storm drainage lines to the Guadalupe River, and then north to the San Francisco Bay.

The project site is currently covered with a landscaped industrial park building, parking and trees, and is approximately 93 percent impervious surfaces.

Nonpoint Sources

The Clean Water Act states that the discharge of pollutants in stormwater to Waters of the United States from any point source is unlawful, unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. The U.S. Environmental Protection Agency requires under the Clean Water Act that any stormwater discharge from



Source: FEMA, Flood Insurance Rate Maps, San Jose, California, Panel No. 060349-0008F, October 25, 2006

Potential Flooding

Figure 22

construction sites larger than one acre be in compliance with the NPDES. The State Regional Water Quality Control Board (RWQCB), which is responsible for implementing and enforcing the program, issued a statewide General Permit for construction activities. Provisions of the current Permit require that the following issues be addressed with respect to water quality regardless of the size of the site: 1) erosion and sedimentation during clearing, grading or excavation of a site; 2) the discharge of stormwater once construction is completed; and 3) implementation of post-construction treatment controls. Coverage under this Permit would be obtained by submitting a Notice of Intent to the RWQCB that identifies the responsible party, location and scope of operation; and by developing and implementing a Storm Water Pollution Prevention Plan (SWPPP) as well as monitoring the effectiveness of the plan.

The Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) was developed to establish a watershed-based program to control nonpoint sources of pollution from entering water sources and deteriorating water quality. The City of San Jose is a participant in the SCVURPPP. A number of control measures, including those related to development activities, industrial and construction inspections, public agency activities and public outreach efforts, are also currently being developed and implemented. The development, implementation and enforcement of control measures to reduce pollutant discharges from areas of new development is the responsibility of the Urban Runoff Pollution Prevention Program in cooperation with the RWQCB, project developer and subsequent property owners.

The RWQCB issued a revised NPDES Municipal Separate Storm Sewer System (MS4) Permit to the SCVURPPP. The Permit requirements are addressed in the City's Post-Construction Urban Runoff Management Policy (Policy 6-29). Provision C.3 of the Permit establishes two types of requirements for new and redevelopment projects: pollutant control measures and peak flow control measures. Specific pollutant control measures are currently required for projects that add or replace 10,000 square feet or more of impervious surface. Stormwater pollution can be reduced by a combination of site design, source control, and treatment Best Management Practices (BMPs). The Policy includes the requirement of regular maintenance to ensure effectiveness. Provision C.3 also requires the City to require development projects to implement specific numeric sizing hydraulic design calculation methods for stormwater BMPs in lieu of the former qualitative approach. These hydraulic design methods are either volume or flow-based, depending on the type of treatment BMP proposed.

A Post-Construction Hydromodification Management (HMP) Policy (Policy 8-14) was adopted by the San Jose City Council on October 18, 2005. The HMP Policy requires certain development projects to implement post-construction flow-control measures to reduce the volume, velocity and duration of stormwater runoff so that post-project runoff does not exceed pre-project conditions. The project site falls within an area in which post-construction flow control measures are encouraged to be incorporated into new "smaller" projects (those projects on sites less than 50 acres in size) so that post-construction flow volume, velocity and duration match pre-project flow conditions to the "maximum extent practicable".

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
8. HYDROLOGY AND WATER QUALITY. Would the project:						
a. Violate any water quality standards or waste discharge requirements?				X		28, 61,80,83
b. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				X		25,27,83
c. Substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?				X		25,26,83
d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?				X		25,26,83
e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				X		26,28,83
f. Otherwise substantially degrade water quality?				X		26,28,83
g. Place housing within a 100-year flood hazard area as mapped on a Federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				X		26,27, 59,60,83
h. Place within a 100-year flood hazard area structures that would impede or redirect flood flows?				X		26,27, 59,60,83

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
8. HYDROLOGY AND WATER QUALITY (Cont.). Would the project:						
i. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				X		27,28,83
j. Be subject to inundation by seiche, tsunami or mudflow?				X		27,83,93

Flooding

The project site is within the limits of potential inundation with the occurrence of a one percent flood. The site is not subject to seiche or tsunami. There are an existing 30-inch City of San Jose storm drainage line in Baypointe Parkway and an existing 54-inch City storm drainage line in Tasman Drive, which are designed to serve the site in a developed condition. Redevelopment of the site would not cause flooding. Any excess flows beyond the design capacity would pond onsite.

Erosion

The approximately 6 percent increase in impervious surface on the site would result in an increase in runoff. Increased flow and duration can contribute to downstream streambank erosion. The project would not have a direct outfall into any stream. As described above, project flows would drain through the existing storm drainage system to the Guadalupe River, which is approximately 0.8 mile westerly.

Water Quality

The primary impact on water quality would result from the addition of impervious surfaces, such as rooftop, driveway and street runoff. Particulates, oils, greases, toxic heavy metals, pesticides and organic materials are typically found in urban storm runoff. The project's contribution would have a potentially significant impact on water quality. Stormwater runoff could increase under project conditions as the amount of impervious surfaces (buildings and pavement) would increase from approximately 93 percent of the site to approximately 99 percent, as shown in the following table. The proposed increase in impervious surfaces could increase the amount of stormwater discharged into the storm drainage system and the Guadalupe River. In addition, temporary construction-related activities such as clearing, grading, or excavation could result in potentially significant impacts to water quality.

Table 7. Pervious and Impervious Surfaces Comparison

	Existing Condition (sq ft)	%	Proposed Condition (sq ft)	%	Difference (sq ft)	%
Site (acres): 2.86	Site (sq ft): 124,582		124,582			
Building Footprint(s)	36,536	29%	88,520	71%	51,984	42%
Parking/Driveway	79,018	64%	5,339	4%	-73,679	-59%
Sidewalks, Patios, Paths, etc.	0	0%	28,803	23%	28,803	23%
Landscaping/OS	9,028	7%	1,920	2%	-7,108	-6%
Total	124,582	100%	124,582	100%	0	0%
Impervious Surfaces	115,554	93%	122,662	99%	7,108	6%
Pervious Surfaces	9,028	7%	1,920	1%	-7,108	-6%
Total	124,582	100%	124,582	100%	0	0%

Stormwater runoff and pollution would be reduced by the use of tree credits, turf block with interlocking pavers along the paseo, disconnected roof drains, and media filters, as shown on the Conceptual Storm Water Control Plan, Figure 17.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Water Quality

- A Notice of Intent and a Storm Water Pollution Prevention Plan that addresses both construction and post-construction periods and specifies erosion and sediment control measures, waste disposal controls, maintenance responsibilities and non-stormwater management controls, will be submitted to the RWQCB and maintained onsite, respectively, to comply with the stormwater discharge requirements of the NPDES General Permit.
- Stormwater treatment control measures will be hydraulically sized prior to issuance of a Planned Development (PD) Permit in conformance with provisions of the City's Post-Construction Urban Runoff Management Policy and to adopted Santa Clara Valley Pollution Prevention Program NPDES Permit C.3 provisions to the satisfaction of the Director of Public Works.

MITIGATION MEASURES INCLUDED IN THE PROJECT

Flooding

- Buildings shall be designed so that the finished floor is elevated above the projected FEMA flood level.

Water Quality

Construction

- A Storm Water Pollution Prevention Plan (SWPPP) in compliance with the local NPDES permit shall be developed and implemented including: 1) site description; 2) erosion and sediment controls; 3) waste disposal; 4) implementation of approved local plans; 5) proposed post-construction controls, including description of local post-construction erosion and sediment control requirements; 6) Best Management Practices (BMPs) such as the use of infiltration of runoff onsite, first flush diversion, flow attenuation by use of open vegetated swales and natural depressions, stormwater retention or detention structures, oil/water separators, porous pavement, or a combination of these practices for both construction and post-construction period water quality impacts; and 7) non-storm water management.

Post-Construction

- The project shall incorporate the following site design, source control, and treatment measures to minimize the discharge of stormwater pollutants and limit the volume, velocity and duration of runoff:
 - Tree credits shall be utilized.
 - Turf block with interlocking pavers shall be provided along the paseo.
 - Media filters shall be provided on the podium courtyard and at the driveway off Tasman Drive.
 - Roof drains shall discharge and drain into landscaped areas located away from the building foundation to an unpaved area wherever possible.
 - A fee for the maintenance of the proposed media filter system on Tasman Drive shall be paid.
 - A Final Report prepared by a Civil Engineer stating that all the post-construction stormwater BMPs have been correctly installed shall be submitted to the satisfaction of the Director of Public Works.
- A maintenance and monitoring program shall be developed at the PD Permit stage to the satisfaction of the Director of Planning.
- The maintenance and monitoring program shall be implemented to ensure that all stormwater treatment BMPs will be permanently maintained by the project owners for the life of the development, to the satisfaction of the Director of Planning.

CONCLUSION

With the implementation of the above standard measures and mitigation measures, the proposed project would not result in any new or more significant impacts on hydrology and water quality than those addressed in the North San Jose EIR.

9. LAND USE AND PLANNING

SETTING

General Plan

The land use designation for the project site on the *San Jose 2020 General Plan* Land Use/Transportation Diagram is Industrial Park with a Transit/Employment Residential District (55+ DU/AC) Overlay. The project conforms with this Overlay classification.

The Land Use/Transportation Diagram also indicates a “floating park” in the general area bounded by Baypointe Parkway, Tasman Drive and Zanker Road. A “floating park” is described in the *San Jose 2020 General Plan* as follows:

"There are cases where a park is needed, but where either no specific site has yet been identified or where the details of surrounding development have not been finalized. In these cases, the designation for the park will be indicated by the letter 'P'. This symbol represents a 'floating' designation and is only intended to indicate a general area within which a park site will be located. The specific size, location and configuration of such park sites will only be finalized through acquisition of a particular parcel."

Special Areas

The project site is located within North San Jose (Rincon de los Esteros), which is located generally south of State Route 237 (SR 237), east of the Guadalupe River, north and northwest of Interstate 880 (I-880), and west of Coyote Creek. Rincon de los Esteros is an established industrial park area, with scattered enclaves of high and medium-high density residential, and a subarea that supports light and heavy industrial uses. The North San Jose Area Development Policy was updated in 2005. It provides for full development of previously adopted base Floor Area Ratio (FAR) caps but also provides additional industrial development capacity for 20 million square feet of transferable floor area credits that can be allocated to specific properties within the Policy area. The Policy supports the conversion of specific sites from industrial to high-density residential, using specific criteria compatible with industrial activity. The Policy also identifies necessary transportation improvements to support new development and establishes an equitable funding mechanism for new development to share the cost of those improvements.

In order to support continued job growth in North San Jose, the Policy provides for the development of up to 32,000 new residential units, including at least 18,650 developed through the conversion of up to 285 acres of existing industrial lands within a Transit/Employment Residential District Overlay area. This residential development is intended to provide housing in close proximity to jobs to allow employees the opportunity to reduce their commute travel times, making increased use of transit facilities, and to reduce overall traffic congestion. The Transit/Employment Residential District (55+ DU/AC) Overlay designation was added to the project site in accordance with the Policy Update recommendations.

The Policy also provides for the development of up to 1.7 million square feet of new commercial uses that support the industrial and residential uses in the Policy area. Supporting commercial uses that would potentially reduce vehicle trips (e.g., food service, financial services, gymnasiums, child care) are strongly encouraged within the Policy area and should be included as part of all new residential development, as feasible. The Policy does not limit the FAR of such uses.

Zoning

The project site is currently zoned IP (Industrial Park District). The project is an application to rezone the site to A(PD) in accordance with the proposed General Development Plan.

Existing Use

The project site is currently industrial park. Previous uses of the site include: agriculture. The proposed project is not a land use presently existing in the surrounding neighborhood (within 500 feet of the project site); however, the Transit/Employment Residential District (55+ DU/AC) Overlay land use designation covers the surrounding area.

Surrounding Uses

Land uses surrounding (within 500 feet of) the project site include: industrial park and mobile home park residential to the north; and industrial park to the east, south and west.

Santa Clara Habitat Conservation Plan / Natural Communities Conservation Plan (HCP/NCCP)

The Planning Agreement for the HCP/NCCP requires that the California Department of Fish and Game (DFG) and other agencies comment on Reportable Interim Projects and recommend mitigation measures or project alternatives that will help achieve the preliminary conservation objectives and not preclude important conservation planning options or connectivity between areas of high habitat value. The project site is within the interim referral area; however, it will not adversely affect natural communities, and no referral is required.

Wireless Telecommunications Facilities

Directional panel antennas for use by Sprint Nextel and T-Mobile personal wireless telecommunications carriers are currently installed on the existing industrial building at the project site.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
9. LAND USE AND PLANNING. Would the project:						
a. Physically divide an established community?				X		25,26,83

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
9. LAND USE AND PLANNING (Cont.). Would the project:						
b. Conflict with any applicable land use plan, policy or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, specific plan, local coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				X		29, 65,83,85
c. Conflict with any applicable habitat conservation plan or natural community conservation plan?				X		25, 26,28,83

Compatibility

The project would change the land use on the site from industrial park to mixed use consisting of high density residential and commercial use in accordance with the General Plan Transit/Employment Residential District (55+ DU/AC) Overlay land use designation. High density residential and commercial mixed use is compatible with the surrounding area where similar high density residential projects are approved or planned in accordance with the North San Jose Area Development Policy to take advantage of the jobs in the area and the adjacent light rail system. Development of the project site would introduce a new building to the area, which would change the view of the site and would generate increases in traffic, noise and air pollution in the area that would not be significant.

Conflict with Applicable Plans, Policies or Regulations

The placement of new residential projects within established industrial neighborhoods may create a potential for conflicts between the two land uses. Residents frequently object to nighttime noise and are more likely to object to very bright outdoor lighting, odors, and outdoor storage. The City has adopted Residential Design Guidelines; all new development in North San Jose will be subject to a design review process that would ensure compliance with the policies set forth in these Guidelines. The proposed project will comply with the City's Guidelines to avoid or reduce land use conflicts between new high-density and very high-density residential development and nearby land uses. There are no industrial uses adjacent to the site; the proposed project will be set back approximately 100 feet from the existing industrial use across Baypointe Parkway to the west.

Santa Clara Habitat Conservation Plan / Natural Communities Conservation Plan (HCP/NCCP)

The project site is not located in an area that is protected by an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or State conservation plan.

Wireless Telecommunications Facilities

Sprint Nextel and T-Mobile directional panel antennas, which are currently installed on the existing industrial building at the project site, are to be relocated to the proposed building. Such facilities are subject to the City's Land Use Policy for Wireless Communication Facilities (Policy 6-20), which provides for the minimization of visual clutter and other land use impacts. Wireless communication antennas are discouraged from all residential land use designations, except those that provide for the integration of commercial and residential uses in an urban setting. Building-mounted antennas should be located to minimize visual impacts and should be architecturally integrated into the structure; it is not appropriate to install antennas for multiple carriers without some form of architectural screening. The height of antennas mounted on top of buildings and the height of new architectural elements designed to camouflage the antennas should be in proportion to the height of the building. Equipment areas should be screened as appropriate, based upon site conditions by new or existing landscape materials or built structures. Building-mounted antennas should be located a minimum of 35 feet horizontally from any adjacent property with a multi-family residential use. Installation of an antenna may, however, be particularly appropriate within or adjacent to higher density mixed-use residential projects that incorporate non-residential uses.

The proposed project is a high density mixed-use residential and commercial development. The antennas are to be installed on the proposed 6-story building within 15-foot-tall enclosures above the roof; they would be mounted 13 feet above the roof, at an effective height of about 78 feet above ground. Equipment areas are to be on the roof within fiberglass enclosures. The antennas will be located at least 35 feet horizontally from the adjacent planned multi-family residential use. All siting details are to be finalized at the PD Permit stage.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Wireless Telecommunications Facilities

- Wireless telecommunications facilities on the site will conform to the City's Land Use Policy for Wireless Communication Facilities (6-20).

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measure, the proposed project would not result in any new or more significant impacts on land use and planning than those addressed in the North San Jose EIR.

10. MINERAL RESOURCES

SETTING

Extractive resources known to exist in and near the Santa Clara Valley include cement, sand, gravel, crushed rock, clay and limestone. Santa Clara County has also supplied a significant portion of the nation's mercury over the past century. Pursuant to the mandate of the Surface Mining and Reclamation Act of 1975 (SMARA), the State Mining and Geology Board has designated the Communications Hill Area, bounded generally by the Southern Pacific Railroad, Curtner Avenue, State Route 87 and Hillsdale Avenue, as the only area in San Jose containing mineral deposits that are of regional significance as a source of construction aggregate materials.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
10. MINERAL RESOURCES. Would the project:						
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X		27, 29,67,83
b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				X		27, 29,67,83

Since the project site is outside of the Communications Hill area, there will be no impact on any known important mineral resource.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

The proposed project would not result in any new or more significant impacts on mineral resources than those addressed in the North San Jose EIR.

11. NOISE

Charles M. Salter Associates, Inc. conducted an environmental noise and ground-borne vibration assessment dated October 16, 2007 that is included in the Technical Appendix.

SETTING

Existing Noise Environment

Noise intrusion over the site originates primarily from vehicular traffic sources on Tasman Drive, which carries a peak hour traffic volume of 1,900 vehicles along the site. Environmental noise at the site is also associated with vehicle traffic on Baypointe Parkway, the adjacent Santa Clara Valley Transportation Authority (VTA) light rail trains and station, and aircraft. The Baypointe VTA light rail station is located in the center of Tasman Drive to the west, and three light rail tracks run down the center of the street adjacent to the site. Light rail trains passing the site generate ground-borne vibration.

ALUC Noise Zone

The project site is not located within an Airport Land Use Commission (ALUC) Noise Zone (65 dB CNEL).

Measurements

Noise

Noise levels are described in terms of the Day-Night Sound Level (DNL), which is the 24-hour noise descriptor used by the City of San Jose to define acceptable noise levels. To obtain the DNL values, long-term 24-hour sound level measurements were made between August 8 and 12, 2007, at the following locations: 1) about 100 feet northerly of the centerline of Tasman Drive; 2) about 40 feet southerly of the centerline of Baypointe Parkway; and 3) the eastern portion of the site (about 275 feet northerly of the centerline of Tasman Drive). Results were compared with measurements conducted at the site in January, 2006. DNL values of 67 dBA at Location No. 1 along Tasman Drive; 63 dBA at the Location No. 2 along Baypointe Parkway; and 60 dBA at Location No. 3 in easterly portion of the site were determined.

Ground-borne Vibration

VTA light rail tracks are located in the center of Tasman Drive, adjacent to the site. Based on the published VTA schedule, approximately 137 trains pass the site each weekday and 126 trains pass by on weekends. Of those trains, approximately 82 percent pass the site during daytime hours (7:00 a.m. to 10:00 p.m.), and 18 percent pass the site at night. Measurements were conducted on August 13, 2007 to quantify typical ground-borne vibration levels from trains. At a distance of about 90 feet from the centerline of Tasman Drive, and about 75 feet north of the nearest rail, measured maximum vibration levels were between 55 and 58 VdB.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
11. NOISE. Would the project result in:						
a. Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				X		26, 68,83,98
b. Exposure of persons to, or generation of, excessive groundborne vibration or groundborne noise levels?				X		25, 27,83,98
c. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				X		25, 26,28,83
d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				X		25, 26,28,83
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X		27,69,83
f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				X		27,69,83

Standards

Noise (Residential)

Noise criteria that apply to the residential portion of the project are the Noise Insulation Standards of the California Code of Regulations, Title 24, and the City of San Jose General Plan. Title 24 is applicable to all new multi-family dwellings.

The Title 24 standards, which utilize the DNL descriptor, establish an exterior reference level of 60 dB and specify that residential buildings to be located within an annual DNL zone of 60 dB or greater require an acoustical analysis. The analysis report must show that the planned buildings provide adequate attenuation to limit intruding noise from exterior sources to an annual DNL of 45 dB in any habitable space.

The City of San Jose General Plan establishes a policy of requiring noise mitigation from transportation noise for residential land use where the exterior level exceeds 60 dB DNL and/or the interior level exceeds 45 dB DNL. It is recognized, however, that attainment of the exterior noise quality levels in the vicinity of San Jose International Airport, the Downtown Core Area and along major roadways may not be achieved within the time frame of the General Plan. In these areas, an exterior noise goal of 65 dB DNL is acceptable where it is not feasible to reduce the exterior noise level to 60 dB DNL. Exterior and interior noise levels and mitigation measures that comply with these San Jose standards would also achieve compliance with the Title 24 standards.

Noise (Commercial)

Noise criteria that apply to the commercial portion of the project are included in the City of San Jose General Plan, which establishes a policy of requiring noise mitigation from transportation noise for commercial land use where the exterior level exceeds 60 dB DNL and/or the interior level exceeds 45 dB DNL.

The City of San Jose General Plan specifies a limit of 55 dB DNL at the property line of residential uses impacted by non-transportation related noise sources, such as commercial uses, trucking, loading area operations and/or mechanical equipment. The General Plan also specifies a limit of 60 dB DNL for transportation noise such as automobile and truck traffic.

Ground-borne Vibration

There are no specific vibration criteria in the City’s General Plan. A document entitled “*Transit Noise and Vibration Impact Assessment*” published by the Federal Transit Administration (FTA) of the U.S. Department of Transportation in May, 2006, provides guidelines for levels of ground-borne vibration due to rail lines adjacent to various land uses. They are frequently used to help assess the compatibility of new projects adjacent to existing rail lines. Ground-borne vibration guidelines provided for frequently used rail corridors are as follows:

- 1. Residences and buildings where people normally sleep 72 VdB
- 2. Institutional land uses with primarily daytime use 75 VdB

The document also states: “*One of the problems in developing suitable criteria for ground-borne vibration is that there has been relatively little research into human response to vibration, in particular, human response to vibration in buildings.*” For reference, the document identifies the threshold of perception for humans to be around 65 VdB.

Regional and Local Impacts

The development of the proposed project would contribute to the significant regional and local noise impacts identified in the North San Jose EIR; however, the proposed project, would not result in any new or more significant regional or local air quality impacts than were described in the EIR.

Exterior Noise Exposures

Project outside use spaces include a third-floor central courtyard and elevated balconies.

Elevated Balconies

Onsite measurements and calculations determined that the maximum DNL for the most impacted dwellings under existing traffic conditions is 60 to 67 dB. To fully assess the impact of traffic noise on the project, future traffic levels must also be considered. Future peak hour volumes on Tasman Drive along the site are projected to increase from the existing 1,900 vehicles to 4,500 vehicles in the year 2020. The future year 2020 noise exposure along Tasman Drive is calculated to increase by 4 dB. As traffic volume data for Baypointe Parkway were not available, a 4 dB increase in traffic noise across the site was applied. Thus, exterior noise levels in elevated balconies around the perimeter of the site would range from 64 to 71 dB DNL. These levels would exceed the City of San Jose policy level and the Title 24 criterion by up to 11 dB.

It likely will not be feasible to meet the City's exterior noise goal of 60 dB DNL at elevated balconies along Tasman Drive without fully enclosing the balconies; however, noise levels for seated persons could be reduced to below 70 dB DNL by incorporating partial-height balcony noise barriers (approximately 42 inches tall).

Central Courtyard

Noise exposures in the central courtyard would be shielded by the units around the perimeter of the building. Exterior noise levels in the central courtyard and on elevated balconies facing the courtyard are expected to be 60 dB DNL or less, which would be consistent with the City's goal for outdoor use spaces.

Interior Noise Exposures

To determine the interior DNL values, a 15 dB attenuation factor was applied to the measured exterior exposures. This factor represents an annual average condition; i.e., assuming that windows with single-strength glass are kept open up to 50 percent of the time for natural ventilation. Interior noise exposures in units around the perimeter of the site would be 49 to 56 dB DNL under projected future (2020) traffic conditions. Thus, interior exposures would be up to 11 dB in excess of the 45 dB interior limit of the General Plan and Title 24. Sound-rated window and door assemblies would be required to reduce interior noise levels to City and State standards.

Equipment Generated Noise

The project should incorporate measures to reduce noise from air-conditioning units and other stationary equipment to acceptable levels. These measures, which may include equipment selection and location and, if necessary, equipment enclosures, would be determined during the design phase.

Operational-Related Noise

The proposed commercial uses would limit their hours of delivery to Monday through Sunday, from 7:00 a.m. to 7:00 p.m. to reduce land use compatibility and noise impacts between proposed residential and commercial/retail uses. The proposed commercial uses would not result in significant noise impacts to the proposed residential uses.

Temporary Construction Noise

During construction, the site preparation and construction phase would generate temporary sound levels ranging from approximately 70 to 90 dBA at 50 foot distances from heavy equipment and vehicles. These construction vehicles and equipment are generally diesel powered, and produce a characteristic noise that is primarily concentrated in the lower frequencies.

The powered equipment and vehicles act as point sources of sound, which would diminish with distance over open terrain at the rate of 6 dBA for each doubling of the distance from the noise source. For example, the 70 to 90 dBA equipment peak noise range at 50 feet would reduce to 64 to 84 dBA at 100 feet, and to 58 to 78 dBA at 200 feet. Therefore, during the construction operations, sound level increases of 20 to 40 dBA due to these sources could occur near the project boundary.

Since construction is carried out in several reasonably discrete phases, each has its own mix of equipment and consequently its own noise characteristics. Generally, the short-term site preparation phase, which requires the use of heavy equipment such as concrete crushers, bulldozers, scrapers, trenchers, trucks, etc., would be the noisiest. The ensuing building construction and equipment installation phases would be quieter and on completion of the project, the area's sound levels would revert essentially to the traffic levels.

Ground-borne Vibration

Maximum vibration levels were between 55 and 58 VdB at a measurement distance of about 90 feet from the centerline of Tasman Drive and about 75 feet north of the nearest rail. The proposed building setback is about 100 feet north of the Tasman Drive centerline. Measured maximum vibration levels were below the threshold of perception for humans (65 VdB), and within the acceptable levels identified in the FTA guidelines for residential and retail uses (72 to 75 VdB). Therefore, no vibration mitigation measures are required.

A disclosure statement should make future residents and tenants aware of the location, schedule and exposure to VTA light rail tracks.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Interior Noise

- Mechanical ventilation will be provided in accordance with Uniform Building Code requirements when windows are to be closed for noise control, to the satisfaction of the Chief Building Inspector.

MITIGATION MEASURES INCLUDED IN THE PROJECT

Exterior Noise

- 42-inch-high solid railings shall be constructed at all elevated balconies along Tasman Drive.

Interior Noise

- Windows and sliding glass doors shall be maintained closed and STC 32 or higher rated windows and doors shall be installed at all unshielded living spaces along Tasman Drive; sound insulation ratings at corner rooms shall be approximately 2 STC points higher.
- Windows and sliding glass doors shall be maintained closed and STC 28 or higher rated windows and doors shall be installed at unshielded living spaces along Baypointe Parkway and on the eastern façade; sound insulation ratings at corner rooms shall be approximately 2 STC points higher.
- All units shall be equipped with forced air ventilation systems to allow the occupants the option of maintaining the windows closed to control noise, and maintain an interior noise level of 45 dB DNL.

Temporary Construction Noise

- Construction activities shall be limited to the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday for any onsite or offsite work within 500 feet of any residential unit. Construction outside of these hours may be approved through a development permit based on a site-specific construction noise mitigation plan and a finding by the Director of Planning, Building and Code Enforcement that the construction noise mitigation plan is adequate to prevent noise disturbance of affected residential uses.
- The contractor shall use “new technology” power construction equipment with state-of-the-art noise shielding and muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical condition to minimize noise created by faulty or poorly maintained engines or other components.
- Stationary noise-generating equipment shall be located as far as possible from sensitive receptors. Staging areas shall be located a minimum of 200 feet from noise-sensitive receptors, such as residential uses.

CONCLUSION

With the implementation of the above standard measure and mitigation measures, the proposed project would not result in any new or more significant noise impacts than those addressed in the North San Jose EIR.

12. POPULATION AND HOUSING

SETTING

The population of the City of San Jose is approximately 904,522 (June, 2005). The project site is located in Census Tract 5050.05, which has a population of approximately 5,914 (2000 Census). There are no housing units currently on the project site.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
12. POPULATION AND HOUSING. Would the project:						
a. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				X		25, 26,28,83
b. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				X		25,26,83
c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				X		25,26,83

The project would not displace any existing housing units. The project would add up to 239 housing units that would add up to approximately 735 people to the City of San Jose, which would not be a substantial increase to the City's population. These new residential units are already accounted for in the North San Jose EIR.

Growth Inducement

Direct growth inducing impacts include the construction of streets and utilities that would provide access to or capacity for additional undeveloped land. The site is bordered by developed industrial park uses. The project would not have a direct growth inducing impact. Indirect growth inducing impacts include increases in population and economic impacts. There would be short-term increases in employment in the construction industry. The project would not have a significant indirect growth inducing impact.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

The proposed project would not result in any new or more significant impacts on population and housing than those addressed in the North San Jose EIR.

13. PUBLIC SERVICES

SETTING

Schools

The project site is in the Santa Clara Unified School District (9-12). Students from the project are expected to attend:

School	Address	Approx. Distance (miles)	Enrollment
Mayne Elementary (K-5)	5030 N. First Street, Alviso	1.9	446
Callejon Elementary (6-8)	4176 Lick Mill Boulevard, Santa Clara	2.0	551 *
Wilcox High	3250 Monroe Street, Santa Clara	5.7	1,823

* Approximately 100+ additional students are projected for the 2007-2008 school year.

Wilcox High School is currently over capacity.

Parks

There is one developed City of San Jose park within walking distance (3/4 mile) of the project site. Moitozo Park is a 5.0-acre neighborhood park located on Rio Robles East between North First Street and Baypointe Parkway. It contains a landscaped green, exercise par course, and picnic areas.

In addition, a "floating park" is indicated on the General Plan Land Use/Transportation Diagram in the general area bounded by Baypointe Parkway, Tasman Drive and Zanker Road, which includes the project site. A "floating park" is indicated where a park is needed, but where either no specific site has yet been identified or where the details of surrounding development have not been finalized. An approximately 5.4-acre future park has been proposed on the north side of Baypointe Parkway, as shown on the preceding Vicinity Map, Figure 3.

Fire Protection

The project site is in the service area of the San Jose Fire Department. The closest fire station is Station No. 29, located at 199 Innovation Drive, approximately 0.8 mile southeasterly of the site. Station 29 has an engine company, a truck company, a battalion chief, and a Hazardous Incident Team (HIT).

Police Protection

The project site is within Beat Building Block (BBB) 43 of the San Jose Police Department's service area. The most frequent calls-for-service in BBB 43 from June 1, 2006 through June 1, 2007 were burglary, vehicle theft, auto burglary, and theft.

Libraries

The project site is served by the San Jose Public Library System. The closest branch library is the Alviso Branch, located at 5050 North First Street, approximately 2.0 miles northwesterly of the site.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
13. PUBLIC SERVICES. Would the project:						
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: Fire protection?				X		83
Police protection?				X		73,83
Schools?				X		5,83
Parks?				X		83
Other Public Facilities?				X		28,83

Schools

Residential

The residential portion of the project would add additional students to the Santa Clara Unified School District. It was estimated in the North San Jose EIR that the buildout of that proposed development would result in approximately 1,829 new students, including 1,112 elementary students, 349 middle school students, and 368 high school students. The North San Jose EIR stated that the total number of students generated from that development assumes the construction of three new elementary schools to accommodate the growth in student population, and that the Santa Clara Unified School District might be able to accommodate the middle and high school students without requiring the construction of new facilities. The North San Jose EIR concludes that the construction of new schools in North San Jose would not necessarily result in significant adverse environmental impacts; supplemental environmental review for new school construction would be required.

The proposed project would generate less than two percent of the students anticipated from the buildout of the development assumed in the North San Jose EIR; therefore, the proposed project would not result in any new or more significant school impacts than were described in the EIR.

The State School Facilities Act provides for school district impactation fees for elementary and high schools and related facilities as a condition of approval to offset the increased demands on school facilities caused by projects. The Santa Clara Unified School District has implemented such a fee. The one-time fee, which is based on the square footage of new habitable residential construction, would be paid prior to the issuance of a building permit.

Commercial

The commercial portion of the project would have no direct impact on schools, but could have a secondary impact should any of the employees move into the district or petition that their child(ren) be accepted into district schools under Allen Bill provisions. The Allen Bill only applies to elementary-aged school children.

The State School Facilities Act provides for school district impactation fees for elementary and high schools and related facilities as a condition of approval to offset the increased demands on school facilities caused by non-residential projects, when a link is found between the new non-residential development and the need for schools. The Santa Clara Unified School District has implemented such a fee. The one-time fee, which is based on the square footage of newly constructed non-residential (commercial and industrial) use, would be paid prior to the issuance of a building permit.

Parks

Residential

The City of San Jose provides parks and recreation facilities within the city. Project residents would increase the demand for public park facilities. There is currently one developed City of San Jose park within the 3/4-mile reasonable walking distance standard. A future park has been proposed on the north side of Baypointe Parkway. One parcel, APN 097-07-029, 2.4 acres, is being acquired for the park by the developer of the adjacent Northpointe project. The developers of this project are working to acquire the adjacent parcel, APN 097-07-030, 3.0 acres, to complete this park.

Recreation facilities planned with the project include a swimming pool on the third floor podium, and a fitness center, multi-purpose club and media room on the ground floor of the building along Tasman Drive.

The City has established a Park Impact Fee Ordinance that requires dedication of land and/or payment of fees for any net increase in residential units to help provide park and recreational facilities in accordance with the Services and Facilities and the Parks and Recreation Goals and Policies of the General Plan. There are currently no plans to dedicate land for park purposes with the project. Fees would be paid to improve park features in the area.

Commercial

The commercial portion of the project is not expected to have an impact on City park and recreation facilities, although employees could utilize them during lunch periods or after work. The City parks in the area are adequate to serve the project employees.

Fire Protection

The project site is in the service area of the San Jose Fire Department. No additional fire personnel or equipment are expected to be necessary to serve the project.

Police Protection

The San Jose Police Department provides police protection for the city. No additional police personnel or equipment are expected to be necessary to serve the project.

Libraries

The San Jose Public Library System provides library services for the city. No additional library personnel or volumes (items) are expected to be necessary to serve the project.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

Schools

- A school impact fee will be paid to the Santa Clara Unified School District to offset the increased demands on school facilities caused by the proposed project, in accordance with California Government Code Section 65996.

Parks

- The project will conform to the City's Park Impact Ordinance (PIO) and Parkland Dedication Ordinance (PDO) (Municipal Code Chapters 14.25 and 19.38, respectively).

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measures, the proposed project would not result in any new or more significant impacts on public services than those addressed in the North San Jose EIR.

14. RECREATION

SETTING

There is one developed City of San Jose park within walking distance (3/4 mile) of the project site. Moitozo Park is a 5.0-acre neighborhood park located on Rio Robles East between North First Street and Baypointe Parkway. It contains a landscaped green, exercise par course, and picnic areas. An approximately 5.4-acre future park has been proposed on the north side of Baypointe Parkway, as shown on the preceding Vicinity Map, Figure 3.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
14. RECREATION.						
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X		70,71,83
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				X		26,28,83

Residential

The City of San Jose provides parks and recreation facilities within the city. Project residents would increase the demand for public park facilities. There is currently one developed City of San Jose park within the 3/4-mile reasonable walking distance standard. A future park has been proposed on the north side of Baypointe Parkway.

Recreation facilities planned with the project include a swimming pool on the third floor podium, and a fitness center, multi-purpose club and media room on the ground floor of the building along Tasman Drive.

Commercial

The commercial portion of the project is not expected to have an impact on City park and recreation facilities, although employees could utilize them during lunch periods or after work. The City parks in the area are adequate to serve the project employees.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

- The project will conform to the City's Park Impact Ordinance (PIO) and Parkland Dedication Ordinance (PDO) (Municipal Code Chapters 14.25 and 19.38, respectively).

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measure, the proposed project would not result in any new or more significant impacts on recreation than those addressed in the North San Jose EIR.

15. TRANSPORTATION / TRAFFIC

Hexagon Transportation Consultants, Inc. conducted a traffic operational analysis dated October 18, 2007 that is included in the Technical Appendix.

SETTING

Street System

Access to the project site is provided by Baypointe Parkway and by Tasman Drive. Baypointe Parkway is a two-lane north-south oriented roadway with a two-way center left-turn lane. Tasman Drive, a major east-west arterial roadway along the southerly site boundary, provides access to SR 237, US 101, I-880, and Downtown San Jose via North First Street to the west. The Alum Rock to Santa Teresa light rail line runs within the median of Tasman Drive. Both Baypointe Parkway and Tasman Drive intersect Zanker Road, a six-lane north-south major arterial roadway, to the east.

Public Transit

Public transit in the project area is provided by the Santa Clara Valley Transportation Authority. Bus routes 33 (Tasman & First to Great Mall/Main Transit Center) and 58 (West Valley College to Alviso), express route 140 (Fremont BART Station to Sunnyvale Caltrain Station) and limited stops route 330 (Almaden Expressway & Camden to North San Jose) operate along Tasman Drive and/or Zanker Road, with stops at North First Street and/or the Baypointe LRT station. The project site is within 2,000 feet of the Baypointe light rail transit station, located at the intersection of Tasman Drive and Baypointe Parkway.

Existing Conditions

Calculations using existing traffic volumes obtained from the City and new traffic counts conducted in March, 2007 indicate that the three nearby intersections (Tasman Drive and Baypointe Parkway, Tasman Drive and Zanker Road, and Zanker Road and Baypointe Parkway) operate at Level of Service (LOS) A/A, D/D and A/A, respectively, during the a.m. and p.m. peak hours, as detailed in the report in the Technical Appendix. Measured against the City of San Jose standards, all of these intersections currently operate at acceptable levels.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
15. TRANSPORTATION / TRAFFIC. Would the project:						
a. Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio of roads, or congestion at intersections)?				X		76,83,99
b. Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?				X		78,83
c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				X		27,28,83
d. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible land uses (e.g., farm equipment)?				X		26, 28,83,99
e. Result in inadequate emergency access?				X		26, 28,83,99
f. Result in inadequate parking capacity?				X		26,28,83
g. Conflict with adopted policies, plans or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?				X		26,29,83

Regional and Local Impacts

The development of the proposed project would contribute to the significant regional and local transportation / traffic impacts identified in the North San Jose EIR; however, the proposed project, would not result in any new or more significant regional or local air quality impacts than were described in the EIR.

Trip Generation

The project traffic generation is estimated in the following table.

Table 8. Project Traffic Generation

Land Use	Size	Trip Rate	Daily Trips	A.M. Peak Hour Trips			P.M. Peak Hour Trips		
				In	Out	Total	In	Out	Total
TH Residential	40 du	7.5	300	11	19	30	19	11	30
Apt. Residential	200 du	6.0	1,200	42	78	120	78	42	120
Specialty Retail	6,000 sf	60.0*	240	3	2	5	10	10	20
<i>Pass-by Reduction</i>							-2	-2	-4
<i>Mixed-Use Internalized Reduction</i>			-42	-1	0	-1	-2	-2	-4
<i>Transit Reduction (Residential only)</i>			<u>-135</u>	<u>-5</u>	<u>-9</u>	<u>-14</u>	<u>-9</u>	<u>-5</u>	<u>-14</u>
Total Net Trips			1,563	52	91	143	101	61	162

*Per 1,000 square feet.

Project Impacts

As previously stated, the project site is located within the North San Jose Area Development Policy (ADP) boundary. All major intersections in the vicinity of the proposed project are covered by the intersection level of service analysis contained in the North San Jose Development Policies Update Draft Program EIR. Only one of the three nearby intersections, Tasman Drive and Zanker Road, was evaluated for level of service in the EIR. The levels of service for the intersection of Tasman Drive and Zanker Road were reported as LOS D and LOS E during the a.m. and p.m. peak hours, respectively, under North San Jose buildout conditions. The other two nearby intersections, Tasman Drive and Baypointe Parkway and Zanker Road and Baypointe Parkway, are minor intersections that would experience much lower traffic volumes and would not have a significant traffic impact.

Since the North San Jose ADP project was found to significantly impact the intersection of Tasman Drive and Zanker Road, improvements were proposed as part of the North San Jose ADP. The improvements, which are planned to be constructed as a City Capital Improvement Program (CIP) project, include widening Zanker Road to six lanes and adding second northbound and southbound left-turn lanes on Tasman Drive. The proposed improvements would not be adequate to improve intersection level of service to acceptable levels; however, since no further improvements are possible, the North San Jose ADP project impact was found to be significant and unavoidable. Improvements to the Tasman Drive and Zanker Road intersection would be necessary with Phase 3 of the North San Jose ADP project; it is not known at this time exactly when Phase 3 will occur.

Operational Issues

The following discussions are on operational issues related to the street system in the project vicinity and access to the project site. While the discussions do indicate that certain improvements are recommended, they are not a result of the project causing substantial safety risks but would improve traffic flow and operations. These issues are not significant impacts within the preceding impacts checklist; therefore, their improvement would not be considered mitigation measures. These issues are to be further addressed and resolved to the satisfaction of the Department of Public Works at the PD Permit stage.

Project Intersection Queuing Analysis

Intersection left-turn movements, to which the project would add traffic, were evaluated to determine whether or not the existing left-turn pockets would be adequate to serve the estimated vehicle queue lengths, as discussed in the report in the Technical Appendix. The analysis incorporated trips generated by this project, as well as the trips from two adjacent and concurrent projects in order to provide a more thorough estimate of the left-turn queuing conditions that would occur under project conditions. The analysis results indicate that, under cumulative project conditions that include the nearby planned projects' trips, the left-turn vehicle storage would be adequate at every left-turn pocket to which the proposed projects would add traffic, with the exception of the northbound left-turn pocket at Zanker Road and Tasman Drive. This left-turn pocket would have a storage inadequacy of 50 feet under cumulative project traffic conditions. The future dual left-turn pocket, which is planned to be constructed as a City CIP project as discussed above, will incorporate ample northbound and southbound left-turn pocket storage; therefore, it can be concluded that the northbound left-turn pocket would have adequate vehicle storage capacity under cumulative traffic conditions. The proposed project would not be required to construct or contribute toward the planned intersection improvements.

Site Access

One full access driveway on the northern portion of the site on Baypointe Parkway and a right-turn only driveway on the southeast portion of the site on Tasman Drive are proposed. The two project driveways would provide access to the two-level parking garage structure. Adequate storage must be provided at all project driveways to: 1) allow exiting vehicles to not block parking stalls, and 2) prevent entering vehicles from making sudden stops (due to vehicles backing out or entering stalls) and spilling back into the public street; a queuing analysis was conducted to estimate the projected maximum queues. Any landscaping and signage along the project frontages should be placed in such a way to ensure an unobstructed view for drivers exiting the site driveways. The current condition of no parking allowed on either Baypointe Parkway or Tasman Drive should be continued.

Planned Paseo Driveway

A new paseo is planned adjacent to the project site on the east. The paseo driveway would provide right-turn-only access to and from Tasman Drive. Since the paseo driveway would be shared with the adjacent property, the total volume from both projects was taken into account for the purpose of calculating the cumulative outbound vehicle queues. As discussed in the report in

the Technical Appendix, the 80-foot throat length of the paseo driveway would be adequate to serve the estimated maximum outbound vehicle queue length (about two vehicles during the a.m. peak hour).

Southeast Garage Access Driveway

The proposed driveway on the southeast portion of the site would provide access to the project's parking garage via the planned paseo. The garage driveway would have a throat width of 21 feet and a throat length of approximately 50 feet. The security gate would remain open during the day to serve guests of the residential development and customers of the retail uses, and would be closed at night. An internal security gate, which would separate the guest/customer parking from the assigned resident parking, would be closed during the day and open at night when the outer gate is closed. The outbound vehicle queue at this driveway is estimated to be only one or two vehicles when the gate is closed. Adequate clearance exists within the garage at this entrance to prevent conflicts between vehicles entering, exiting vehicles, and vehicles maneuvering within the parking garage.

North Garage Access Driveway

A proposed driveway on the northern portion of the site on Baypointe Parkway would also provide full access to the parking garage. This garage entry would be gated and would provide access to project residents only. The garage access driveway would operate with little delay due to the relatively low traffic volumes on Baypointe Parkway. The driveway would have a throat width of 21 feet and a throat length of approximately 60 feet. As detailed in the report in the Technical Appendix, the proposed driveway width meets the City of San Jose standard; and adequate clearance exists within the garage at this entrance to prevent conflicts between vehicles entering, exiting vehicles, and vehicles maneuvering within the parking garage. In addition, as further discussed in the report in the Technical Appendix, the stopping sight distance at the north driveway (approximately 280 feet) would be adequate to provide safe conditions for vehicles traveling northbound on Baypointe Parkway and vehicles exiting the north driveway.

Emergency Vehicle Access

Based on the truck turning template analysis, adequate emergency vehicle access would be provided on Baypointe Parkway and Tasman Drive, and along the 60-foot-wide paseo easement on the east side of the property.

Onsite Vehicle Circulation

A two-level above-grade parking garage is planned for the project site that would be accessed via the two gated garage access driveways discussed above. A single ramp with one lane in each direction would connect the ground level with the second floor level. All parking would be 90-degree spaces; all aisle widths would be 26 feet, which would meet the City's standard.

Both garage levels would contain dead-end drive aisles. In general, dead-ends are undesirable in garages with open parking because drivers can enter the aisle, and upon discovering that there is

no available parking, must either back out or conduct three-point turns. In areas with assigned parking spaces, dead-end aisles typically are not problematic. However, there are parking spaces in each of these dead-end instances that would be very difficult to maneuver in and out of. As detailed in the report in the Technical Appendix, there is a total of 13 problem parking spaces. The parking garage should be redesigned in order to eliminate these types of spaces.

Pedestrian Circulation

There currently is a limited amount of pedestrian activity in this mostly industrial area; however, with the addition of this and other proposed residential development projects, an increase in pedestrian activity in the area is expected. The extensive network of sidewalks in the area would provide residents with a safe connection between the project and other surrounding land uses.

STANDARD REQUIREMENTS INCLUDED IN THE PROJECT

- A traffic impact fee will be paid prior to building permit issuance to be used to fund the mitigation measures needed to meet future traffic conditions resulting from implementation of the North San Jose Area Development Policy.

MITIGATION MEASURES INCLUDED IN THE PROJECT

None required.

CONCLUSION

With the implementation of the above standard measure, the proposed project would not result in any new or more significant transportation / traffic impacts than those addressed in the North San Jose EIR.

16. UTILITIES AND SERVICE SYSTEMS

SETTING

Sanitary Sewers

There are existing 8-inch City of San Jose sanitary sewers in Baypointe Parkway and Tasman Drive. Extensions within the project would be required.

The North San Jose EIR indicates that some of the sanitary sewer facilities in the area are older and that there are constraints in the system that would require upgrading or modification prior to development or redevelopment. Individual projects are to be evaluated and where the capacity is not adequate, improvements to the system will be required. An analysis was done for the "Baypointe & Northpointe Developments" that includes an approximately 50-acre area in and around the Baypointe Parkway, Zanker Road and Tasman Drive triangle. The project site was included in the analysis. The report concludes that there are deficiencies in this area and that replacement of sections of the existing lines in Baypointe Parkway and Tasman Drive is required for development and redevelopment of the area in accordance with the North San Jose Area Development Policy.

Wastewater Treatment

Wastewater treatment for the City of San Jose is provided by the San Jose-Santa Clara Water Pollution Control Plant (WPCP). Capacity is expected to be available to serve the project based on the current capacity of 167 million gallons per day (MGD). The Water Pollution Control Plant is currently operating under a 120 MGD dry weather flow trigger. This requirement is based upon the State Water Resources Board and the Regional Water Quality Control Board (RWQCB) concerns over the effects of additional freshwater discharges on the saltwater marsh habitat, and pollutants loading to the South Bay from the WPCP. A Growth Management System regulates new development to assure that the capacity is not exceeded. There are programs and services in place to help minimize flows to the Plant and, while plans are in place to ensure Plant compliance with the 120 mgd trigger, those plans call for conservation and water recycling as strategies for ongoing compliance.

Water Supply

There are existing 12-inch San Jose Municipal Water System potable water lines in Baypointe Parkway and Tasman Drive. Extensions within the project would be required. Recycled water is used for irrigation purposes when available; the nearest recycled water line is on the south side of the intersection of Tasman Drive and Zanker Road.

Storm Drainage Facilities

There is an existing 30-inch City of San Jose storm drainage line in Baypointe Parkway and a 54-inch City storm drainage line in Tasman Drive. Extensions within the project would be required.

Solid Waste / Recycling

Residential

Residential solid waste disposal service for the project site is provided by the City of San Jose, using Garden City Sanitation, Inc. and/or California Waste Solutions. They are currently using the Newby Island sanitary landfill disposal site operated by International Disposal Company. The landfill area has an estimated service life of 30 years. An unlimited residential recycling program in the City currently results in an approximately 50 percent reduction in residential solid waste that typically required disposal in a landfill.

Commercial

There are several solid waste disposal service companies available for commercial purposes in San Jose. They are using the Newby Island sanitary landfill disposal site and/or the Kirby Canyon disposal site.

Gas and Electric Service

Natural gas and electric services for San Jose are provided by Pacific Gas and Electric Company. There are existing services in the area.

Telephone Service

Residential

Residential telephone service for the project site is provided by AT&T. There is existing service in the area.

Commercial

There are several telephone service providers available for commercial purposes. There is existing service in the area.

IMPACT AND MITIGATION

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
16. UTILITIES AND SERVICE SYSTEMS. Would the project:						
a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				X		80,83
b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				X		28,83,84

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
16. UTILITIES AND SERVICE SYSTEMS (Cont.). Would the project:						
c. Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				X		28,83
d. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				X		28,83,84
e. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				X		28,83
f. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				X		28,83
g. Comply with federal, state and local statutes and regulations related to solid waste?				X		28,83

Sanitary Sewers

Sanitary sewer service for the project site is provided by the City of San Jose. The existing sanitary sewer lines in Baypointe Parkway and Tasman Drive are currently available and adequate to serve the project; however, an analysis for the "Baypointe & Northpointe Developments" determined that there is not enough capacity for full development and redevelopment of the study area, that includes the project site, in accordance with the North San Jose Area Development Policy. Buildout of the area with a minimum of 2,500 residential units requires the following improvements:

- Replacement of 1,271 feet of 8-inch line with 12-inch line in Tasman Drive, from Baypointe Parkway to North First Street.
- Replacement of 676 feet of 8-inch line with 10-inch line in Baypointe Parkway, from Tasman Drive to Zanker Road.
- Replacement of 807 feet of 8-inch line with 10-inch line in Tasman Drive, from Zanker Road to Baypointe Parkway.

The existing 8-inch sanitary sewer main on Tasman Drive has capacity to accommodate up to 400 residential units. When the cumulative number of residential building permits issued for the service area reaches 400, the above improvements will be required to be designed and bonded for via an executed construction agreement prior to issuance of the 401st building permit.

The project will be required to pay a fair share for the construction of the new facilities, including an annual escalation rate of 3.3 percent. The cost must be paid before obtaining Public Works clearance for building permits.

Wastewater Treatment

Wastewater treatment for the City of San Jose is provided by the San Jose-Santa Clara Water Pollution Control Plant.

Residential

The residential portion of the project is estimated to generate an average of approximately 46,000 gallons per day (0.01 MGD) of effluent, based on 85 percent of the water demand. High energy efficiency appliances (e.g., Energy Star Certified clothes washers, dishwashers, etc.) would be provided with the project.

Commercial

The commercial portion of the project is estimated to generate an average of up to approximately 510 gallons per day of effluent, based on 85 percent of the water demand.

Water Supply

Water for the project site is provided by the San Jose Municipal Water System. The existing potable water lines in Baypointe Parkway and Tasman Drive are available and adequate to serve the project. Extensions within the project would be provided.

Recycled water for the project site is available on the south side of the intersection of Tasman Drive and Zanker Road. The extension of recycled water lines is being required with area development. Recycled water will be used for all landscape irrigation.

Residential

The residential portion of the project is estimated to require approximately 54,000 gallons of water per day, based on 225 gallons per unit per day. The project incorporates built-in water savings devices such as shower heads with flow control devices and low flush toilets to reduce water usage.

Commercial

The commercial portion of the project is estimated to require up to approximately 600 gallons of water per day, based on 100 gallons per 1,000 square feet of commercial retail space per day. The project incorporates built-in water savings devices such as low flush toilets to reduce water usage.

Storm Drainage Facilities

An increase in impervious surfaces associated with project development would cause an increase in stormwater runoff. Storm drainage service for the project site is provided by the City of San Jose. The existing storm drainage lines in Baypointe Parkway and Tasman Drive are available and adequate to serve the project. Extensions within the project would be provided. An onsite collection system including curbs, gutters and an underground system would be included in the project.

Solid Waste / Recycling

Residential

Residential solid waste disposal service for the project site is provided by the City of San Jose. The residential portion of the project is estimated to generate up to approximately 400 tons of solid waste per year, based on 3.0 pounds per person per day; however, with recycling, the amount disposed of in a landfill could be reduced to approximately 200 tons per year.

Commercial

There are several solid waste disposal service companies available for commercial purposes in San Jose. The commercial portion of the project is estimated to generate up to approximately 3 tons of solid waste per year, based on 20 pounds per 1,000 square feet per week. This amount could be reduced with recycling.

The project is also subject to mandatory construction and demolition debris recycling. At least 50 percent of the debris generated from the project must be recycled.

Gas and Electric Service

There are existing Pacific Gas and Electric Company gas and electric services in the area that would be extended as required to serve the project. There is sufficient capacity in this utility system to provide adequate project service.

Telephone Service

Residential

There are existing AT&T telephone facilities in the area that would be extended as required to serve the project. There is sufficient capacity in this utility system to provide adequate project service.

Commercial

There are several telephone service providers available for commercial purposes. There is sufficient capacity in these utility systems to provide adequate project service.

MITIGATION MEASURES INCLUDED IN THE PROJECT

Sanitary Sewers

- The project shall pay a fair share of the following improvements:
 - Replacement of 1,271 feet of 8-inch line with 12-inch line in Tasman Drive, from Baypointe Parkway to North First Street.
 - Replacement of 676 feet of 8-inch line with 10-inch line in Baypointe Parkway, from Tasman Drive to Zanker Road.
 - Replacement of 807 feet of 8-inch line with 10-inch line in Tasman Drive, from Zanker Road to Baypointe Parkway.
- The above improvements shall be designed and bonded for via an executed construction agreement prior to issuance of the 401st building permit for the “Baypointe & Northpointe Developments” area.

CONCLUSION

With the implementation of the above mitigation measures, the proposed project would not result in any new or more significant impacts on utilities and service systems than those addressed in the North San Jose EIR.

17. MANDATORY FINDINGS OF SIGNIFICANCE

ISSUES	NEW POTENTIALLY SIGNIFICANT IMPACT	NEW LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED	NEW LESS THAN SIGNIFICANT IMPACT	SAME IMPACT AS "APPROVED PROJECT"	LESS IMPACT THAN "APPROVED PROJECT"	SOURCES
17. MANDATORY FINDINGS OF SIGNIFICANCE.						
a. Does the project have the potential to (1) degrade the quality of the environment, (2) substantially reduce the habitat of a fish or wildlife species, (3) cause a fish or wildlife population to drop below self-sustaining levels, (4) threaten to eliminate a plant or animal community, (5) reduce the number or restrict the range of a rare or endangered plant or animal or (6) eliminate important examples of the major periods of California history or prehistory?				X		83
b. Does the project have impacts that are individually limited, but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects and the effects of other current projects.				X		83
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				X		83

Impact Summary

The North San Jose EIR analyzed the development of 26.7 million square feet of new industrial/office/research and development building space and the addition of 32,000 dwelling units in the Rincon area. Since the approval and certification of the North San Jose EIR in June, 2005, no new development has occurred in the Rincon area that has not already been addressed in the North San Jose EIR. The project proposes to develop up to 239 residential units and up to 6,000 square feet of retail uses. The proposed development is within the amount of development analyzed in the North San Jose EIR. Therefore, the proposed project would not result in new or more significant environmental impacts than those addressed in the North San Jose EIR with implementation of the standard, avoidance, and/or mitigation measures included in the proposed project and described in the specific sections of this Initial Study.

APPENDIX

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Although Mindigo & Associates have used their best efforts to prepare a complete and competent report, Mindigo & Associates shall not be liable for cost or damage to any project due to judicial or administrative action, whether or not such action is based on the form or content of this report or portion prepared by Mindigo & Associates. Any services of staff or subconsultants of Mindigo & Associates required by any party in any litigation on or related to this report shall be paid for by the party requesting such services at the current, standard consulting rates of Mindigo & Associates.

INITIAL STUDY / EIR

DISCLOSURE STATEMENT

APPLICANT Trammell Crow Residential
PROJECT TITLE **166 Baypointe Parkway**
PDC07-080
PROJECT LOCATION Northeasterly quadrant of Tasman Drive and Baypointe Parkway
(166 Baypointe Parkway)

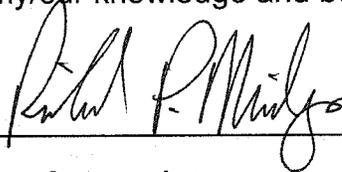
Mindigo & Associates has prepared the above Initial Study or Draft Environmental Impact Report, doing business as:

An Individual

The above-named, now has or will have the following direct or indirect economic interest or interests in the development of, or, after its completion, the operation of the project for which the attached Initial Study or Draft EIR has been submitted:

None, Except Fees For The Preparation Of Environmental Studies

I/We declare, under penalty of perjury, that the statements furnished above pertaining to the environmental effects of a proposed project and to my/our economic interest or interests in that project are complete, true and correct to the best of my/our knowledge and belief.



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In order to achieve maximum objectivity in the Environmental Review process, the City requires persons, including individuals, firms, associations, partnerships, trusts, corporations, or companies, who submit to the City applications for Environmental Clearance, or who submit to the City a proposed Draft EIR, to disclose any economic interest in the project which they have derived or will or might derive from the development of, or, after its completion, the operation of the project. This application shall apply to consultants and subcontracted consultants who prepare all, or portions of, the Environmental Clearance document or the proposed Draft EIR. Each proponent, consultant, and subcontracted consultant shall prepare a disclosure statement as presented in this application.

You have an indirect economic interest in the project if your spouse or dependent child or agent acting on your behalf owns or otherwise has an economic interest in the site upon which the project is to be developed or if your spouse or dependent child or agent acting on your behalf has a present or future economic interest in the development of, or, after its completion, operation of the project. Briefly but specifically describe each of your direct and indirect economic interests in the project. You need but disclose the nature of your economic interest in the project, not the amount of said interest. If you have no interest, simply write "none" in the space provided.

Persons and Organizations Consulted

1. **Brian Pianca**, Trammell Crow Residential
2. **Mike Keaney**, Planner, HMH, Inc.
3. **Dave Yocke**, Civil Engineer, HMH, Inc.
4. **Caleb Gretton**, Planner, Department of Planning, Building and Code Enforcement, City of San Jose
5. **Roger Barnes**, Business Administrator, Santa Clara Unified School District
6. **Nicole Quesada**, Engineer, Municipal Water System Division, City of San Jose
7. **Tim Town**, Civil Engineer, Municipal Water System Division, City of San Jose
8. **Gas and Electrical Mapping Departments**, Pacific Gas and Electric Company

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Consultants' Reports

90. **Results of the Tree Survey Conducted for the Site Located at 166 Baypointe Parkway in San Jose, CA, Live Oak Associates, Inc., September 19, 2007**
91. **Cultural Resources Archival Search for the 166 Baypointe Parkway Project, San Jose, Santa Clara County, California, Holman & Associates, September 28, 2007**
92. **Preliminary Geotechnical Assessment, Baypointe Parkway, San Jose, California, ENGEO Incorporated, January 13, 2006**
93. **Summary of Geotechnical Hazards, Baypointe Parkway, San Jose, California, ENGEO Incorporated, May 31, 2006**
94. **Geotechnical Peer Review, 166 Baypointe Parkway, San Jose, California, Geocon Consultants, Inc., September 12, 2007**
95. **Phase I Environmental Site Assessment, 166 Baypointe Parkway, San Jose, California, Geocon Consultants, Inc., October 2, 2007**
96. **Vicinity Hazardous Materials Users Survey, Proposed 166 Baypointe Parkway Redevelopment Project, San Jose, California, Belinda P. Blackie, PE, REA, February 1, 2008**

97. **Radio Frequency Exposure Report, 166 Baypointe Parkway, San Jose, California,** Hammett & Edison, Inc., February 29, 2008
98. **Environmental Noise and Ground-borne Vibration Assessment, 166 Baypointe Parkway, San Jose, California,** Charles M. Salter Associates, Inc., October 16, 2007
99. **Traffic Operational Analysis, 166 Baypointe Parkway Residential Mixed-Use Development,** Hexagon Transportation Consultants, Inc., October 18, 2007

TECHNICAL APPENDIX

TECHNICAL APPENDIX

Copies of the following consultants' reports, which were prepared for **166 Baypointe Parkway** and are summarized in this Initial Study, are included in this Technical Appendix.

Results of the Tree Survey Conducted for the Site Located at 166 Baypointe Parkway in San Jose, CA, Live Oak Associates, Inc., September 19, 2007

Existing Trees Table

Photographs of Ordinance-Sized Trees

Cultural Resources Archival Search for the 166 Baypointe Parkway Project, San Jose, Santa Clara County, California, Holman & Associates, September 28, 2007

Preliminary Geotechnical Assessment, Baypointe Parkway, San Jose, California, ENGEIO Incorporated, January 13, 2006

Summary of Geotechnical Hazards, Baypointe Parkway, San Jose, California, ENGEIO Incorporated, May 31, 2006

Geotechnical Peer Review, 166 Baypointe Parkway, San Jose, California, Geocon Consultants, Inc., September 12, 2007

Phase I Environmental Site Assessment, 166 Baypointe Parkway, San Jose, California, Geocon Consultants, Inc., October 2, 2007

Vicinity Hazardous Materials Users Survey, Proposed 166 Baypointe Parkway Redevelopment Project, San Jose, California, Belinda P. Blackie, PE, REA, February 1, 2008

Radio Frequency Exposure Report, 166 Baypointe Parkway, San Jose, California, Hammett & Edison, Inc., February 29, 2008

Environmental Noise and Ground-borne Vibration Assessment, 166 Baypointe Parkway, San Jose, California, Charles M. Salter Associates, Inc., October 16, 2007

Traffic Operational Analysis, 166 Baypointe Parkway Residential Mixed-Use Development, Hexagon Transportation Consultants, Inc., October 18, 2007



LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

October 5, 2007

Mr. Richard Mindigo
Mindigo & Associates
1984 The Alameda
San Jose, CA 95126

Subject: Results of the tree survey conducted for the site located at 166 Baypointe Parkway in San Jose, CA (PN 1124-01)

Dear Richard:

Live Oak Associates, Inc. (LOA), conducted a tree survey on the approximately three-acre site located at the northeast corner of Baypointe Parkway and Tasman Drive in San Jose, California. This survey was conducted on April 5, 2006, and September 18, 2007, by LOA biologists Pamela Peterson and Davinna Ohlson and was reviewed on September 19, 2007, by LOA certified arborist Neal Kramer (WE-7833A). The site is currently completely developed with a commercial office building, associated hardscape (e.g., paved parking areas), and mature landscaping.

The City of San Jose has a tree ordinance (Chapters 13.31 and 13.32 of the Municipal Code) regulating the removal of covered trees. The ordinance exists to “promote the health, safety, and welfare of the city by controlling the removal of trees in the city, as trees enhance the scenic beauty of the city, significantly reduce the erosion of topsoil, contribute to increased storm water quality, reduce flood hazards and risks of landslides, increase property values, reduce the cost of construction and maintenance of draining systems through the reduction of flow and the need to divert surface waters, contribute to energy efficiency and the reduction of urban temperatures, serve as windbreaks and are prime oxygen producers and air purification systems.”

An “ordinance tree” is defined as any native or non-native tree with a circumference of 56 inches (diameter of 18 inches) at 24 inches above the natural grade of slope. For multi-trunk trees, the circumference is measured as the sum of the circumferences of all trunks at 24 inches above the natural grade of slope. A tree removal permit is required from the City prior to the removal of any trees covered under the ordinance. Prior to the issuance of a removal permit, the City requires that a formal tree survey be conducted that indicates the number, species, trunk circumference, and location of all trees that will be removed or impacted by the project.

Consistent with the City's ordinance, our survey included recording the species, location, and trunk diameter at 24 inches above the natural grade of slope, as well as assessing the health of each tree occurring on the site. Each surveyed tree was marked with a numbered aluminum tag.

Results of the tree survey are included in Table 1 at the end of this report, and tree locations are depicted in Figure 1. In summary, a total of 108 trees were surveyed, twelve of which were later determined to occur offsite. Three of the 96 trees occurring on the site had a trunk diameter of 18 inches or greater and, thus, meet the criteria of an ordinance-size tree. The three ordinance-size trees were in good health, with a health and vigor rating of 9 or above, and were identified as a coast redwood (*Sequoia sempervirens*; tree #1) and pear (*Pyrus* sp.; trees #77 and #81). Additionally, with the exception of two western sycamores (*Platanus racemosa*; trees #46 and #47) and two pears (trees #84 and #85), all of the non-ordinance-size trees were also in good health.

While coast redwoods, western sycamores and Oregon ashes (*Fraxinus latifolia*) are native to California, these trees have been planted on the site for landscaping purposes, and none would have naturally occurred in upland habitats in the immediate vicinity of the site. Western sycamore and Oregon ash would be expected to be found in riparian woodland habitats in the site's immediate vicinity; therefore, these are indicated as native trees on the tree survey table. As coast redwoods do not occur naturally within the City of San Jose, this species is not indicated as a native species on the survey table. None of the remaining trees on the site are native species.

To date, it is unknown as to which of the surveyed trees are proposed for removal or retention. During the construction and operation phases of the project, impacts to trees that will be retained can be minimized by conforming to the following guidelines:

- The project proponent should retain a consulting arborist prior to any ground disturbance activities. The consulting arborist would develop a tree protection plan outlining specific procedures to ensure that retained trees are protected during the construction phase.
- Prior to any ground disturbance activities, fencing should be installed around the dripline of all retained trees occurring within the development envelope(s), and the fencing should remain in place throughout the construction phase of the project. The type of fencing to be utilized would be at the direction of the consulting arborist.
- Any limb or root pruning to be conducted on retained trees should be approved and supervised by the consulting arborist and should follow best management practices developed by the International Society of Arboriculture.
- Supplemental irrigation to retained trees should be applied as determined by the consulting arborist.

- If any of the retained trees should be damaged during the construction phase, they should be evaluated at the earliest possible time by the consulting arborist so that appropriate measures can be taken to ensure their survival.

If you have any questions regarding our findings, please feel free to contact me at (408) 281-5886 or via e-mail at dohlson@loainc.com.

Sincerely,



Davinna Ohlson, M.S.
Project Manager
Wildlife/Plant Ecologist

Table 1. Results of the tree survey for the site located at 166 Baypointe Parkway in San Jose, California, conducted by LOA on April 5, 2006, and September 18, 2007.

Tree No.	Common Name	Scientific Name	Trunk diameter at 24"	Ordinance Size	Native*	Health**	Comments
1	Coast redwood	<i>Sequoia sempervirens</i>	19	Y	N	10	
2	Coast redwood	<i>Sequoia sempervirens</i>	4	N	N	9	
3	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
4	Western sycamore	<i>Platanus racemosa</i>	4	N	Y	9	
5	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
6	Western sycamore	<i>Platanus racemosa</i>	4	N	Y	9	
7	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
8	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
9	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
10	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
11	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
12	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
13	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
14	Western sycamore	<i>Platanus racemosa</i>	4	N	Y	9	
15	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
16	Western sycamore	<i>Platanus racemosa</i>	6	N	Y	9	
17	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
18	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
19	Western sycamore	<i>Platanus racemosa</i>	5	N	Y	9	
20	Oregon ash	<i>Fraxinus latifolia</i>	10	N	Y	9	
21	Oregon ash	<i>Fraxinus latifolia</i>	13	N	Y	9	
22	Oregon ash	<i>Fraxinus latifolia</i>	15	N	Y	9	
23	Sweetgum	<i>Liquidambar styraciflua</i>	6	N	N	9	
24	Sweetgum	<i>Liquidambar styraciflua</i>	6	N	N	9	
25	Sweetgum	<i>Liquidambar styraciflua</i>	6	N	N	9	
26	Sweetgum	<i>Liquidambar styraciflua</i>	6	N	N	9	
27	Oregon ash	<i>Fraxinus latifolia</i>	11	N	Y	9	
28	Oregon ash	<i>Fraxinus latifolia</i>	13	N	Y	9	
29	Sweetgum	<i>Liquidambar styraciflua</i>	6	N	N	9	
30	Sweetgum	<i>Liquidambar styraciflua</i>	7	N	N	9	
31	Sweetgum	<i>Liquidambar styraciflua</i>	7	N	N	9	
32	Sweetgum	<i>Liquidambar styraciflua</i>	9	N	N	9	
33	White alder	<i>Alnus rhombifolia</i>	15	N	N	9	
34	White alder	<i>Alnus rhombifolia</i>	13	N	N	9	
35	Oregon ash	<i>Fraxinus latifolia</i>	15	N	Y	9	
36	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y	9	
37	Oregon ash	<i>Fraxinus latifolia</i>	10	N	Y	9	
38	Western sycamore	<i>Platanus racemosa</i>	11	N	Y	9	
39	Western sycamore	<i>Platanus racemosa</i>	11	N	Y	9	
40	Western sycamore	<i>Platanus racemosa</i>	11	N	Y	9	
41	Western sycamore	<i>Platanus racemosa</i>	11	N	Y	9	
42	Western sycamore	<i>Platanus racemosa</i>	14	N	Y	9	
43	Western sycamore	<i>Platanus racemosa</i>	10	N	Y	9	
44	Western sycamore	<i>Platanus racemosa</i>	12	N	Y	9	
45	Western sycamore	<i>Platanus racemosa</i>	11	N	Y	9	
46	Western sycamore	<i>Platanus racemosa</i>	14	N	Y	5	

Table 1. Results of the tree survey for the site located at 166 Baypointe Parkway in San Jose, California, conducted by LOA on April 5, 2006, and September 18, 2007.

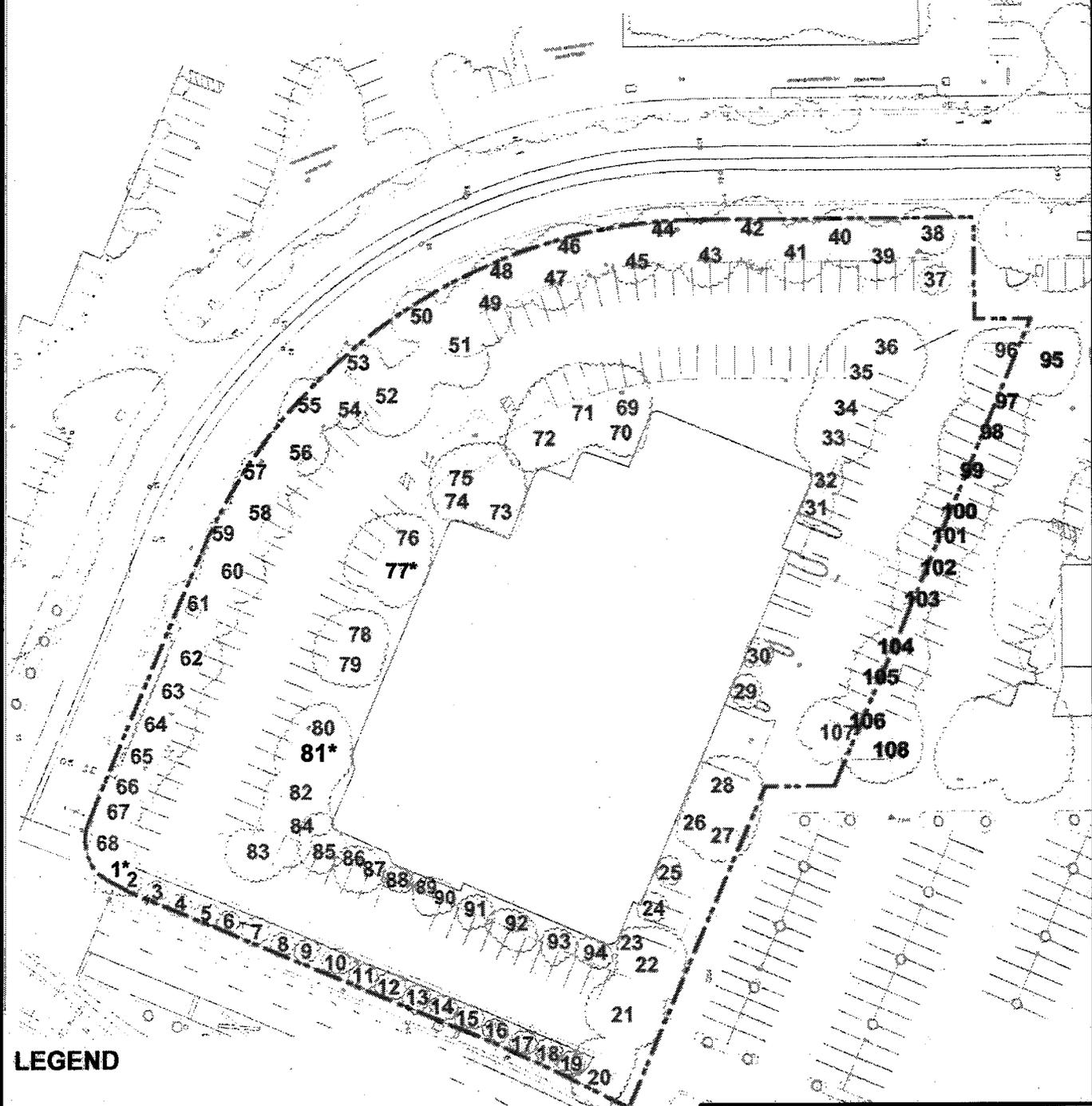
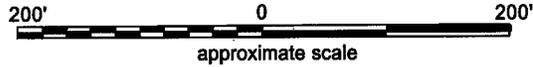
Tree No.	Common Name	Scientific Name	Trunk diameter at 24"	Ordinance Size	Native*	Health**	Comments
47	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		5
48	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
49	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
50	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
51	Oregon ash	<i>Fraxinus latifolia</i>	14	N	Y		9
52	Oregon ash	<i>Fraxinus latifolia</i>	12	N	Y		9
53	Western sycamore	<i>Platanus racemosa</i>	12	N	Y		9
54	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
55	Western sycamore	<i>Platanus racemosa</i>	12	N	Y		9
56	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
57	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
58	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
59	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
60	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
61	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
62	Pear	<i>Pyrus sp.</i>	17	N	N		9
63	Pear	<i>Pyrus sp.</i>	15	N	N		9
64	Pear	<i>Pyrus sp.</i>	15	N	N		9
65	Pear	<i>Pyrus sp.</i>	15	N	N		9
66	Western sycamore	<i>Platanus racemosa</i>	11	N	Y		9
67	Western sycamore	<i>Platanus racemosa</i>	10	N	Y		9
68	Coast redwood	<i>Sequoia sempervirens</i>	4	N	N		9
69	Pear	<i>Pyrus sp.</i>	15	N	N		9
70	Pear	<i>Pyrus sp.</i>	17	N	N		9
71	Pear	<i>Pyrus sp.</i>	17	N	N		9
72	Pear	<i>Pyrus sp.</i>	16	N	N		9
73	Pear	<i>Pyrus sp.</i>	13	N	N		9
74	Pear	<i>Pyrus sp.</i>	12	N	N		9
75	Pear	<i>Pyrus sp.</i>	16	N	N		9
76	Pear	<i>Pyrus sp.</i>	5	N	N		9
77	Pear	<i>Pyrus sp.</i>	19	Y	N		9
78	Pear	<i>Pyrus sp.</i>	17	N	N		9
79	Pear	<i>Pyrus sp.</i>	7	N	N		9
80	Pear	<i>Pyrus sp.</i>	5	N	N		9
81	Pear	<i>Pyrus sp.</i>	18	Y	N		9
82	Pear	<i>Pyrus sp.</i>	6	N	N		9
83	Oregon ash	<i>Fraxinus latifolia</i>	12	N	Y		9
84	Pear	<i>Pyrus sp.</i>	17	N	N		5
85	Pear	<i>Pyrus sp.</i>	15	N	N		5
86	Pear	<i>Pyrus sp.</i>	13	N	N		9
87	Sweetgum	<i>Liquidambar styraciflua</i>	4	N	N		9
88	Sweetgum	<i>Liquidambar styraciflua</i>	7	N	N		9
89	Sweetgum	<i>Liquidambar styraciflua</i>	9	N	N		9
90	Sweetgum	<i>Liquidambar styraciflua</i>	8	N	N		9
91	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y		9
92	Pear	<i>Pyrus sp.</i>	15	N	N		9

Table 1. Results of the tree survey for the site located at 166 Baypointe Parkway in San Jose, California, conducted by LOA on April 5, 2006, and September 18, 2007.

Tree No.	Common Name	Scientific Name	Trunk diameter at 24"	Ordinance Size	Native*	Health**	Comments
93	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y	9	
94	Pear	<i>Pyrus</i> sp.	11	N	N	9	
95	Oregon ash	<i>Fraxinus latifolia</i>	11	N	Y	9	Offsite
96	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y	9	
97	Oregon ash	<i>Fraxinus latifolia</i>	9	N	Y	9	Offsite
98	Oregon ash	<i>Fraxinus latifolia</i>	12	N	Y	9	Offsite
99	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y	9	Offsite
100	Oregon ash	<i>Fraxinus latifolia</i>	13	N	Y	9	Offsite
101	Oregon ash	<i>Fraxinus latifolia</i>	11	N	Y	9	Offsite
102	Oregon ash	<i>Fraxinus latifolia</i>	10	N	Y	9	Offsite
103	Oregon ash	<i>Fraxinus latifolia</i>	5	N	Y	9	Offsite
104	Oregon ash	<i>Fraxinus latifolia</i>	10	N	Y	9	Offsite
105	Oregon ash	<i>Fraxinus latifolia</i>	8	N	Y	9	Offsite
106	Oregon ash	<i>Fraxinus latifolia</i>	11	N	Y	9	Offsite
107	Oregon ash	<i>Fraxinus latifolia</i>	7	N	Y	9	
108	Oregon ash	<i>Fraxinus latifolia</i>	11	N	Y	9	Offsite

*Trees native to the project vicinity but planted as landscape trees

**Health: High = 7-10 = 70-100% healthy foliage, Medium = 4-6 = 40-69% healthy foliage, Low = 2-3 = 1-39% healthy foliage, Dead = 1



LEGEND



Project Boundary



Tree and Tree Number
(red numbers indicate off-site trees)

1*, 77*, & 81* Ordinance Size Trees

Sources:

Base Map courtesy of : Finn Brothers Construction, Inc. San Jose, CA



Live Oak Associates, Inc.

166 Baypointe Parkway
Tree Survey

Date	Project #	Figure #
9/13/07	1124-01	1

Existing Trees

No.	Scientific Name	Common Name	Diameter * (inches)	General Condition	Native Tree	To Be Removed
1.	<i>Sequoia sempervirens</i>	Coast Redwood	19	Good		X
2.	<i>Sequoia sempervirens</i>	Coast Redwood	4	Good		X
3.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
4.	<i>Platanus racemosa</i>	Western Sycamore	4	Good	Y	X
5.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
6.	<i>Platanus racemosa</i>	Western Sycamore	4	Good	Y	X
7.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
8.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
9.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
10.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
11.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
12.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
13.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
14.	<i>Platanus racemosa</i>	Western Sycamore	4	Good	Y	X
15.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
16.	<i>Platanus racemosa</i>	Western Sycamore	6	Good	Y	X
17.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
18.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
19.	<i>Platanus racemosa</i>	Western Sycamore	5	Good	Y	X
20.	<i>Fraxinus latifolia</i>	Oregon Ash	10	Good	Y	X
21.	<i>Fraxinus latifolia</i>	Oregon Ash	13	Good	Y	X
22.	<i>Fraxinus latifolia</i>	Oregon Ash	15	Good	Y	X
23.	<i>Liquidambar styraciflua</i>	Sweetgum	6	Good		X
24.	<i>Liquidambar styraciflua</i>	Sweetgum	6	Good		X
25.	<i>Liquidambar styraciflua</i>	Sweetgum	6	Good		X
26.	<i>Liquidambar styraciflua</i>	Sweetgum	6	Good		X
27.	<i>Fraxinus latifolia</i>	Oregon Ash	11	Good	Y	X
28.	<i>Fraxinus latifolia</i>	Oregon Ash	13	Good	Y	X
29.	<i>Liquidambar styraciflua</i>	Sweetgum	6	Good		X
30.	<i>Liquidambar styraciflua</i>	Sweetgum	7	Good		X
31.	<i>Liquidambar styraciflua</i>	Sweetgum	7	Good		X
32.	<i>Liquidambar styraciflua</i>	Sweetgum	9	Good		X
33.	<i>Alnus rhombifolia</i>	White Alder	15	Good		X
34.	<i>Alnus rhombifolia</i>	White Alder	13	Good		X
35.	<i>Fraxinus latifolia</i>	Oregon Ash	15	Good	Y	X
36.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	X
37.	<i>Fraxinus latifolia</i>	Oregon Ash	10	Good	Y	X

continued

Existing Trees (Cont.)

No.	Scientific Name	Common Name	Diameter * (inches)	General Condition	Native Tree	To Be Removed
38.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
39.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
40.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
41.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
42.	<i>Platanus racemosa</i>	Western Sycamore	14	Good	Y	X
43.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
44.	<i>Platanus racemosa</i>	Western Sycamore	12	Good	Y	X
45.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
46.	<i>Platanus racemosa</i>	Western Sycamore	14	Fair	Y	X
47.	<i>Platanus racemosa</i>	Western Sycamore	11	Fair	Y	X
48.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
49.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
50.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
51.	<i>Fraxinus latifolia</i>	Oregon Ash	14	Good	Y	X
52.	<i>Fraxinus latifolia</i>	Oregon Ash	12	Good	Y	X
53.	<i>Platanus racemosa</i>	Western Sycamore	12	Good	Y	X
54.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
55.	<i>Platanus racemosa</i>	Western Sycamore	12	Good	Y	X
56.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
57.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
58.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
59.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
60.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
61.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
62.	<i>Pyrus</i> sp.	Pear	17	Good		X
63.	<i>Pyrus</i> sp.	Pear	15	Good		X
64.	<i>Pyrus</i> sp.	Pear	15	Good		X
65.	<i>Pyrus</i> sp.	Pear	15	Good		X
66.	<i>Platanus racemosa</i>	Western Sycamore	11	Good	Y	X
67.	<i>Platanus racemosa</i>	Western Sycamore	10	Good	Y	X
68.	<i>Sequoia sempervirens</i>	Coast Redwood	4	Good		X
69.	<i>Pyrus</i> sp.	Pear	15	Good		X
70.	<i>Pyrus</i> sp.	Pear	17	Good		X
71.	<i>Pyrus</i> sp.	Pear	17	Good		X
72.	<i>Pyrus</i> sp.	Pear	16	Good		X
73.	<i>Pyrus</i> sp.	Pear	13	Good		X
74.	<i>Pyrus</i> sp.	Pear	12	Good		X

continued

Existing Trees (Cont.)

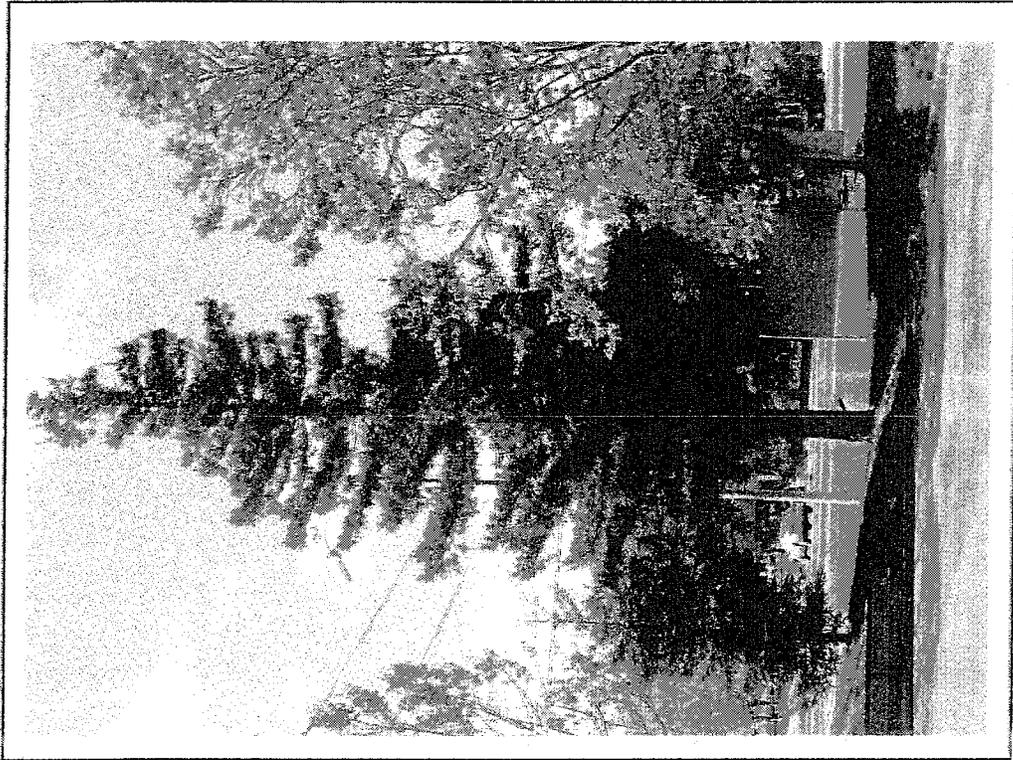
No.	Scientific Name	Common Name	Diameter * (inches)	General Condition	Native Tree	To Be Removed
75.	<i>Pyrus</i> sp.	Pear	16	Good		X
76.	<i>Pyrus</i> sp.	Pear	5	Good		X
77.	<i>Pyrus</i> sp.	Pear	19	Good		X
78.	<i>Pyrus</i> sp.	Pear	17	Good		X
79.	<i>Pyrus</i> sp.	Pear	7	Good		X
80.	<i>Pyrus</i> sp.	Pear	5	Good		X
81.	<i>Pyrus</i> sp.	Pear	18	Good		X
82.	<i>Pyrus</i> sp.	Pear	6	Good		X
83.	<i>Fraxinus latifolia</i>	Oregon Ash	12	Good	Y	X
84.	<i>Pyrus</i> sp.	Pear	17	Fair		X
85.	<i>Pyrus</i> sp.	Pear	15	Fair		X
86.	<i>Pyrus</i> sp.	Pear	13	Good		X
87.	<i>Liquidambar styraciflua</i>	Sweetgum	4	Good		X
88.	<i>Liquidambar styraciflua</i>	Sweetgum	7	Good		X
89.	<i>Liquidambar styraciflua</i>	Sweetgum	9	Good		X
90.	<i>Liquidambar styraciflua</i>	Sweetgum	8	Good		X
91.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	X
92.	<i>Pyrus</i> sp.	Pear	15	Good		X
93.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	X
94.	<i>Pyrus</i> sp.	Pear	11	Good		X
96.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	X
107.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	X
Offsite						
95.	<i>Fraxinus latifolia</i>	Oregon Ash	11	Good	Y	
97.	<i>Fraxinus latifolia</i>	Oregon Ash	9	Good	Y	
98.	<i>Fraxinus latifolia</i>	Oregon Ash	12	Good	Y	
99.	<i>Fraxinus latifolia</i>	Oregon Ash	7	Good	Y	
100.	<i>Fraxinus latifolia</i>	Oregon Ash	13	Good	Y	
101.	<i>Fraxinus latifolia</i>	Oregon Ash	11	Good	Y	
102.	<i>Fraxinus latifolia</i>	Oregon Ash	10	Good	Y	
103.	<i>Fraxinus latifolia</i>	Oregon Ash	5	Good	Y	
104.	<i>Fraxinus latifolia</i>	Oregon Ash	10	Good	Y	
105.	<i>Fraxinus latifolia</i>	Oregon Ash	8	Good	Y	
106.	<i>Fraxinus latifolia</i>	Oregon Ash	11	Good	Y	
108.	<i>Fraxinus latifolia</i>	Oregon Ash	11	Good	Y	

Note: Ordinance-sized trees are shown in **bold**.

* Diameter at 2 feet above ground.

Y = Native Tree.

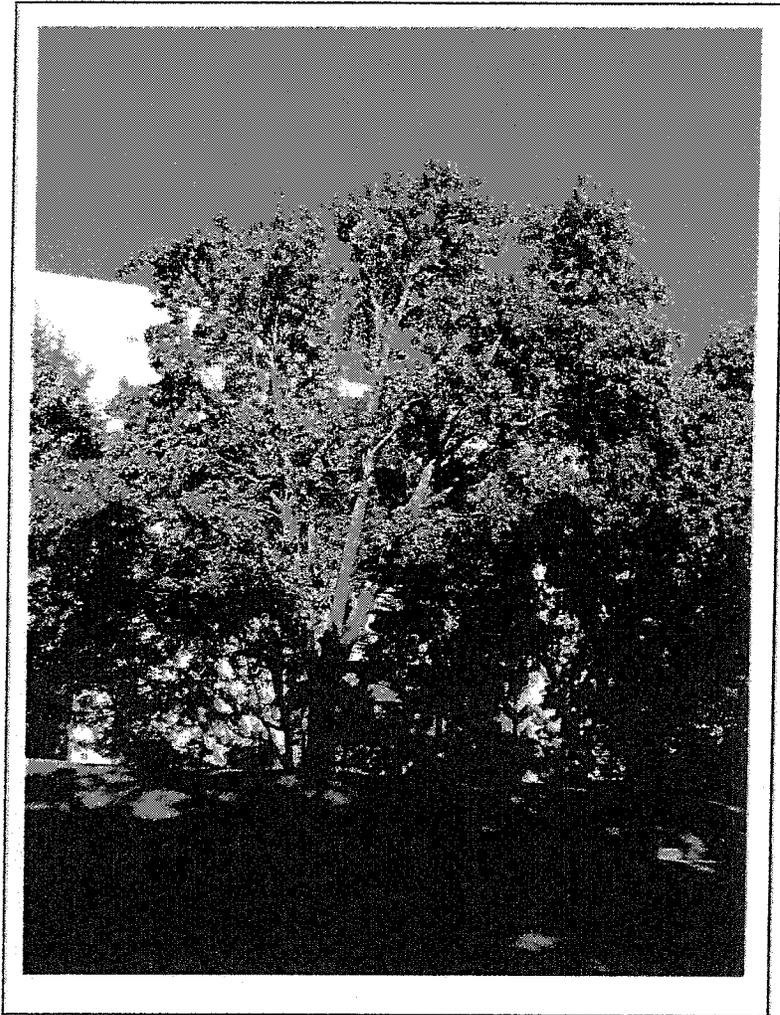
X = To be Removed.



Tree No. 1 – 19-inch diameter Coast Redwood



Tree No. 77 – 19-inch diameter Pear



Tree No. 81 – 18-inch diameter Pear

Ordinance-Sized Trees

October 2, 2007

2 of 2



holman & ASSOCIATES
Archaeological Consultants
"SINCE THE BEGINNING"

3615 FOLSOM ST. SAN FRANCISCO,
CALIFORNIA 94110 415/550-7286

Richard Mindigo
Mindigo & Associates
1984 The Alameda
San Jose, CA 95126

September 28, 2007

Dear Mr. Mindigo:

RE: CULTURAL RESOURCES ARCHIVAL SEARCH FOR THE 166 BAYPOINTE
PARKWAY PROJECT, SAN JOSE, SANTA CLARA COUNTY, CALIFORNIA

At your request I have completed an archival search for the above referenced project at the Northwest Information Center (NWIC file no. 05-1180) to determine if future construction at this location would have an effect on prehistoric and/or historic cultural resources. Specifically you stated that the existing structure on the property was to be torn down, and that new residential units would be constructed. There would be some subsurface excavation for demolition, new foundations and utility connections. The existing structure was built in the 1980s, and there appeared to be no information at the City of San Jose regarding any previous archaeological studies of the area which might have been done for that project.

I completed the new literature review on June 2, 2006. There have been a total of two studies done for this project area since the 1970s, which are summarized below:

In 1976 Joseph Winter completed an archaeological study of the Dorcich development, a 77.5 acre parcel which included all of the existing project area; no cultural resources were discovered at the time. Subsequently a cultural resources assessment was done in 1997 by Basin Research Associates for the Rincon de los Esteros development area; again there was no report of cultural resources inside the Baypointe Towers development envelope.

The files did not contain any report of subsequent archaeological studies of the Dorcich property, and/or specifically of the development which was placed at the Baypointe site in the early 1980s. I suspect that this is the result of the negative findings of the 1976 Winter report: the specific development at the Baypointe project area did not require archaeological monitoring. It can only be assumed that the actual construction at this site did not turn up archaeological materials which required further research or mitigation.

The question remains as to whether or not the proposed project has the potential for

containing buried archaeological resources which might not have been damaged by the existing structures on the property. It has been an assumption of the archaeological community that the area, bordered by the Guadalupe River and Coyote Creek should contain prehistoric sites buried under alluvial deposits of several feet or more, and opinion which has not been born out by the archaeological record: the Northwest Information Center does not have any record of the discovery of archaeological materials found during construction projects in the general vicinity of Agnews Hospital over the past 25 years.

It is my opinion that the proposed 166 Baypointe Parkway construction, which requires excavation for demolition, foundations and utilities, could encounter buried archaeological resources which were not disturbed by the existing building when it was constructed. It is the recommendation of this report that a qualified archaeologist be retained to inspect the site for cultural deposits after the site has been cleared of all buildings, foundations and other improvements. Removal of foundations and utilities should allow an adequate inspection of the subsurface soils, thus eliminating the need to conduct a program of mechanical subsurface testing.

In the event that intact archaeological deposits are identified inside the project area, it will be the responsibility of the project archaeologist to submit a proposal for the evaluation of the resources to the San Jose Planning Department for approval. If evaluative testing demonstrates that the area of impact contains a resource deposit eligible for inclusion on the California Register of Historic Resources, a plan for mitigation of impacts to the resource should be approved by the City Planning Department before any further excavation is allowed inside the area of archaeological sensitivity. Mitigation can take the form of archaeological monitoring of all subsequent soils removal, coupled with limited data retrieval of materials through a program of hand excavation.

Sincerely,



Miley Paul Holman
Holman & Associates

REFERENCES CITED

Basin Research Associates

1997 CULTURAL RESOURCES ASSESSMENT, RINCON DE LOS ESTEROS AREA NORTH SAN JOSE ENVIRONMENTAL IMPACT REPORT CITY OF SAN JOSE, SANTA CLARA COUNTY, CALIFORNIA. On file, Northwest Information Center (NWIC) S-21169

Winter, Joseph

1976 Archaeological Resources and Impact Assessment of the Dorcich Development, Santa Clara County, California. On file, Northwest Information Center (NWIC) S-4242

**PRELIMINARY
GEOTECHNICAL ASSESSMENT**

BAYPOINTE PARKWAY

SAN JOSE, CALIFORNIA

SUBMITTED

TO

PINN BROTHERS CONSTRUCTION, INC.

SAN JOSE, CALIFORNIA

PREPARED

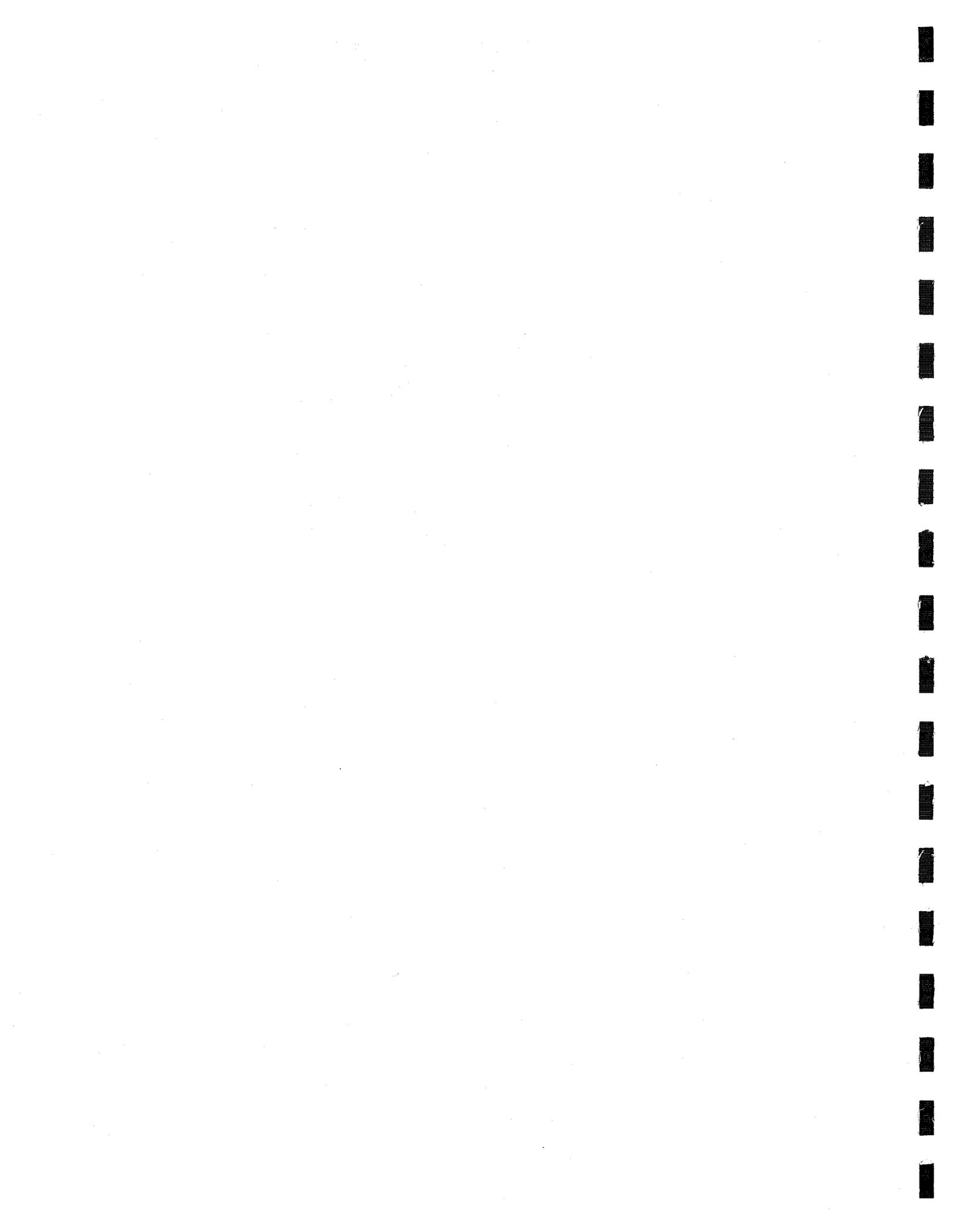
BY

ENGEO INCORPORATED

PROJECT NO. 7123.3.001.01

JANUARY 13, 2006

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Project No.
7123.3.001.01

January 13, 2006

Mr. John Moniz
Pinn Brothers Construction, Inc.
1475 Saratoga Avenue, Suite 250
San Jose, CA 95129

Subject: Baypointe Parkway
APN 097-07-46, 097-07-47 and 097-07-72
San Jose, California

PRELIMINARY GEOTECHNICAL ASSESSMENT

Dear Mr. Moniz:

With your authorization and as part of due diligence, we performed a preliminary geotechnical assessment for the Baypointe Parkway site located in San Jose, California. Our geotechnical observations, as well as our preliminary conclusions and recommendations, are presented in this report. We have also provided preliminary site grading, drainage, and foundation recommendations for use during land planning.

Based upon our initial assessment, it is our opinion that a residential development is feasible from a geotechnical standpoint. Design-level exploration(s) should be conducted prior to site development once more detailed land plans have been prepared. Concurrently and presented under separate cover, ENGEO performed a modified environmental site assessment for the subject site.

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions regarding the contents of this report, please do not hesitate to contact us.

Very truly yours,

ENGEO INCORPORATED


Anthony A. Schuetze
aas/jam/reviewed by pcg/jf:pgex

Reviewed by:

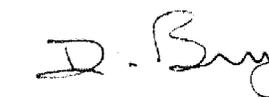

Julia A. Moriarty,





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APPENDIX B – ENGEO Incorporated, Liquefaction Analysis Spreadsheets

INTRODUCTION

Purpose and Scope

The purpose of this preliminary geotechnical assessment, as described in our proposal dated November 16, 2005, is to identify geotechnical constraints that would affect site planning decisions and development. The scope of our services included a review of readily available literature and geologic maps for the project area; a site reconnaissance; a limited subsurface exploration using cone penetrometer test (CPT) probes; analysis of the gathered geotechnical data; and preparation of this report. An additional parcel was added to the project scope since the above dated proposal.

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Site Location and Description

The subject L-shaped site borders the southeastern side of Baypointe Parkway between Tasman Avenue and Zanker Road in San Jose, California (Figure 1). In particular, the 11.4-acre property is bounded by Baypointe Parkway to the north and west, Tasman Avenue to the south, and Zanker Road to the east. A 2004 aerial photograph depicts the current building configurations and site plan (Figure 2).

The site is composed of three parcels, Assessor's Parcel Numbers (APN) 097-07-46, 097-07-47 and 097-07-72. The property currently consists of one commercial office building with surrounding parking located at 166 Baypointe Parkway (APN 097-07-72) and one commercial office building with surrounding parking located at 210 Baypointe Parkway (APN 097-07-47). APN 097-07-47 is

currently a vacant lot containing seasonal grasses. Review of historical aerial photographs and topographic maps reveal that the site has been used as agriculture land prior to its current condition. The site is surrounded by existing light industrial and commercial office buildings.

A 1998 topographic map of the area shows the site gently sloping to the northwest, and situated at an approximate elevation of 12 feet above sea level. The existing Coyote Creek is roughly ½ mile east of the site, while the existing Guadalupe River is located roughly ½ mile west of the site, and it appears as though the City and County of San Francisco Aqueduct is roughly 400 feet to the south. The subject site conforms to adjacent landscape with a general slope to the northwest.

Proposed Development

A development concept and conceptual land plan is not available; however, we understand that a multi-family residential development comprising podium-style construction is being considered. As currently envisioned, the structures will include four stores of residential space above a single level of parking. The parking level will be partially buried. Therefore, building loads are anticipated to be moderate.

SITE GEOLOGY AND SEISMICITY

Regional and Site Geology

Regional geologic maps locate the site in the broad, north-south trending, alluvial-filled Santa Clara Valley. Wentworth, et al. (1999) has mapped the soils at the site as Holocene-age basin deposits (Qhb), composed of very fine silty clay to clay (Figure 3). CDMG (1974) has mapped the soils at the property as fluvial deposits at outer edge of alluvial fans (Qyfl), similarly composed of fine-grained sand, silt and clay with the deposits in excess of 500 feet thick. The western edge of the site borders interfluvial freshwater basin deposits (Qb) composed of organic clay and silty clay.

Site Seismicity

The site is not located within a State of California Earthquake Fault Hazard Zone (1982), nor within a City of San Jose Fault Hazard Zone (1983); however, a concealed, queried splay of the potentially active Silver Creek fault is shown to cross through the site on the City of San Jose Fault Hazard Zone (1983) map, CDMG (1974), and fault mapping by Jennings (1994). This feature is not zoned as requiring further study by the State of California or City of San Jose.

The site is also not located within a Santa Clara County Geologic Hazard Zones (2002) for Fault Rupture Hazard (Figure 4). However, the site is located within a State of California Seismic Hazard Zone (2004) for Liquefaction Hazard (Milpitas Quadrangle) (Figure 5).

The nearest known active¹ fault surface trace is the Hayward fault. The Hayward Fault (southeast extension) is mapped about 4.4 miles northeast of the site; the Hayward Fault (main trace) is mapped about 6.8 miles northeast of the site; and the Monte Vista-Shannon fault is located roughly

¹ An active fault is defined by the State Mining and Geology Board as one that has had surface displacement within Holocene time (about the last 10,000 years) (Hart, 1997). The State of California has prepared maps designating zones for special studies that contain these active earthquake faults.

10 miles southwest of the site. As noted above, a concealed, queried splay of the potentially active Silver Creek fault is shown to cross through the site; however, as noted above, the fault is not zoned as requiring further study by the State of California or City of San Jose.

Because of the presence of nearby active faults, the Bay Area Region is considered seismically active. Numerous small earthquakes occur every year in the region, and large (>M7) earthquakes have been recorded and can be expected to occur in the future. Figure 6 shows the approximate locations of these faults and significant historic earthquakes recorded within the Greater Bay Area Region.

FIELD EXPLORATIONField Exploration

The preliminary field exploration for this study was conducted on December 23, 2005, and consisted of advancing five cone penetrometer test (CPT) probes at the approximate locations shown on Figure 2. The CPT probes were extended to depths ranging from 58 to 80 feet below the existing ground surface (bgs). The CPT locations were established by taping and visual sighting from existing features and should be considered accurately located only to the degree implied by the method used. The locations were selected in areas that would minimize impact to existing improvements.

The CPT equipment used was equipped with a 20-ton compression-type cone with a 15-square-centimeter (cm²) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 225 cm². The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with revised (2002) ASTM standards (D-5778-95). Measurements include the tip resistance to penetration of the cone (Qc), the resistance of the surface sleeve (Fs), and dynamic pore pressure (U) (Robertson and Campanella, 1988). The CPT logs and supporting empirical data are located in Appendix A.

A water level indicator instrument was used upon removal of the probes to record groundwater levels, if encountered. The CPT holes were backfilled with cement-bentonite grout on the day of the field exploration activities. No soil samples were collected as part of this study due to the exploration method implemented.

Subsurface Stratigraphy

According to empirical correlations of the CPT data, the probes generally encountered medium stiff to hard clay overlying medium dense to dense sands with interbedded clay, silt, gravel and over-consolidated material to the maximum depths explored (58 to 80 feet bgs). In general, the clay was encountered predominantly above a depth of 25 to 32 feet bgs. However, Probe CPT-1 encountered a 10-foot-thick layer of clay starting at a depth of roughly 70 feet bgs to the base of the probe; CPT-3 encountered a 7-foot-thick layer of clay starting at a depth of roughly 34 feet bgs; and CPT-5 encountered a 15-foot-thick layer of clay starting at a depth of roughly 65 feet bgs to the base of the probe.

Probe CPT-1 encountered a thick medium dense to dense sand layer interbedded with clay, silt and gravel from roughly 25 feet below the ground surface (bgs) to 70 feet bgs. Probe CPT-2 encountered a thick medium dense to very dense sand and gravel layer with trace thin beds of silt from roughly 28 feet bgs to the base of the probe (approximately 69.5 feet bgs), with an approximately 5-foot-thick layer of interbedded clay and clayey silt at approximately 55 feet bgs. Probe CPT-3 encountered a thick medium dense to very dense sand and gravel layer with trace thin beds of silt from roughly 25 feet to 34 feet bgs and from 41 feet to the base of the probe (approximately 58 feet bgs). Probe CPT-4 encountered a thick medium dense to very dense sand and gravel layer from roughly an approximate depth of 33 feet bgs to the base of the probe (approximately 65 feet bgs). Lastly, Probe CPT-5 encountered a thick medium dense to very dense sand and gravel layer with thin interbedded silt layers from roughly 33 feet bgs to 63 feet bgs, before encountering a medium stiff to very stiff clay layer to the base of the probe (approximately 80 feet).

Soil classification will be provided in more detail during future design-level geotechnical studies, when soil samples are retrieved and submitted to our laboratory for testing.

Groundwater

At the northern and central portion of the site, groundwater was encountered at approximately 10.8, 11 and 11 feet below the ground surface in CPT-1, CPT-2 and CPT-3, respectively. At the southern end of the site, groundwater was encountered at approximately 6.2 feet below the ground surface in both CPT-4 and CPT-5. Fluctuations in groundwater levels should be expected during seasonal changes or over a period of years because of precipitation changes, perched zones, changes in drainage patterns, and irrigation. Groundwater levels will be reassessed in future design-level studies.

DISCUSSION AND CONCLUSIONS

Based upon our research and limited field exploration, the main geotechnical concerns for the proposed site development include: (1) potential seismic hazards, (2) the presence of potentially expansive near-surface soils, (3) potential load-induced settlement; and (4) the anticipated existence of shallow groundwater. These items and other geotechnical issues are discussed in the following sections of this report.

Seismic Hazards

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, ground lurching, soil liquefaction, and lateral spreading. These hazards are discussed in the following sections.

Based on topographic and lithologic data, risk from earthquake-induced lurch cracking, regional subsidence or uplift, tsunamis, landslides and seiches is considered low at the site.

Ground Rupture. The site is not located within a State of California Earthquake Fault Hazard Zone (1982) or a Fault Rupture Hazard Zone of the Santa Clara County Geologic Hazard Zones (2002). Therefore, since no known active faults cross the site, and since the concealed and queried projection of the Silver Creek fault is not zoned by the State of California or City of San Jose for future study, it is our opinion that ground rupture is not likely to occur at the site.

Ground Shaking. An earthquake of moderate to high magnitude generated within the San Francisco Bay Region, similar to those which have occurred in the past, could cause considerable ground shaking at the site. To mitigate the shaking effects, all structures should be designed using sound

engineering judgment and the latest International Uniform Building Code (UBC) requirements as a minimum.

Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead and live loads. The code-prescribed lateral forces are generally substantially smaller than the expected peak forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

Lurching. Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other geologically similar locations in the Bay Area, but the offset or strain is expected to be low to negligible at the site.

Liquefaction. Liquefaction is a phenomenon in which saturated, loose or medium dense, cohesionless soils (sands, gravels, and some silts) are subject to a temporary, but essentially total, loss of shear strength because of pore pressure build-up under the reversing cyclic shear stresses associated with earthquakes. As stated in earlier sections, the site is located within a State of California Seismic Hazard Zone (2004) for Liquefaction Hazard (Figure 5). The potential for liquefaction has been reviewed and addressed below.

To characterize the potential for liquefaction, the CPT probe logs were reviewed for loose or medium dense granular deposits situated below groundwater levels. CPT probes did indicate the presence of several zones of medium dense granular material located below the groundwater table, generally below 20 feet bgs.

As a result, we performed preliminary liquefaction analyses of the CPT data that followed general guidelines provided in DMG Special Publication 117 (1997), SCEC (1999), Robertson and Wride (1997), Robertson and Campanella (1988), Finn (1996), Youd et al. (1997), and Seed et al. (1982).

Our analysis indicated that the thick sand and gravel unit and trace thin silt layers displayed multiple lenses that are potentially liquefiable ($FS < 1.2$). These potentially liquefiable layers were encountered in each boring at depths ranging from 13 feet to 66 feet bgs. CPT-1 had multiple lenses ranging from 2 inches to 3.7 feet thick at depths between 25 and 50 feet bgs; CPT-2 had multiple lenses ranging from less than 1 inch to 2.5 feet thick at depths between 28 and 64 feet bgs; CPT-3 had multiple lenses ranging from less than 2 inches to 3.75 feet thick at depths between 20 and 34 feet bgs; CPT-4 had multiple lenses ranging from less than 4 inches to 5 feet thick at depths between 20 and 59 feet bgs. CPT-5 had multiple lenses ranging from less than 8 inches to 1.5 feet thick at depths between 13 and 51 feet bgs.

Due to the depth of the potentially liquefiable soils and thickness of non-liquefiable material above those materials, it does not appear that these zones are susceptible to ground failure based on Ishihara (1985). If site grades are lowered due to excavation for subterranean structures, there is an increased potential for ground failure.

Appendix B presents spreadsheets of our preliminary analysis for each CPT probe. Liquefaction and its associated consequences will be further addressed during a future design-level geotechnical study.

Densification Due to Earthquake Shaking. Densification of the sandy soils above and below groundwater levels can result in settlement/densification during an earthquake. The granular deposits encountered are estimated to undergo up to 2.5 inches of earthquake-induced densification (total), with the highest results found in CPT-1, CPT-2 and CPT-4. Preliminary foundation design should incorporate a differential settlement of 1.25 inches over a 40-foot length/width or between column supports. Earthquake-induced densification will be further addressed during a future design-level geotechnical study.

Expansive Soils

Although soil samples were not collected as part of the scope of services for this phase, observation of cracking of the parking lot pavement was present and our past experience in the general area indicate the likely presence of potentially expansive soils. The CPT probes also confirmed the presence of fine-grained silt and clay in the upper 25 to 32 feet bgs.

Successful development on expansive soils requires special attention during construction. It is imperative that exposed soils be kept moist at all times prior to construction. It is difficult to remoisturize dry, clayey soil without excavation, moisture conditioning and recompaction. Long-term mitigation measures should also include the prevention of moisture variation.

Load-Induced Settlement

As depicted in the CPT data collected, portions of the fine-grained material located above 25 feet are medium stiff and below groundwater levels. Some of these materials may be subject to load-induced settlement (compression). Laboratory testing and settlement analysis may be warranted pending actual land plan concepts and will be included in our design-level study.

Shallow Groundwater

Groundwater was encountered at elevations ranging from 6.2 to 11 feet bgs. Temporary dewatering systems might be required during construction. Permanent basements will require designs that consider the presence of high groundwater levels. In addition, fluctuations in groundwater levels should be expected during seasonal changes or over a period of years because of precipitation changes, perched zones, changes in drainage patterns, and irrigation.

This issue will be further addressed in the future design-level geotechnical exploration after grading plans and building concepts have been further developed.

Existing or Undocumented Fill

Although not evident in the CPT logs, minor fills likely exist associated with the existing office buildings, which sit slightly higher than surrounding landscaping, parking areas and roads for drainage purposes. Existing fills are also present as utility trench backfill.

Differential Fill Thickness

Our site reconnaissance did not identify the presence of basements or known below-ground structures, other than anticipated utilities. Other subsurface facilities, however, may be present that were not readily observed during our reconnaissance. Depending upon the depths of excavations required, a differential fill condition may arise that could adversely impact the performance of the residential foundations. Recommendations to address this potential condition are presented in a subsequent section.

Conclusions

Based upon this preliminary study, it is our opinion that the project site is feasible for the proposed multi-family residential development. A site-specific geotechnical exploration should be performed as part of the design process. The exploration would include borings and laboratory soil testing to provide data for preparation of specific recommendations regarding grading, foundation design, and drainage for the proposed multi-family residential construction. The exploration will also allow for more detailed evaluations of the above-described geotechnical issues, including liquefaction and expansive soils, and afford the opportunity to provide recommendations regarding techniques and procedures to be implemented during construction to mitigate potential geotechnical/geological hazards.

RECOMMENDATIONS

The following recommendations are for initial land planning and preliminary estimating purposes. Final recommendations regarding site grading and foundation construction will be provided after additional site-specific exploration has been undertaken.

Selection of Materials

With the exception of construction debris (wood, brick, asphalt, concrete, metal, etc.), trees, and organically contaminated materials (soil which contains more than 3 percent organic content by weight), we anticipate the site soils are suitable for use as engineered fill. Other materials and debris, including trees with their root balls, should be removed from the project site.

If desired and if approved by the regulating agencies, the existing asphalt concrete and underlying aggregate base may be reused as engineered fill within street areas. The material should be broken down, but not pulverized, to meet a 6 inch or less particle size and placed in a separate stockpile outside the limits of grading until used within street areas below subgrade.

Loose or Compressible Soils

Once the site is stripped to expose undisturbed native soil, the site should be observed for its suitability to receive engineered fill materials, or as foundation soils. Loose soils might be encountered in any area occupied by existing utility trenches or where foundations were removed. Loose or compressible surface soils should be subexcavated and replaced with properly engineered fill. The actual depth of reworking should be determined by a qualified ENGEO field representative at the time of grading.

Some of the clay layers within the upper 25 feet of site soils are medium stiff to stiff and below groundwater levels. As noted above, these materials may be subject to load-induced settlement (compression) and should be further addressed during design-level study.

Expansive Soils

Expansive soils shrink and swell as a result of moisture changes. This can cause heaving and cracking of slabs-on-grade, pavements and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soils can be reduced by deepening the foundations to below the zone of moisture fluctuation with deep foundations, or by using mat foundations which are designed to resist the deflections associated with the expansive soil. Recommendations that address the potentially expansive nature of the site soils are provided in subsequent sections of this report. Further evaluation of site soils should be evaluated during a site-specific geotechnical exploration as part of the design process.

Differential Fill Thickness

Depending upon localized subexcavations in conjunction with planned cuts or existing backfill removal, a differential fill thickness condition could possibly arise. For subexcavation activities that create a differential fill thickness across a building footprint, mitigation to achieve a similar fill thickness across the pad is beneficial for the performance of a shallow foundation system. For preliminary purposes, a differential fill thickness of up to 5 feet is acceptable across a building footprint. For a differential fill thickness exceeding 5 feet across a building footprint, we recommend performing subexcavation activities to bring this vertical distance to within the 5-foot tolerance and that the material be replaced as engineered fill. As a minimum, the subexcavation area should include the entire structure footprint plus 5 feet beyond the edges of the building footprint.

Fill Placement

For land planning and cost estimating purposes, the following compaction control requirements should be anticipated for general fill areas:

Test Procedures:	ASTM D-1557.
Required Moisture Content:	Not less than 3 percentage points above optimum moisture content.
Minimum Relative Compaction:	Not less than 90 percent.

Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material.

Additional compaction requirements may be required for near-surface building pad foundation soils, import soils and retaining wall backfill. These additional requirements will be developed during our detailed exploration.

Shoring

Due to the potential for excavations to accommodate partially-below grading parking and the anticipated shallow groundwater depths, excavation shoring may be necessary. During our design-level study, the soil conditions will be further assessed and soil parameters for use in shoring design can be developed.

Preliminary Building Code Seismic Information

Based on the anticipated soil conditions and local seismic sources, the site may be characterized for design based on Chapter 16 of the 1997 UBC using the following preliminary information.

Categorization/Coefficient	Design Value
Soil Profile Type (Table 16-J)	S _D
Seismic Zone (Figure 16A-2)	4
Seismic Zone Factor, Z (Table 16-I)	0.4
Seismic Source Type (Table 16-U)	A
Near Source Factor N _a (Table 16-S)	1.0
Near Source Factor N _v (Table 16-T)	1.2
Seismic Coefficient C _a (Table 16-Q)	0.44*N _a
Seismic Coefficient C _v (Table 16-R)	0.64*N _v

The above information was developed based on the governing Type A Hayward Fault, located roughly 10.9 km northeast of the site. Once additional exploration has occurred, the information above will be reviewed and updated as applicable.

Preliminary Foundation Guidelines

It is our opinion that structural mat foundations (post-tensioned or conventionally-reinforced) would be feasible and likely most cost-effective to support the proposed multi-story residential structures assuming a partial level of below grade parking. Further discussion about proposed building loads and layouts and additional exploration should occur prior to preparation of site-specific foundation designs for the development.

A minimum mat thickness of 12 inches should be anticipated, with the perimeter thickened by at least 2 inches. A maximum allowable bearing pressure of 1,000 psf for dead-plus-live loads should also be anticipated for preliminary purposes, which may be increased by one-third when considering total loads including wind or seismic. We anticipate that structural mats constructed on swelling soils will move differentially; therefore, structural mats may require stiffening to

reduce differential movements due to swelling/shrinkage to a value compatible with the type of structure that will be constructed.

Depending on additional information regarding groundwater levels and the planned depth of partial basements, extra waterproofing or drainage measures should be anticipated.

Preliminary Pavement Design

The following preliminary pavement section has been determined for Traffic Index of 5, an assumed R-value of 5, and in accordance to the design methods contained in Topic 608 of Caltrans Highway Design Manual.

PRELIMINARY PAVEMENT SECTIONS

Traffic Index	AC (inches)	AB (inches)
6.5	4.2	7.5

Note: AC – Asphalt Concrete
AB – Caltrans Class 2 aggregate base (R-value of 78 or greater)

The above preliminary pavement section is provided for estimating only and considers the City of San Jose minimum asphalt concrete (AC) thickness.

Surface Drainage

Building pads must be positively graded at all times to provide for rapid removal of surface water runoff from the foundation systems, and to prevent ponding of water under floors or seepage toward the foundation systems at any time during or after construction. Ponded water will cause undesirable soil swell and loss of strength.

As a minimum requirement, finished grades should have slopes of at least 3 percent within 5 feet, where feasible, from the exterior walls and at right angles to allow surface water to drain

positively away from the structures. For paved areas, the slope gradient can be reduced to 2 percent.

All surface water should be collected and discharged into outlets approved by the Civil Engineer. Landscape mounds must not interfere with this requirement. In addition, each building should drain individually by providing positive drainage or sufficient area drains around the buildings to remove excessive surface water. All roof stormwater should be collected and directed to downspouts.

Due to the anticipated high clay content, the site soils are not expected to have adequate permeability values to handle stormwater infiltration in grassy swales or permeable pavers. Therefore, best management practices should assume that little stormwater infiltration will occur at the site.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

This preliminary geotechnical study is issued with the understanding that it is the responsibility of the owner to transmit the information and recommendations of this report to developers, contractors, buyers, architects, engineers, and designers for the project so that the necessary steps can be taken by the contractors and subcontractors to carry out such recommendations in the field. The conclusions and recommendations contained in this report are solely professional opinions.

The professional staff of ENGEO Incorporated strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. There are risks of earth movement and property damages inherent in land development. We are unable to eliminate all risks or provide insurance; therefore, we are unable to guarantee or warrant the results of our services.

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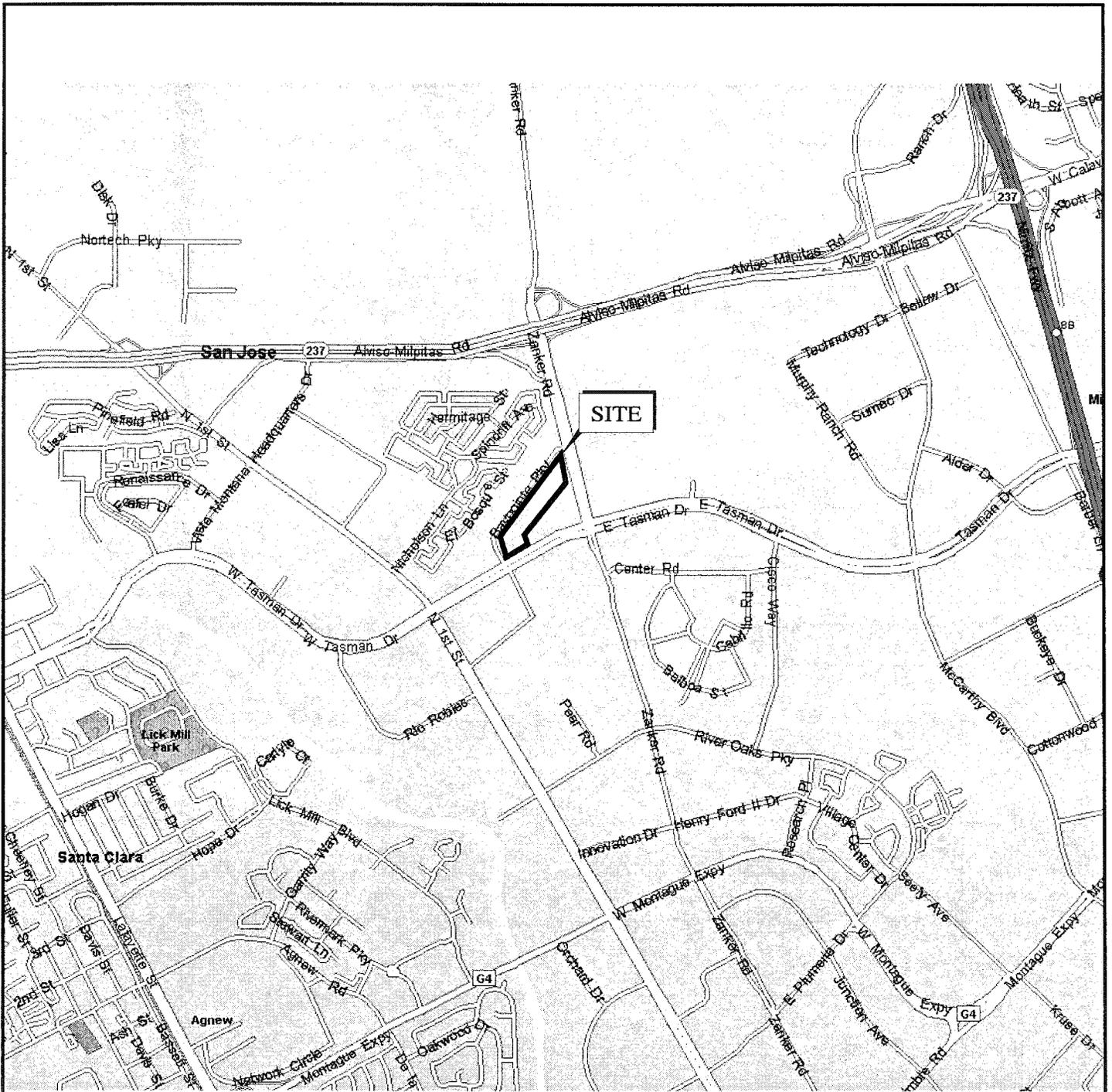
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BASE MAP SOURCE: MS STREETS AND TRIPS



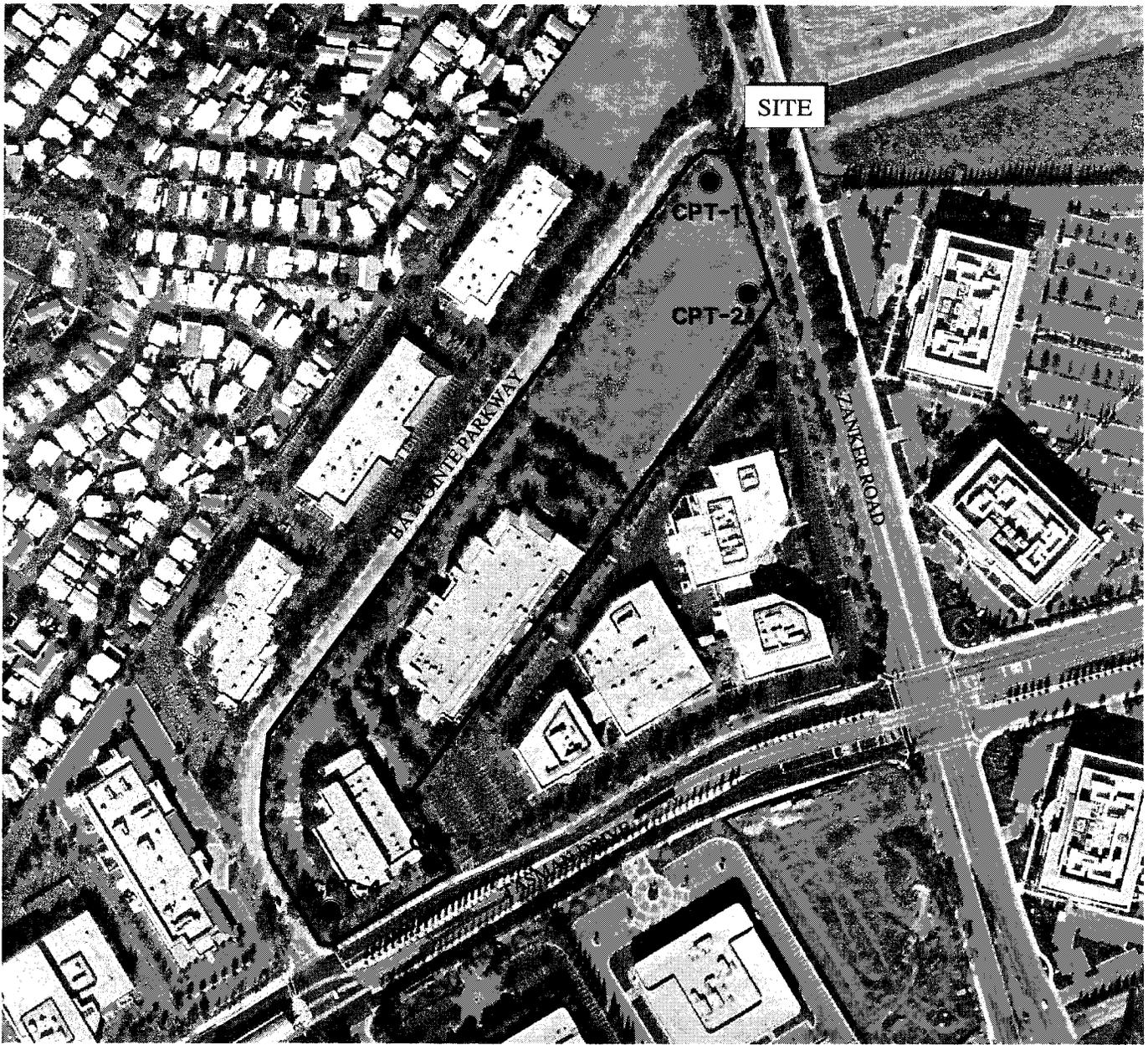
VICINITY MAP
 BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA

PROJECT NO.: 7123.3.001.01
DATE: JANUARY 2006
DRAWN BY: SRP CHECKED BY: JAM

FIGURE NO.
1

ORIGINAL FIGURE PRINTED IN COLOR

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EXPLANATION

CPT-5 ● APPROXIMATE LOCATION OF CONE PENETRATION TEST



BASE MAP SOURCE: USA PHOTOMAPS



SITE PLAN
BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

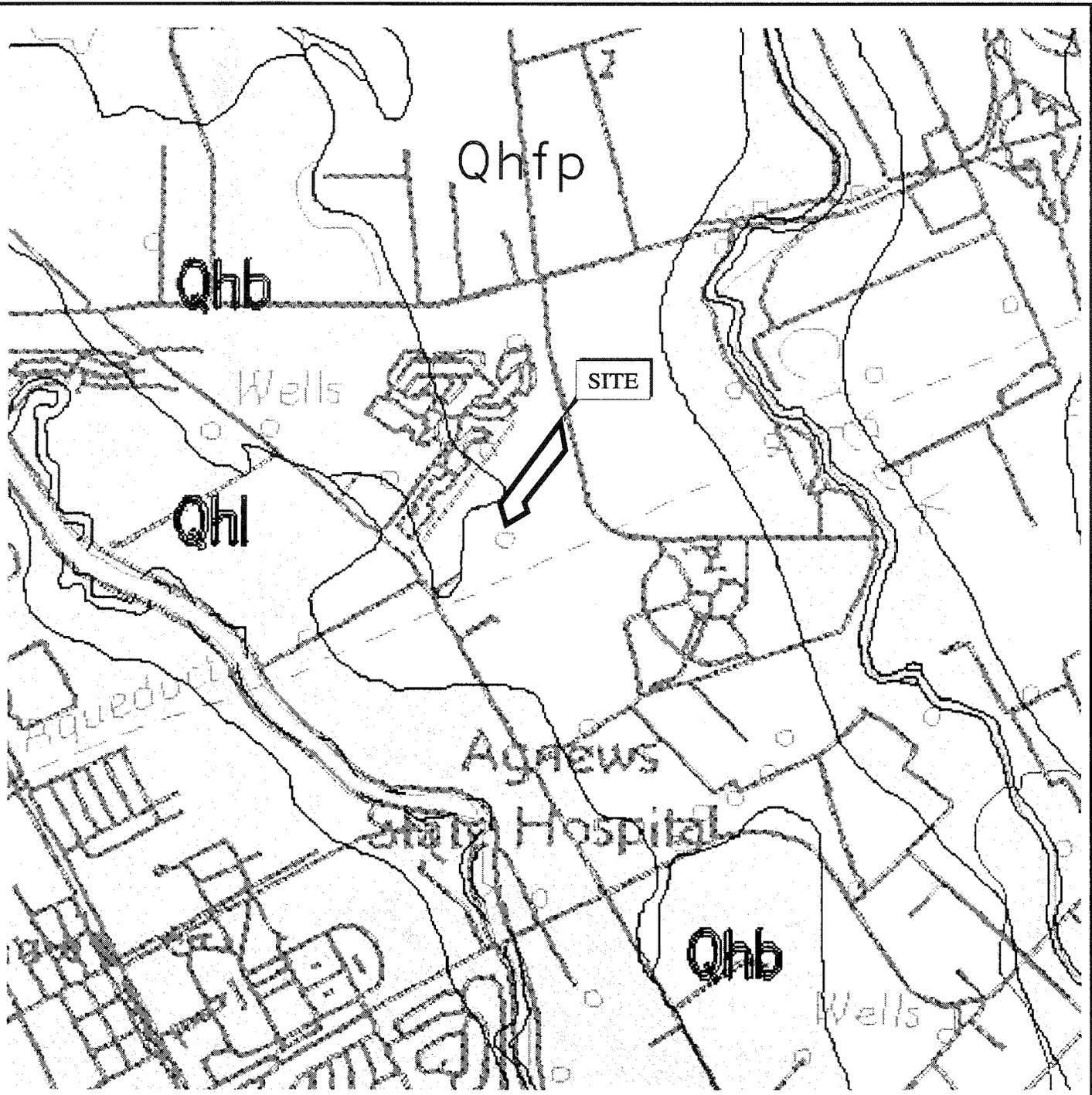
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FIGURE NO.
2

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EXPLANATION

- Qhb BASIN DEPOSITS (HOLOCENE)
- Qhl LEVEE DEPOSITS (HOLOCENE)
- Qhfp FLOOD PLAIN DEPOSITS (HOLOCENE)



BASE MAP SOURCE: WENTWORTH, 1999

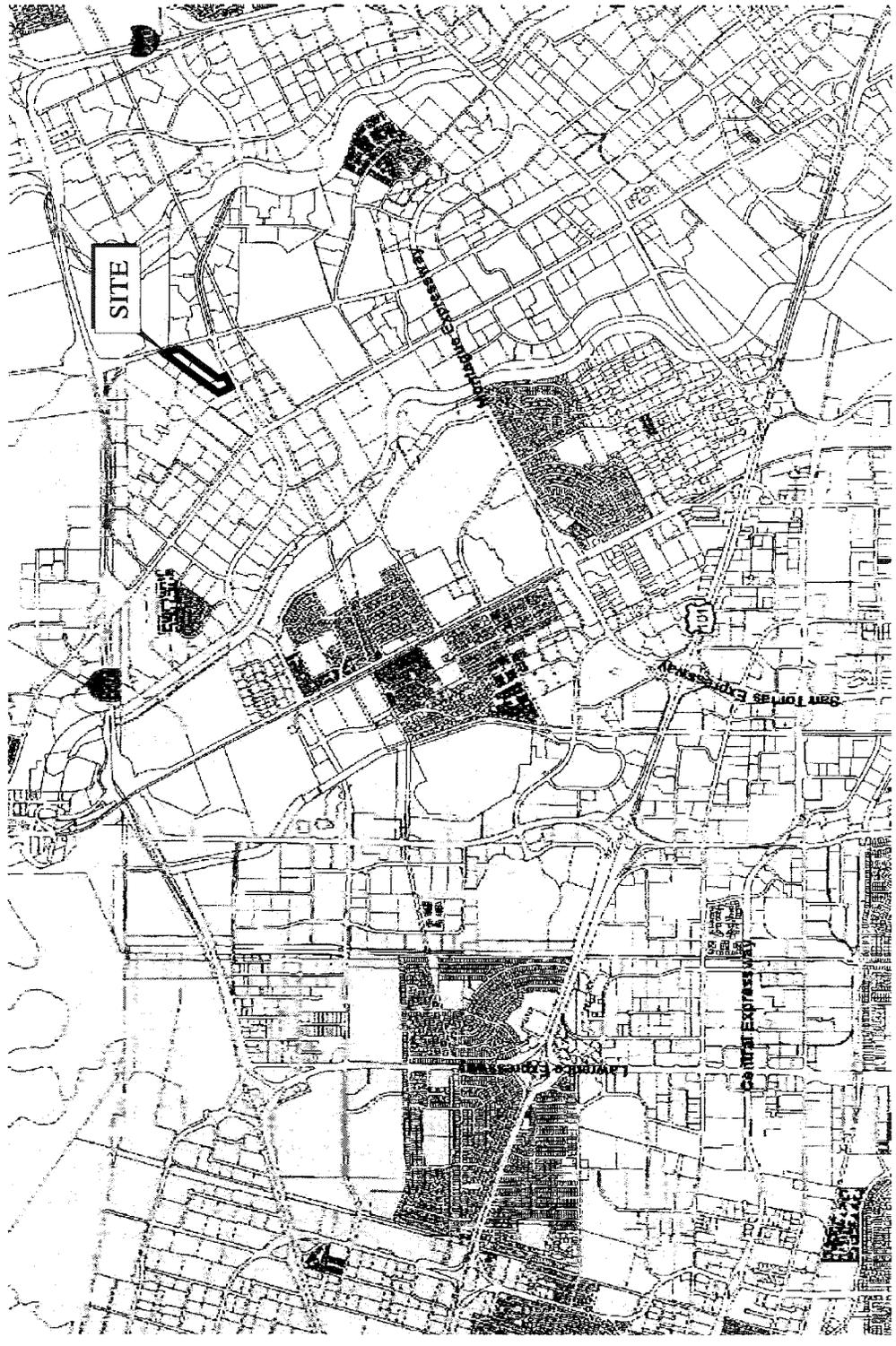


REGIONAL GEOLOGIC MAP
 BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA

PROJECT NO.: 7123.3.001.01
 DATE: JANUARY 2006
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FIGURE NO.
3

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**Santa Clara County
Geologic Hazard Zones**

- Fault Rupture Hazard Zones
- Parcels
- County Boundary

BASE MAP SOURCE: SANTA CLARA COUNTY, 2002



FAULT RUPTURE HAZARD ZONE MAP
BAYPOINTE PARKWAY
 SAN JOSE, CALIFORNIA

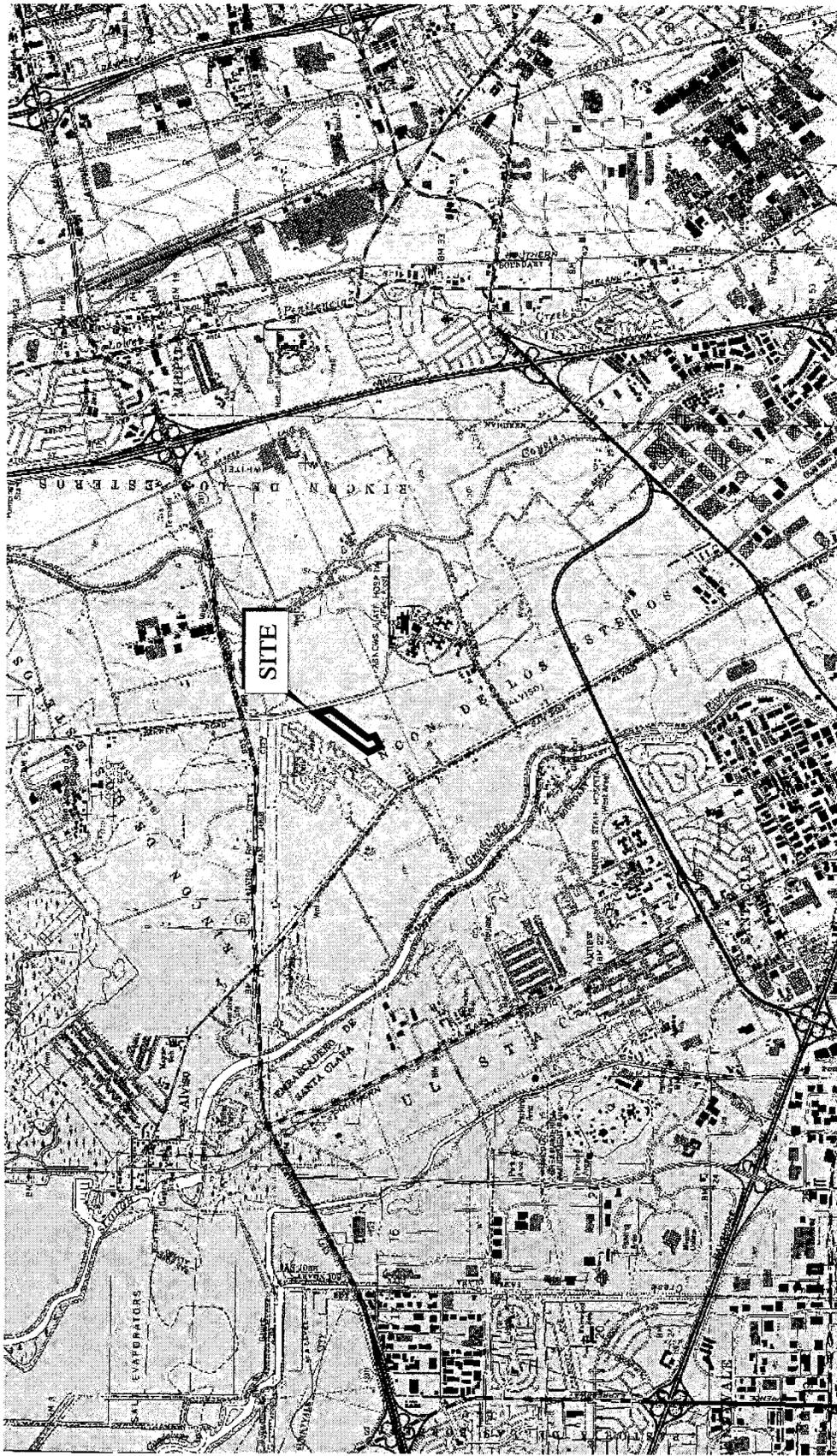
PROJECT NO.: 7123.3.001.01

DATE: JANUARY 2006

DRAWN BY: SRP CHECKED BY: JAM

FIGURE NO.

4



MAP EXPLANATION

Zones of Required Investigation:

- Liquefaction:**
Areas where historical occurrences of liquefaction, or local geotechnical and ground-water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 26931c) would be required.
- Earthquake-Induced Landslides:**
Areas where previous occurrence of landslide movement, or local geotechnical and ground-water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 26931c) would be required.



BASE MAP SOURCE: SANTA CLARA COUNTY



SEISMIC HAZARDS MAP
BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

PROJECT NO.: 7123.3.001.01

DATE: JANUARY 2006

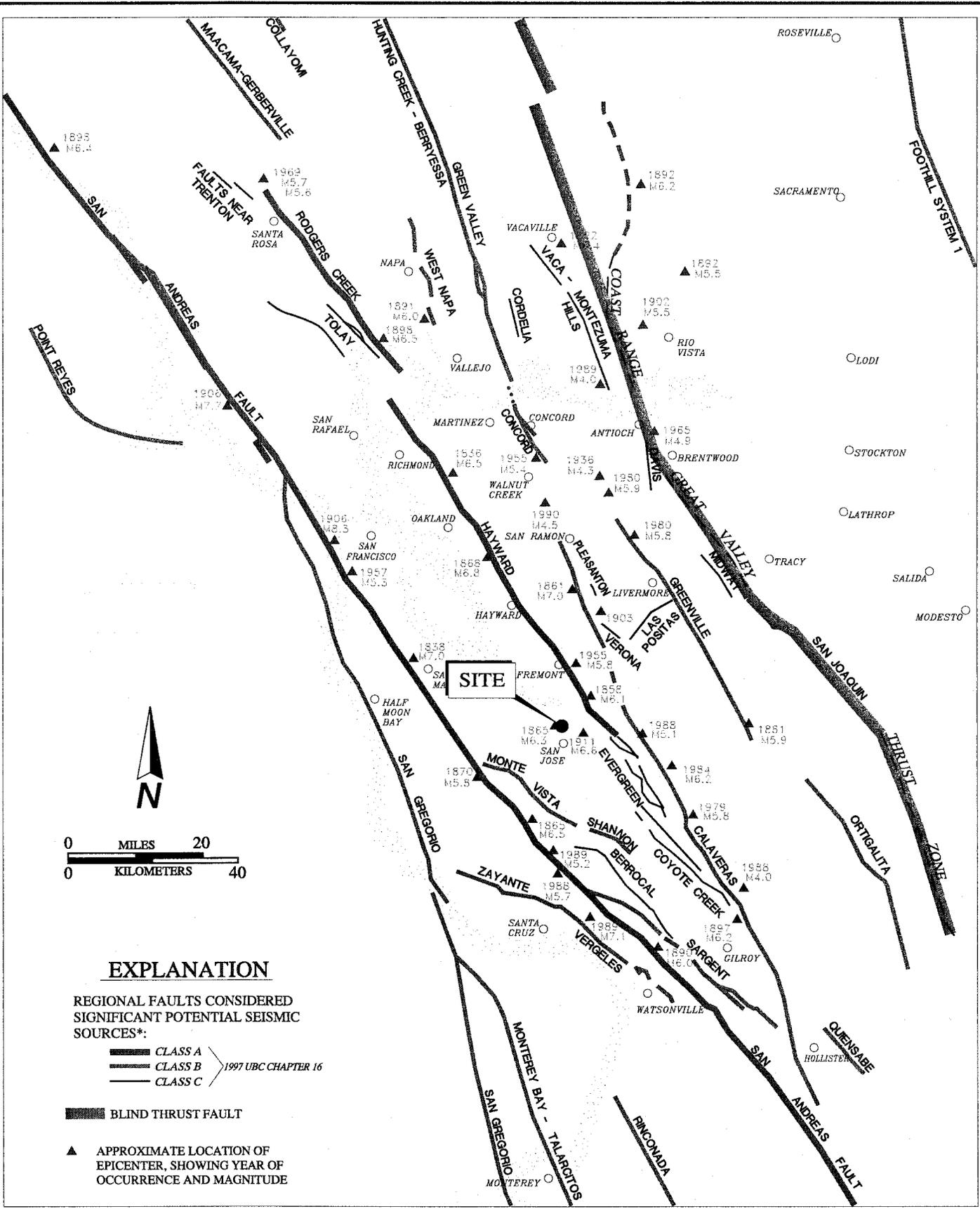
DRAWN BY: SRP

CHECKED BY: JAM

FIGURE NO.

5

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EXPLANATION

REGIONAL FAULTS CONSIDERED SIGNIFICANT POTENTIAL SEISMIC SOURCES*:

- CLASS A
 - CLASS B
 - CLASS C
- 1997 UBC CHAPTER 16

BLIND THRUST FAULT

▲ APPROXIMATE LOCATION OF EPICENTER, SHOWING YEAR OF OCCURRENCE AND MAGNITUDE

*BASED ON USGS OPEN FILE 96-706

<p>EXCELLENT SERVICE SINCE 1971</p>	<p>REGIONAL FAULTING AND SEISMICITY</p> <p>BAYPOINTE PARKWAY</p> <p>SAN JOSE, CALIFORNIA</p>		<p>PROJECT NO.: 7123.3.001.01</p>	<p>FIGURE NO.</p>
			<p>DATE: JANUARY 2006</p>	<p>6</p>
			<p>DRAWN BY: SRP</p>	

ORIGINAL FIGURE PRINTED IN COLOR

C:\Drafting\DRAPPING2\Dwg\7123\001\7123300101-6-FaultMap-106.dwg 1-13-06 12:20:50 PM

APPENDIX A

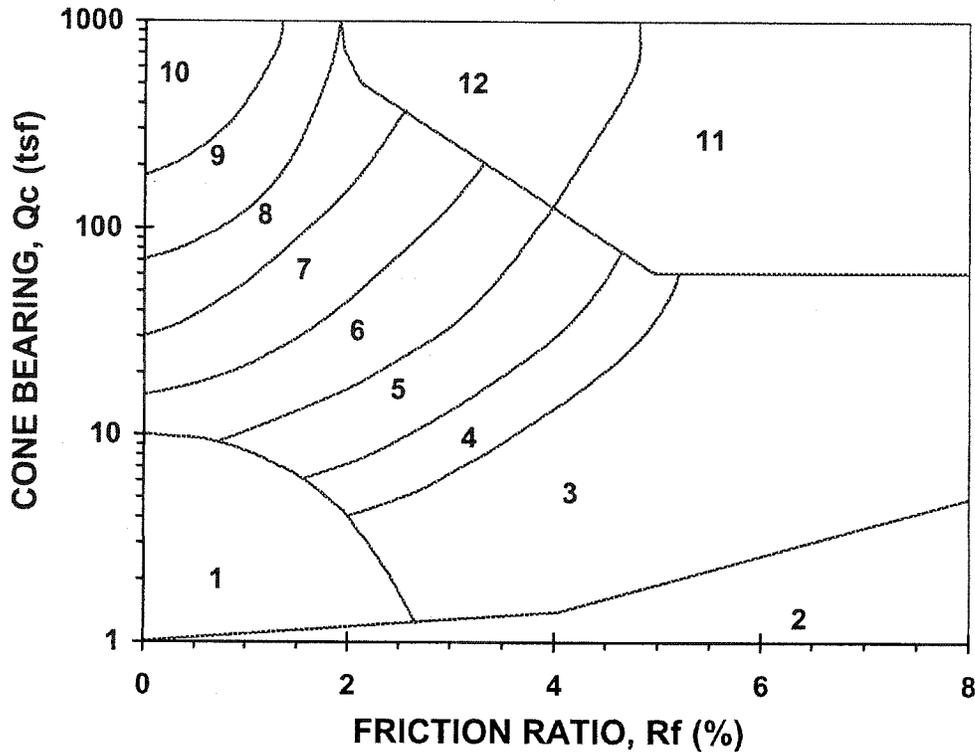
JOHN SARMIENTO & ASSOCIATES, INC.

Cone Penetrometer Test Logs

7123.3.001.01
January 13, 2006



SIMPLIFIED SOIL BEHAVIOR TYPE CLASSIFICATION FOR STANDARD ELECTRONIC CONE PENETROMETER



ZONE	Qc/N ¹	Su Factor (Nk) ²	SOIL BEHAVIOR TYPE ¹
1	2	for Zones 1 to 6 10 for Qc ≤ 9 tsf 12 for Qc = 9 to 12 tsf 15 for Qc > 12 tsf	Sensitive Fine Grained Organic Material CLAY
2	1		
3	1		
4	1.5		
5	2		
6	2.5		
7	3	---	Silty SAND to Sandy SILT
8	4	---	SAND to Silty SAND
9	5	---	SAND
10	6	---	Gravelly SAND to SAND
11	1	15	Very Stiff Fine Grained (*)
12	2	---	SAND to Clayey SAND (*)

(*) Overconsolidated or Cemented

Qc = Tip Bearing
 Fs = Sleeve Friction
 Rf = Fs/Qc*100 = Friction Ratio

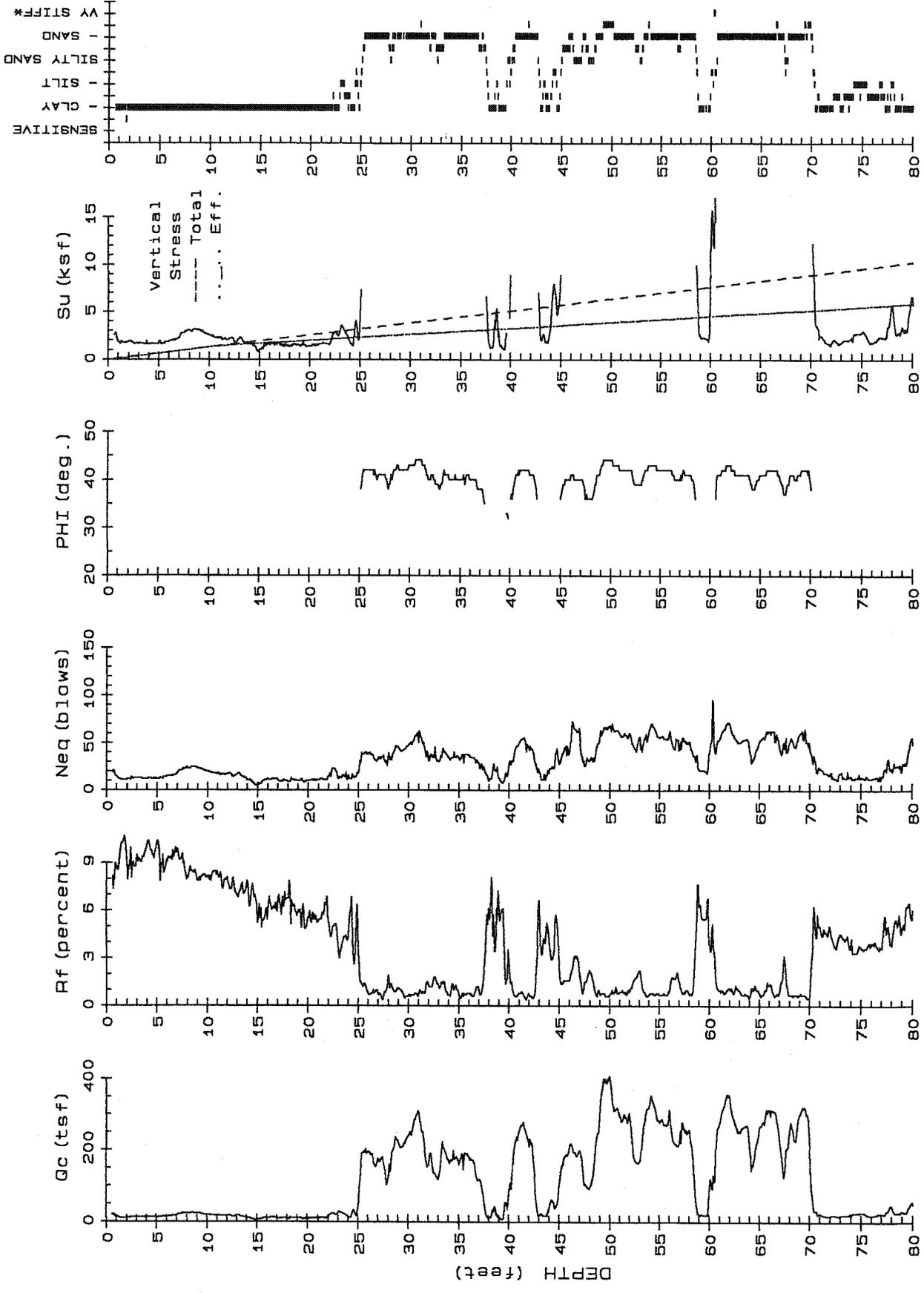
References: ¹Robertson, 1986, Olsen, 1988

²Bonaparte & Mitchell, 1979 (young bay mud Qc ≤ 9)

²Estimated from local experience (fine grained soils Qc > 9)

Note: Testing performed in accordance with ASTM D3441

John Sarmiento & Associates
 Cone Penetrometer Testing Services



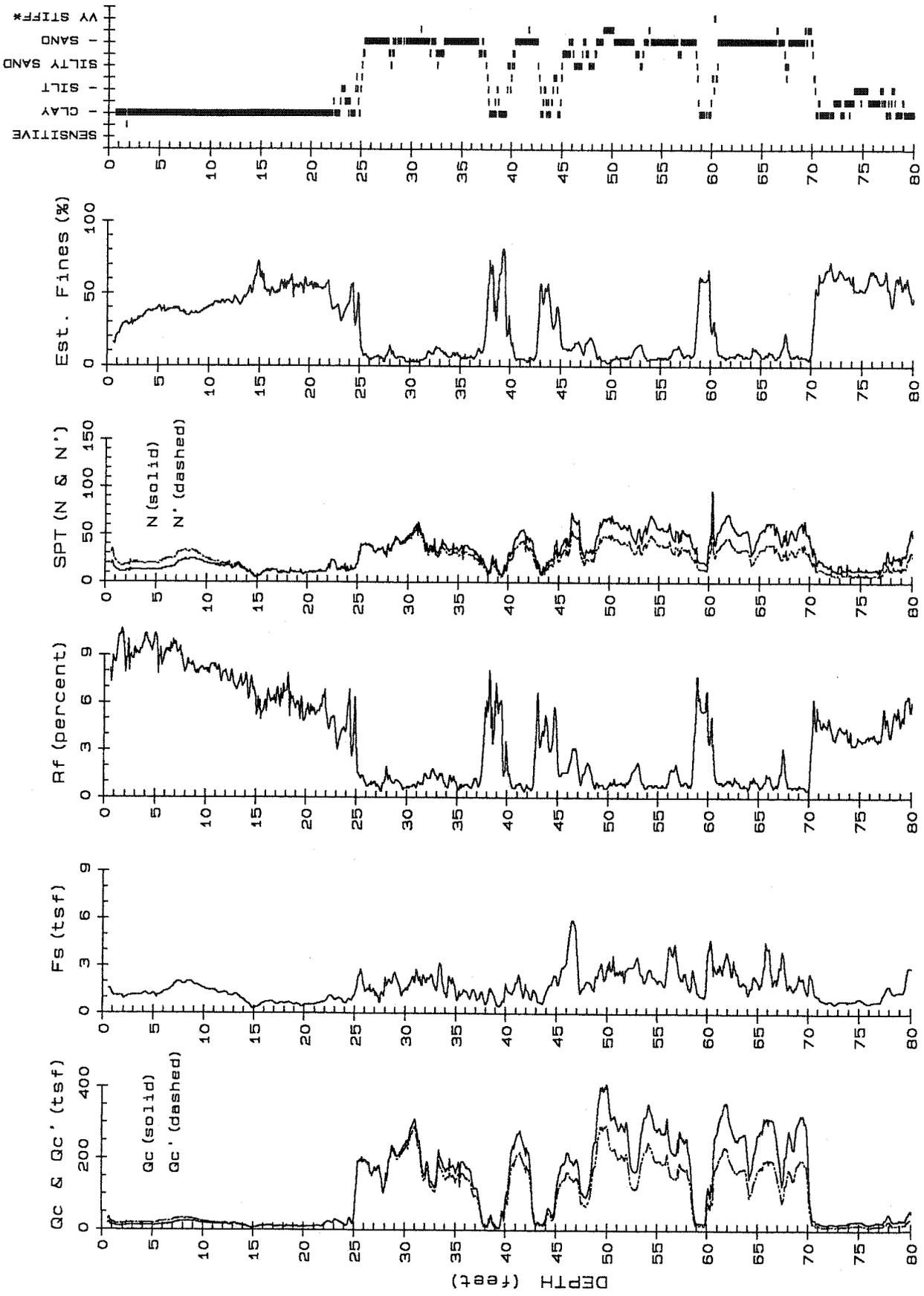
Terminated at 80.0 feet

Groundwater measured at 10.8 feet

PROJECT: BAYPONTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EG0-124)

CPT NO.: CPT-1
 DATE : 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service

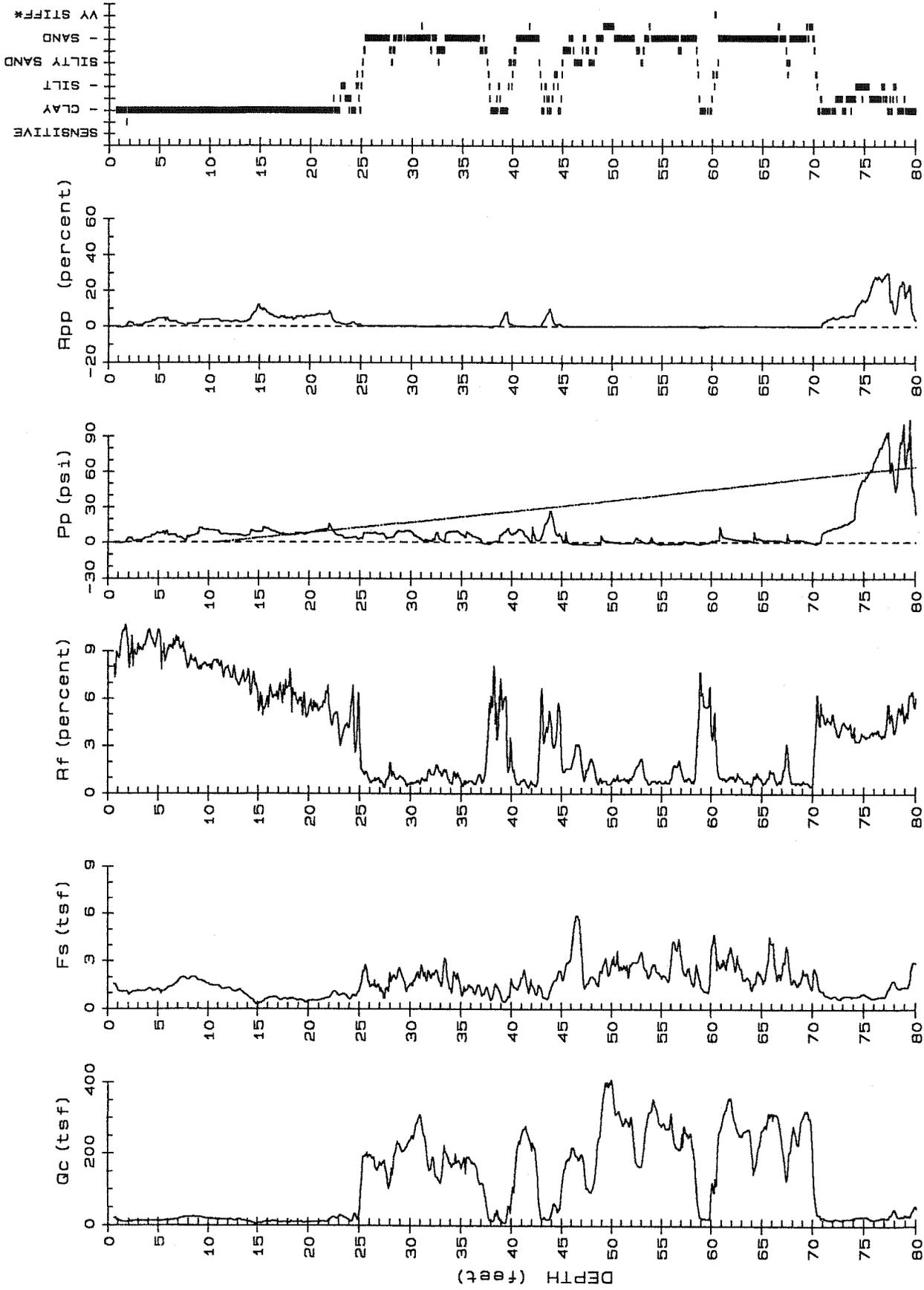


Terminated at 80.0 feet
 Groundwater measured at 10.8 feet

PROJECT: BAYPONTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

CPT NO.: CPT-1
 DATE: 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service



Groundwater measured at 10.8 feet

Terminated at 80.0 feet

CPT NO.: CPT-1
 DATE : 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

John Sarmiento & Associates
 Cone Penetration Testing Service

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-1
 DATE : 12-23-2005
 Groundwater measured at 10.8 feet
 Terminated at 80.0 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.57	19.30	1.560	8.1	19	31	0.07	----	2.57	CLAY	130-140
1.01	13.70	1.180	8.6	14	22	0.13	----	1.82	"	"
1.54	10.80	1.100	10.2	11	17	0.19	----	1.78	"	120-130
2.06	11.50	0.910	7.9	12	18	0.26	----	1.90	"	"
2.59	12.40	1.110	9.0	12	20	0.32	----	1.63	"	"
3.02	12.60	1.180	9.4	13	20	0.38	----	1.65	"	"
3.54	12.30	1.140	9.3	12	20	0.44	----	1.61	"	"
4.07	12.40	1.280	10.3	12	20	0.51	----	1.62	"	130-140
4.59	12.20	1.150	9.4	12	20	0.58	----	1.59	"	120-130
5.02	11.90	1.230	10.3	12	19	0.63	----	1.93	"	"
5.54	13.20	1.160	8.8	13	21	0.70	----	1.71	"	"
6.07	14.80	1.370	9.3	15	24	0.77	----	1.92	"	130-140
6.51	15.20	1.480	9.7	15	24	0.83	----	1.97	"	"
7.03	18.50	1.800	9.7	19	28	0.90	----	2.41	"	"
7.55	22.60	2.020	8.9	23	32	0.97	----	2.95	"	"
8.07	23.20	1.870	8.1	23	32	1.04	----	3.02	"	"
8.59	24.30	2.010	8.3	24	33	1.11	----	3.17	"	"
9.05	23.30	1.810	7.8	23	31	1.17	----	3.03	"	"
9.56	21.00	1.730	8.2	21	27	1.24	----	2.72	"	"
10.08	19.50	1.570	8.1	20	24	1.31	----	2.51	"	"
10.50	17.90	1.480	8.3	18	22	1.37	----	2.30	"	"
11.01	18.10	1.470	8.1	18	22	1.44	----	2.32	"	"
11.52	17.20	1.260	7.3	17	20	1.50	----	2.19	"	"
12.03	17.20	1.320	7.7	17	20	1.57	----	2.19	"	"
12.55	14.30	1.140	8.0	14	16	1.64	----	1.80	"	"
13.06	18.00	1.220	6.8	18	20	1.71	----	2.29	"	"
13.57	14.30	1.020	7.1	14	16	1.78	----	1.79	"	120-130
14.08	10.40	0.790	7.6	10	12	1.84	----	1.58	"	"
14.52	7.80	0.590	7.6	8	9	1.89	----	1.37	"	110-120
15.03	6.30	0.330	5.2	6	7	1.94	----	1.07	"	100-110
15.58	9.50	0.500	5.3	10	10	2.01	----	1.42	"	110-120
16.08	11.10	0.700	6.3	11	12	2.07	----	1.68	"	120-130
16.51	12.30	0.750	6.1	12	13	2.12	----	1.50	"	"
17.02	9.90	0.660	6.7	10	10	2.19	----	1.47	"	"
17.53	10.30	0.650	6.3	10	11	2.25	----	1.53	"	"
18.03	9.30	0.620	6.7	9	10	2.31	----	1.36	"	"
18.54	10.50	0.650	6.2	11	11	2.38	----	1.55	"	"
19.07	9.60	0.580	6.0	10	10	2.44	----	1.40	"	"
19.58	8.40	0.490	5.8	8	9	2.50	----	1.43	"	110-120
20.08	9.80	0.540	5.5	10	10	2.57	----	1.42	"	120-130
20.51	10.60	0.570	5.4	11	11	2.62	----	1.55	"	"
21.01	10.90	0.580	5.3	11	11	2.68	----	1.59	"	"
21.52	11.40	0.650	5.7	11	11	2.75	----	1.67	"	"
22.06	14.90	0.760	5.1	15	15	2.81	----	1.80	"	"
22.56	22.60	1.130	5.0	23	23	2.88	----	2.82	"	130-140
23.07	28.10	0.850	3.0	14	14	2.95	----	3.55	Clayey SILT to Silty CLAY	"
23.57	21.80	0.930	4.3	15	14	3.02	----	2.71	Silty CLAY to CLAY	"
24.06	13.60	0.660	4.9	14	14	3.08	----	1.61	CLAY	120-130
24.56	32.20	0.830	2.6	13	13	3.15	----	4.08	Sandy SILT to Clayey SILT	130-140
25.05	56.10	1.410	2.5	22	22	3.21	----	7.27	"	"
25.54	191.90	2.690	1.4	38	38	3.28	42	----	SAND	"
26.01	195.90	1.400	0.7	39	39	3.33	42	----	"	110-120
26.56	166.60	1.390	0.8	33	33	3.40	41	----	"	120-130
27.03	175.40	1.170	0.7	35	35	3.45	41	----	"	110-120
27.56	166.50	1.190	0.7	33	33	3.52	41	----	"	"
28.02	117.50	2.240	1.9	39	39	3.58	39	----	Silty SAND to Sandy SILT	130-140
29.56	216.50	1.200	0.6	43	42	3.75	42	----	SAND	110-120
30.02	237.80	1.590	0.7	48	46	3.81	43	----	"	"
30.55	279.10	2.010	0.7	56	53	3.87	44	----	"	"
31.07	300.10	2.770	0.9	60	56	3.93	44	----	"	120-130
31.51	234.60	2.010	0.9	47	44	3.99	43	----	"	"
32.04	157.90	1.940	1.2	32	29	4.06	40	----	"	130-140
32.52	136.60	2.430	1.8	34	31	4.12	39	----	SAND to Silty SAND	"

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
33.06	125.70	1.440	1.1	31	28	4.19	39	----	"	120-130
33.52	202.10	3.030	1.5	40	36	4.25	41	----	SAND	130-140
34.05	167.30	1.190	0.7	33	29	4.32	40	----	"	110-120
34.50	197.60	2.060	1.0	40	34	4.37	41	----	"	120-130
35.04	157.90	1.020	0.6	32	27	4.43	40	----	"	110-120
35.54	183.60	1.240	0.7	37	31	4.49	41	----	"	"
36.02	178.50	1.410	0.8	36	30	4.55	40	----	"	"
36.58	159.70	1.360	0.9	32	26	4.62	40	----	"	120-130
37.07	116.90	0.830	0.7	23	19	4.67	38	----	"	110-120
37.55	51.90	1.400	2.7	21	17	4.74	----	6.60	Sandy SILT to Clayey SILT	130-140
38.04	12.00	0.650	5.4	12	10	4.80	----	1.28	CLAY	120-130
38.54	41.00	1.390	3.4	21	17	4.87	----	5.14	Clayey SILT to Silty CLAY	130-140
39.04	11.60	0.620	5.3	12	9	4.93	----	1.52	CLAY	120-130
39.55	23.30	0.600	2.6	12	9	4.99	----	2.77	Clayey SILT to Silty CLAY	"
40.07	91.80	1.630	1.8	31	24	5.06	36	----	Silty SAND to Sandy SILT	130-140
40.57	214.10	1.240	0.6	43	34	5.12	41	----	SAND	110-120
41.05	252.80	1.950	0.8	51	40	5.18	42	----	"	120-130
41.53	262.90	1.540	0.6	53	42	5.24	42	----	"	110-120
42.00	218.80	1.530	0.7	44	34	5.29	41	----	"	"
42.51	161.40	0.920	0.6	32	25	5.35	39	----	"	"
43.08	17.80	0.950	5.3	18	14	5.43	----	2.01	CLAY	130-140
43.58	17.10	0.660	3.9	11	9	5.49	----	1.91	Silty CLAY to CLAY	120-130
44.07	46.40	1.520	3.3	23	18	5.55	----	5.82	Clayey SILT to Silty CLAY	130-140
44.57	38.10	1.950	5.1	38	29	5.62	----	4.71	CLAY	"
45.08	114.60	1.830	1.6	29	22	5.69	37	----	SAND to Silty SAND	"
45.55	180.00	2.880	1.6	45	34	5.75	40	----	"	"
46.02	210.80	3.640	1.7	42	32	5.82	41	----	SAND	"
46.56	193.20	5.860	3.0	64	48	5.89	40	----	Silty SAND to Sandy SILT	"
47.01	197.90	3.560	1.8	49	37	5.95	40	----	SAND to Silty SAND	"
47.53	102.80	1.590	1.5	26	19	6.02	36	----	"	"
48.51	175.90	1.600	0.9	35	26	6.14	39	----	SAND	120-130
49.05	315.30	2.290	0.7	63	46	6.21	43	----	"	110-120
49.50	388.60	3.020	0.8	65	47	6.26	44	----	Gravelly SAND to SAND	120-130
50.00	405.10	2.760	0.7	68	49	6.32	44	----	"	110-120
50.51	310.50	2.880	0.9	62	45	6.38	43	----	SAND	120-130
51.00	294.00	2.650	0.9	59	42	6.44	42	----	"	"
51.55	289.90	2.740	0.9	58	41	6.51	42	----	"	"
52.03	294.80	2.860	1.0	59	42	6.57	42	----	"	"
52.52	171.80	2.930	1.7	43	30	6.64	39	----	SAND to Silty SAND	130-140
53.03	166.60	3.590	2.2	56	39	6.71	39	----	Silty SAND to Sandy SILT	"
53.52	277.00	2.440	0.9	55	39	6.77	42	----	SAND	120-130
54.05	325.70	2.660	0.8	65	46	6.84	43	----	"	"
54.55	316.10	2.330	0.7	63	44	6.89	43	----	"	110-120
55.05	276.60	1.950	0.7	55	38	6.95	42	----	"	"
55.55	269.00	1.920	0.7	54	37	7.01	42	----	"	"
56.03	311.40	3.240	1.0	62	43	7.07	42	----	"	120-130
56.52	219.80	3.770	1.7	44	30	7.13	40	----	"	130-140
57.01	221.20	3.280	1.5	44	30	7.20	40	----	"	"
57.54	259.00	2.130	0.8	52	35	7.27	41	----	"	120-130
58.04	252.20	1.780	0.7	50	34	7.32	41	----	"	110-120
58.54	109.20	2.820	2.6	36	25	7.39	36	----	Silty SAND to Sandy SILT	130-140
59.08	20.70	1.300	6.3	21	14	7.47	----	2.26	CLAY	"
60.02	100.60	3.710	3.7	40	27	7.59	----	12.91	Sandy SILT to Clayey SILT	"
60.57	116.60	2.490	2.1	39	26	7.67	37	----	Silty SAND to Sandy SILT	"
61.05	277.00	2.900	1.0	55	37	7.73	41	----	SAND	120-130
61.51	322.00	2.510	0.8	64	42	7.78	42	----	"	"
62.02	343.20	3.690	1.1	69	45	7.85	43	----	"	"
62.52	272.30	2.820	1.0	54	36	7.91	41	----	"	"
63.01	247.80	2.530	1.0	50	32	7.97	41	----	"	"
63.56	265.20	2.000	0.8	53	34	8.03	41	----	"	110-120
64.06	200.20	1.190	0.6	40	26	8.09	39	----	"	"
64.55	195.90	2.330	1.2	39	25	8.15	39	----	"	120-130

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
65.06	266.10	1.850	0.7	53	34	8.21	41	----	"	110-120
65.57	285.20	2.780	1.0	57	36	8.28	41	----	"	120-130
66.01	311.30	4.070	1.3	62	40	8.33	42	----	"	130-140
66.51	305.80	1.820	0.6	51	32	8.39	42	----	Gravelly SAND to SAND	110-120
67.03	222.40	2.280	1.0	44	28	8.46	40	----	SAND	120-130
67.56	134.70	3.760	2.8	45	28	8.53	37	----	Silty SAND to Sandy SILT	130-140
68.07	261.00	1.700	0.7	52	33	8.59	41	----	SAND	110-120
68.50	227.90	1.490	0.7	46	28	8.64	40	----	"	"
69.01	294.30	2.040	0.7	59	37	8.70	41	----	"	"
69.52	317.70	2.280	0.7	64	39	8.75	42	----	"	"
70.03	207.60	1.510	0.7	42	26	8.81	39	----	"	"
70.57	30.70	1.550	5.0	31	19	8.89	----	3.50	CLAY	130-140
71.04	22.80	1.110	4.9	23	14	8.95	----	2.44	"	"
71.51	18.30	0.850	4.6	18	11	9.01	----	1.84	"	120-130
72.00	16.50	0.820	5.0	17	10	9.07	----	1.60	"	"
72.51	18.60	0.690	3.7	12	8	9.13	----	1.87	Silty CLAY to CLAY	"
73.01	18.40	0.820	4.5	18	11	9.20	----	1.84	CLAY	"
73.52	19.70	0.830	4.2	13	8	9.26	----	2.01	Silty CLAY to CLAY	"
74.03	22.50	0.820	3.6	15	9	9.33	----	2.38	"	130-140
74.51	25.50	0.830	3.3	13	8	9.39	----	2.77	Clayey SILT to Silty CLAY	"
75.00	26.20	0.980	3.7	13	8	9.46	----	2.86	"	"
75.51	22.20	0.800	3.6	15	9	9.53	----	2.32	Silty CLAY to CLAY	"
76.01	18.30	0.700	3.8	12	7	9.59	----	1.80	"	120-130
76.51	21.10	0.790	3.7	14	8	9.65	----	2.17	"	"
77.01	22.00	0.800	3.6	15	9	9.72	----	2.29	"	130-140
77.51	30.50	1.360	4.5	20	12	9.79	----	3.41	"	"
78.01	45.60	1.740	3.8	23	13	9.85	----	5.42	Clayey SILT to Silty CLAY	"
78.50	24.90	1.310	5.3	25	14	9.92	----	2.66	CLAY	"
79.07	28.20	1.390	4.9	28	16	10.00	----	3.09	"	"
79.56	38.10	2.360	6.2	38	22	10.06	----	4.41	"	"
80.03	48.20	2.900	6.0	48	28	10.13	----	5.75	"	"

DEPTH = Sampling interval (2 inches)

Qc = Tip bearing resistance

Fs = Sleeve friction resistance

Rf = Tip/Sleeve ratio

SPT = Equivalent Standard Penetration Test*

References: * Robertson and Campanella, 1988

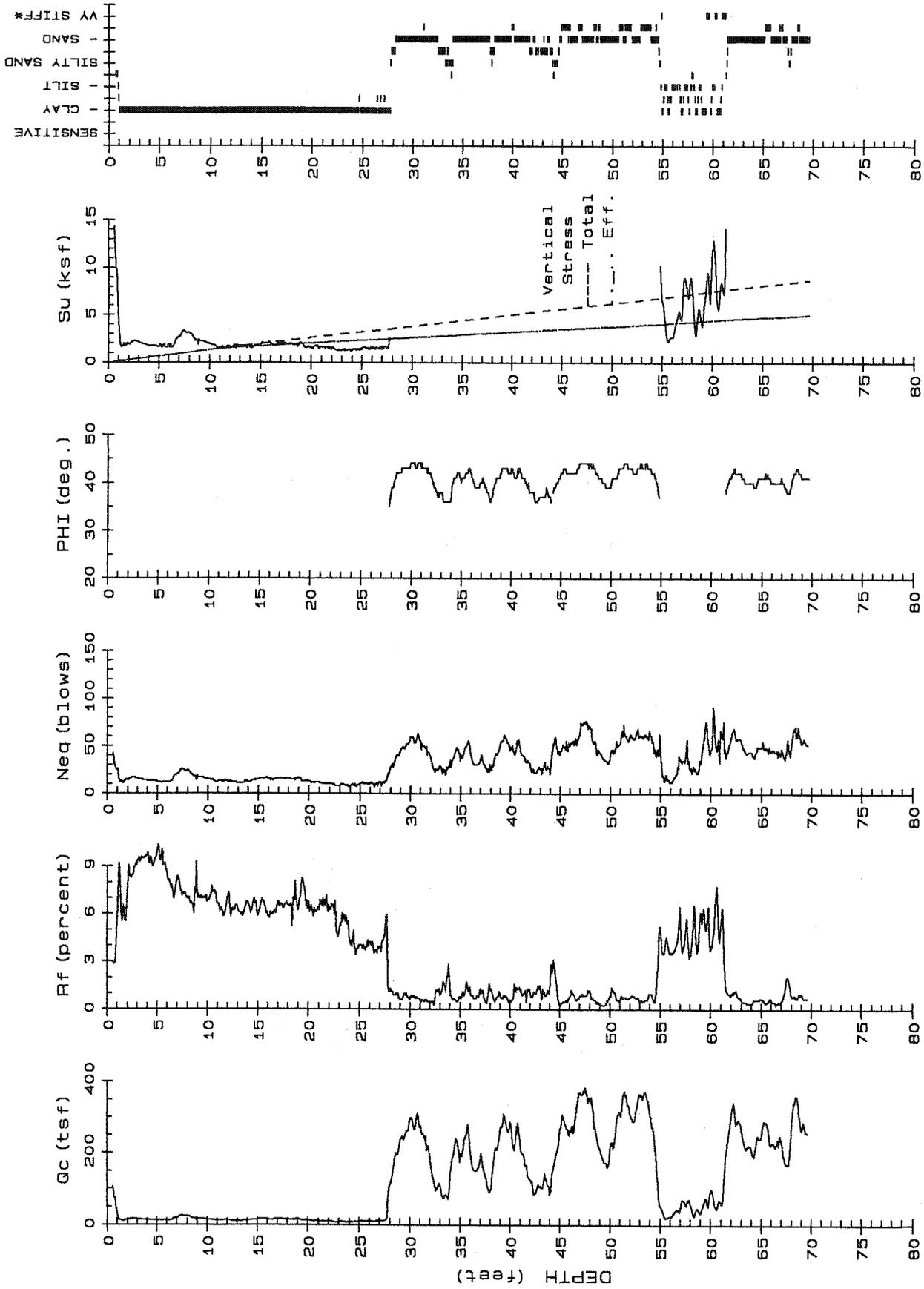
TotStr = Total Stress using est. density**

Phi = Soil friction angle*

Su = Undrained Soil Strength* (Nk=10 for Qc<9 tsf)

(Nk=12 for Qc=9 to 12 tsf) (Nk=15 for Qc>12 tsf)

** Olsen, 1989 *** Durgunoglu & Mitchell, 1975



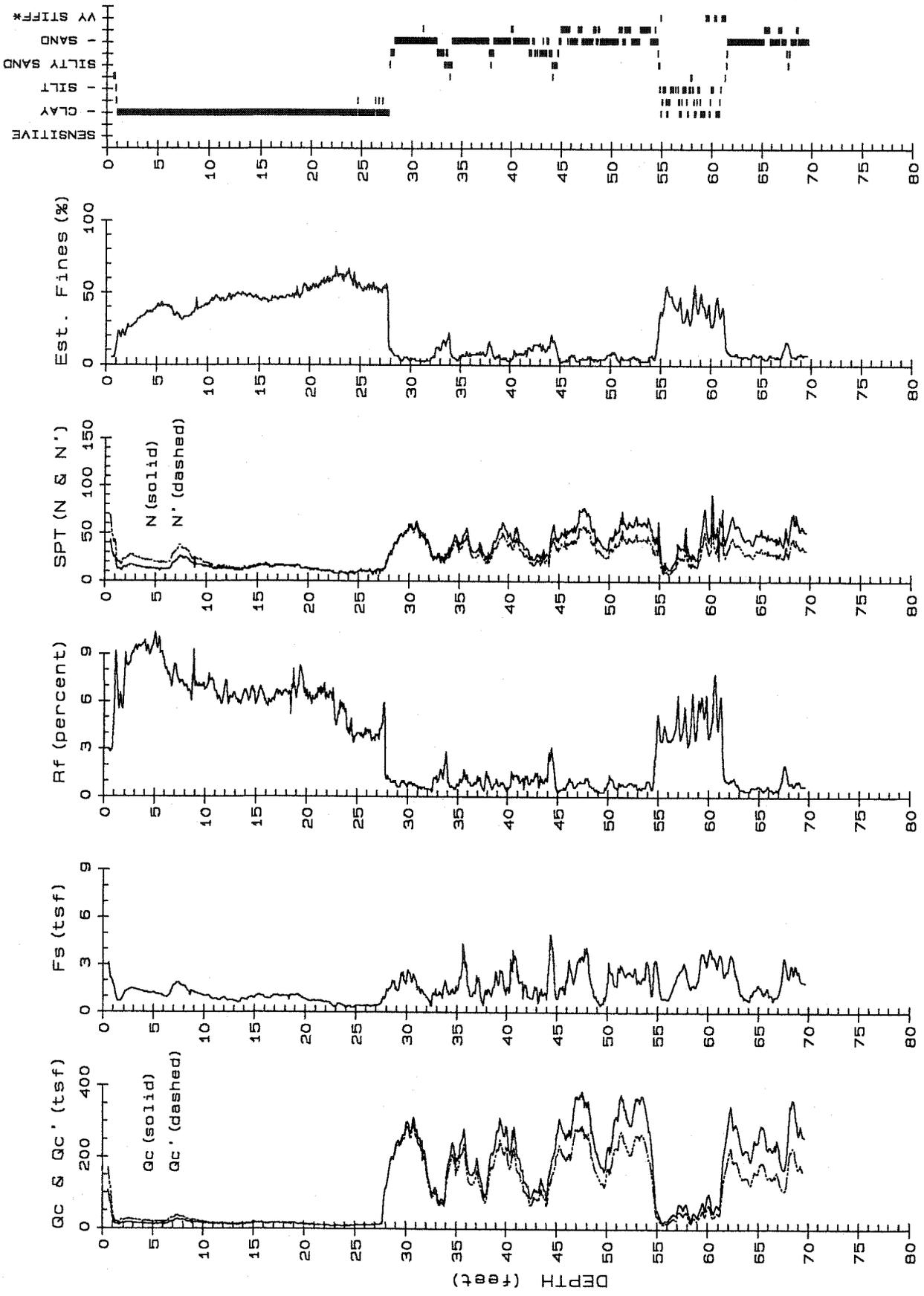
Terminated at 69.5 feet

Groundwater estimated at 11.0 feet

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

CPT NO.: CPT-2
 DATE: 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service



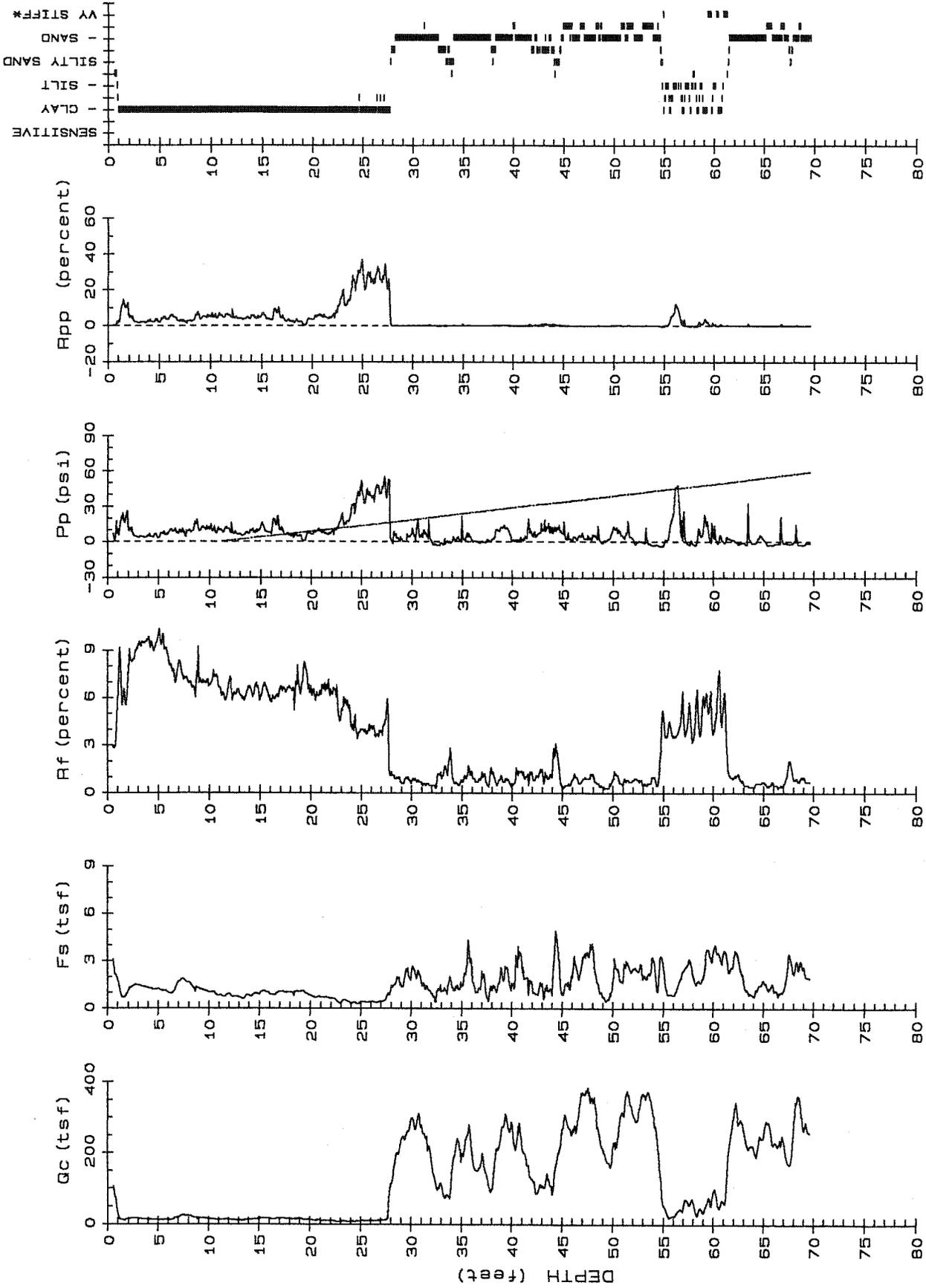
Groundwater estimated at 11.0 feet

Terminated at 69.5 feet

John Sarmiento & Associates
Cone Penetration Testing Service

CPT NO.: CPT-2
DATE: 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
LOCATION: San Jose CA
PROJ. NO.: 7123.3.001.01 (EG0-124)



Terminated at 69.5 feet

Groundwater estimated at 11.0 feet

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

CPT NO.: CPT-2
 DATE: 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-2
 DATE : 12-23-2005
 Groundwater estimated at 11.0 feet
 Terminated at 69.5 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.54	105.80	3.080	2.9	42	68	0.06	----	14.10	Sandy SILT to Clayey SILT	''
1.02	26.10	1.700	6.5	26	42	0.13	----	3.47	CLAY	''
1.57	10.60	0.690	6.5	11	17	0.20	----	1.75	''	120-130
2.05	14.20	1.160	8.2	14	23	0.26	----	1.88	''	130-140
2.56	17.10	1.430	8.4	17	27	0.33	----	2.26	''	''
3.05	15.50	1.440	9.3	16	25	0.40	----	2.04	''	''
3.54	14.60	1.370	9.4	15	23	0.46	----	1.92	''	''
4.01	13.00	1.270	9.8	13	21	0.53	----	1.70	''	''
4.58	13.30	1.200	9.0	13	21	0.60	----	1.73	''	''
5.06	11.80	1.220	10.3	12	19	0.66	----	1.91	''	120-130
5.54	11.60	1.130	9.7	12	19	0.72	----	1.87	''	''
6.08	12.10	0.970	8.0	12	19	0.79	----	1.56	''	''
6.57	15.70	1.120	7.1	16	24	0.86	----	2.04	''	130-140
7.04	20.70	1.720	8.3	21	31	0.92	----	2.70	''	''
7.51	25.10	1.820	7.3	25	36	0.98	----	3.28	''	''
8.05	23.50	1.630	6.9	24	32	1.06	----	3.06	''	''
8.52	19.10	1.250	6.5	19	26	1.12	----	2.47	''	''
9.05	17.30	1.240	7.2	17	23	1.19	----	2.23	''	''
9.52	16.50	1.150	7.0	17	21	1.25	----	2.12	''	''
10.06	15.20	1.030	6.8	15	19	1.32	----	1.94	''	120-130
10.53	13.90	1.020	7.3	14	17	1.38	----	1.76	''	''
11.01	12.50	0.830	6.6	13	15	1.44	----	1.57	''	''
11.55	13.00	0.760	5.8	13	15	1.51	----	1.63	''	''
12.02	12.40	0.910	7.3	12	14	1.57	----	1.55	''	''
12.58	12.00	0.740	6.2	12	14	1.64	----	1.49	''	''
13.05	11.40	0.700	6.1	11	13	1.70	----	1.76	''	''
13.52	11.40	0.680	6.0	11	13	1.75	----	1.75	''	''
14.06	12.10	0.790	6.5	12	13	1.82	----	1.49	''	''
14.53	14.00	0.950	6.8	14	15	1.88	----	1.74	''	''
15.00	14.90	0.880	5.9	15	16	1.94	----	1.86	''	''
15.56	16.20	1.080	6.7	16	17	2.02	----	2.03	''	130-140
16.04	15.60	0.900	5.8	16	17	2.07	----	1.94	''	120-130
16.51	14.10	0.860	6.1	14	15	2.13	----	1.74	''	''
17.05	15.90	1.060	6.7	16	17	2.21	----	1.97	''	130-140
17.51	15.90	1.000	6.3	16	17	2.26	----	1.97	''	120-130
18.05	15.90	1.030	6.5	16	16	2.34	----	1.96	''	130-140
18.51	15.30	1.070	7.0	15	16	2.40	----	1.88	''	''
19.01	16.10	1.060	6.6	16	16	2.47	----	1.98	''	''
19.54	12.80	0.970	7.6	13	13	2.53	----	1.54	''	120-130
20.00	12.50	0.840	6.7	13	13	2.59	----	1.49	''	''
20.54	11.10	0.700	6.3	11	11	2.66	----	1.63	''	''
21.00	11.50	0.710	6.2	12	11	2.72	----	1.69	''	''
21.54	11.00	0.710	6.5	11	11	2.78	----	1.60	''	''
22.07	10.80	0.670	6.2	11	11	2.85	----	1.56	''	''
22.53	7.70	0.520	6.8	8	8	2.90	----	1.25	''	110-120
23.07	8.50	0.450	5.3	9	8	2.96	----	1.40	''	''
23.53	9.10	0.500	5.5	9	9	3.02	----	1.27	''	''
24.07	8.80	0.350	4.0	9	9	3.08	----	1.45	''	''
24.53	8.80	0.340	3.9	9	9	3.13	----	1.45	''	''
25.07	10.90	0.440	4.0	11	11	3.19	----	1.55	''	''
25.54	10.80	0.400	3.7	11	11	3.25	----	1.53	''	''
26.01	10.60	0.450	4.2	11	11	3.30	----	1.49	''	''
26.55	10.40	0.380	3.7	10	10	3.36	----	1.45	''	''
27.02	11.90	0.460	3.9	12	12	3.42	----	1.70	''	120-130
27.56	12.70	0.720	5.7	13	13	3.49	----	1.46	''	''
28.02	110.90	1.450	1.3	28	27	3.55	39	----	SAND to Silty SAND	130-140
28.56	196.40	1.990	1.0	39	39	3.62	42	----	SAND	120-130
29.00	231.60	1.370	0.6	46	46	3.67	43	----	''	110-120
29.51	248.80	2.370	1.0	50	48	3.73	43	----	''	120-130
30.06	295.40	2.500	0.8	59	57	3.80	44	----	''	''
30.53	269.10	1.890	0.7	54	51	3.86	43	----	''	110-120
31.00	277.30	1.660	0.6	55	52	3.91	44	----	''	''
31.54	235.00	1.400	0.6	47	44	3.97	43	----	''	''

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
32.02	179.10	0.940	0.5	36	33	4.02	41	----	"	100-110
32.51	104.80	1.090	1.0	26	24	4.09	38	----	SAND to Silty SAND	120-130
33.01	110.10	1.110	1.0	28	25	4.15	38	----	"	"
33.52	83.30	0.920	1.1	21	19	4.21	36	----	"	"
34.03	141.10	1.320	0.9	28	25	4.28	39	----	SAND	"
34.54	233.40	1.470	0.6	47	41	4.33	42	----	"	110-120
35.03	197.80	1.450	0.7	40	34	4.39	41	----	"	"
35.53	243.60	2.730	1.1	49	42	4.45	42	----	"	120-130
36.04	201.10	1.750	0.9	40	34	4.52	41	----	"	"
36.54	149.00	1.040	0.7	30	25	4.57	39	----	"	110-120
37.04	184.60	1.880	1.0	37	31	4.64	40	----	"	120-130
37.53	133.00	0.680	0.5	27	22	4.69	39	----	"	100-110
38.04	100.60	1.290	1.3	25	21	4.75	37	----	SAND to Silty SAND	120-130
38.52	211.90	1.290	0.6	42	35	4.81	41	----	SAND	110-120
39.02	269.50	2.110	0.8	54	44	4.87	43	----	"	120-130
39.51	290.10	2.610	0.9	58	47	4.93	43	----	"	"
40.07	280.70	1.500	0.5	47	38	4.99	43	----	Gravelly SAND to SAND	110-120
40.56	244.90	2.610	1.1	49	39	5.06	42	----	SAND	120-130
41.04	213.50	2.270	1.1	43	34	5.12	41	----	"	"
41.54	163.30	1.920	1.2	33	26	5.18	40	----	"	"
42.08	124.50	1.000	0.8	25	20	5.24	38	----	"	110-120
42.57	87.80	0.880	1.0	22	17	5.30	36	----	SAND to Silty SAND	120-130
43.01	106.70	1.600	1.5	27	21	5.36	37	----	"	130-140
43.53	142.50	1.220	0.9	29	22	5.43	39	----	SAND	120-130
44.05	85.60	1.640	1.9	29	22	5.50	36	----	Silty SAND to Sandy SILT	130-140
44.50	175.80	4.290	2.4	59	45	5.56	40	----	"	"
45.00	264.40	0.890	0.3	44	34	5.61	42	----	Gravelly SAND to SAND	90-100
45.52	279.20	1.430	0.5	47	36	5.66	42	----	"	110-120
46.06	265.10	2.370	0.9	53	41	5.73	42	----	SAND	120-130
46.55	287.80	2.090	0.7	58	44	5.79	43	----	"	110-120
47.02	368.10	3.230	0.9	74	56	5.85	44	----	"	120-130
47.55	381.40	3.390	0.9	76	58	5.91	44	----	"	"
48.03	340.50	3.860	1.1	68	51	5.97	43	----	"	"
48.55	267.10	1.530	0.6	53	40	6.03	42	----	"	110-120
49.03	210.20	0.730	0.3	42	31	6.08	41	----	"	90-100
49.51	172.50	0.600	0.3	35	26	6.12	39	----	"	"
50.07	227.10	1.950	0.9	45	34	6.19	41	----	"	120-130
50.55	250.00	2.300	0.9	50	37	6.25	42	----	"	"
51.04	303.10	2.830	0.9	61	45	6.32	43	----	"	"
51.53	358.60	2.780	0.8	60	44	6.38	44	----	Gravelly SAND to SAND	"
52.00	310.20	2.480	0.8	62	45	6.44	43	----	SAND	"
52.55	306.90	2.310	0.8	61	44	6.50	43	----	"	110-120
53.02	364.00	1.990	0.5	61	44	6.55	44	----	Gravelly SAND to SAND	"
53.56	367.10	2.210	0.6	61	44	6.62	44	----	"	"
54.02	303.20	3.140	1.0	61	43	6.67	42	----	SAND	120-130
54.55	197.30	2.200	1.1	39	28	6.74	40	----	"	"
55.03	50.90	2.370	4.7	34	24	6.80	----	6.33	Silty CLAY to CLAY	130-140
55.53	20.00	0.870	4.3	20	14	6.87	----	2.21	CLAY	"
56.04	23.30	0.830	3.6	12	8	6.94	----	2.64	Clayey SILT to Silty CLAY	"
57.04	52.40	2.410	4.6	35	24	7.07	----	6.52	Silty CLAY to CLAY	"
57.58	54.20	3.100	5.7	54	38	7.15	----	6.75	CLAY	"
58.04	53.90	1.900	3.5	27	19	7.21	----	6.71	Clayey SILT to Silty CLAY	"
58.51	37.60	1.760	4.7	25	17	7.27	----	4.53	Silty CLAY to CLAY	"
59.04	37.00	2.150	5.8	37	25	7.34	----	4.44	CLAY	"
59.56	72.10	3.670	5.1	72	49	7.41	----	9.12	Very Stiff Fine Grained *	"
60.07	93.00	3.700	4.0	47	31	7.48	----	11.90	Clayey SILT to Silty CLAY	"
60.57	45.00	3.450	7.7	45	30	7.55	----	5.50	CLAY	"
61.00	62.50	3.430	5.5	63	42	7.61	----	7.83	Very Stiff Fine Grained *	"
61.56	208.80	2.280	1.1	42	28	7.68	40	----	SAND	120-130
62.04	306.10	3.210	1.0	61	41	7.74	42	----	"	"
62.52	281.00	2.980	1.1	56	37	7.80	42	----	"	"
63.07	256.40	1.390	0.5	51	34	7.86	41	----	"	110-120

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-2
 DATE : 12-23-2005
 Groundwater estimated at 11.0 feet
 Terminated at 69.5 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
63.53	211.90	0.900	0.4	42	28	7.91	40	----	"	100-110
64.00	212.50	0.790	0.4	43	28	7.96	40	----	"	"
64.54	241.50	1.470	0.6	48	32	8.02	41	----	"	110-120
65.01	251.10	1.660	0.7	50	33	8.08	41	----	"	"
65.55	281.90	1.300	0.5	47	31	8.13	41	----	Gravelly SAND to SAND	100-110
66.03	224.70	1.070	0.5	45	29	8.18	40	----	SAND	"
66.52	220.90	0.890	0.4	44	29	8.23	40	----	"	"
67.00	237.00	1.110	0.5	47	31	8.29	40	----	"	"
67.57	167.10	3.420	2.0	56	36	8.36	38	----	Silty SAND to Sandy SILT	130-140
68.05	283.30	2.160	0.8	57	36	8.42	41	----	SAND	120-130
68.50	356.50	2.380	0.7	59	38	8.47	43	----	Gravelly SAND to SAND	110-120
69.04	261.30	2.620	1.0	52	33	8.54	41	----	SAND	120-130
69.60	254.90	1.900	0.7	51	32	8.61	41	----	"	110-120

DEPTH = Sampling interval (2 inches)

Qc = Tip bearing resistance

Fs = Sleeve friction resistance

Rf = Tip/Sleeve ratio

SPT = Equivalent Standard Penetration Test*

References: * Robertson and Campanella, 1988

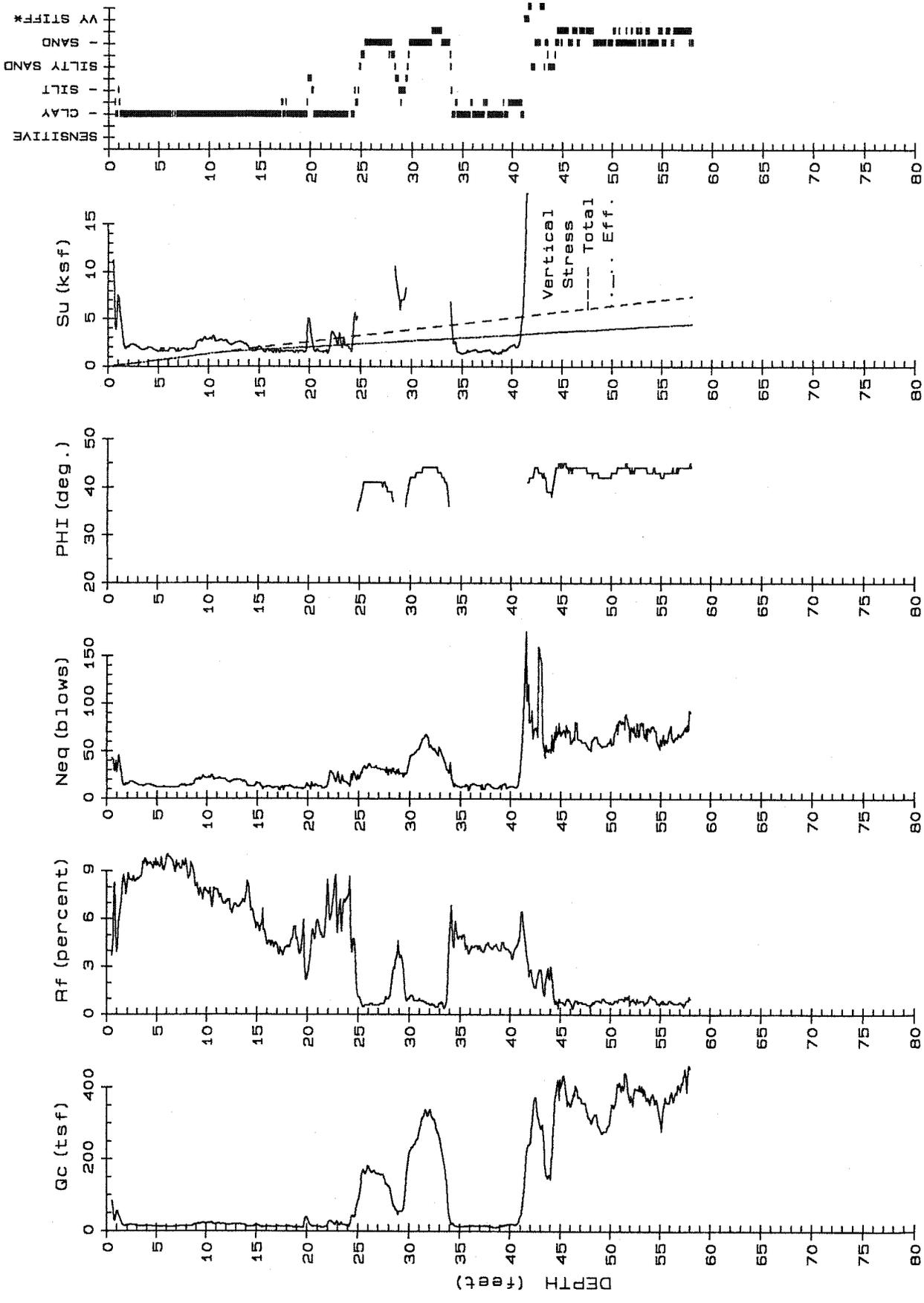
TotStr = Total Stress using est. density**

Phi = Soil friction angle*

Su = Undrained Soil Strength* (Nk=10 for Qc<9 tsf)

(Nk=12 for Qc=9 to 12 tsf) (Nk=15 for Qc>12 tsf)

** Olsen, 1989 *** Durgunoglu & Mitchell, 1975



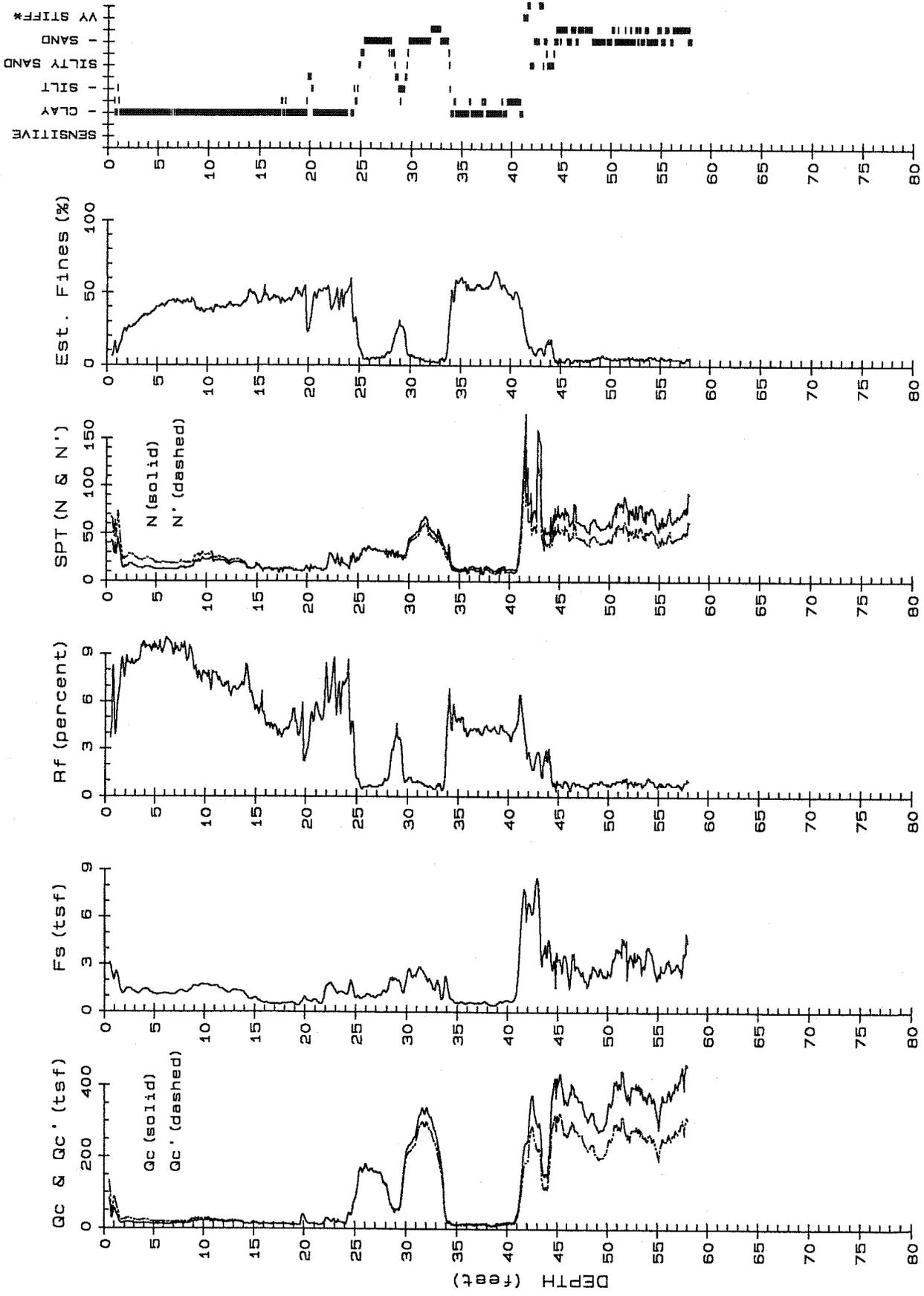
Groundwater measured at 11.0 feet

Terminated at 58.0 feet

CPT NO.: CPT-3
DATE : 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
LOCATION: San Jose CA
PROJ. NO.: 7123.3.001.01 (EGO-124)

John Sarmiento & Associates
Cone Penetration Testing Service



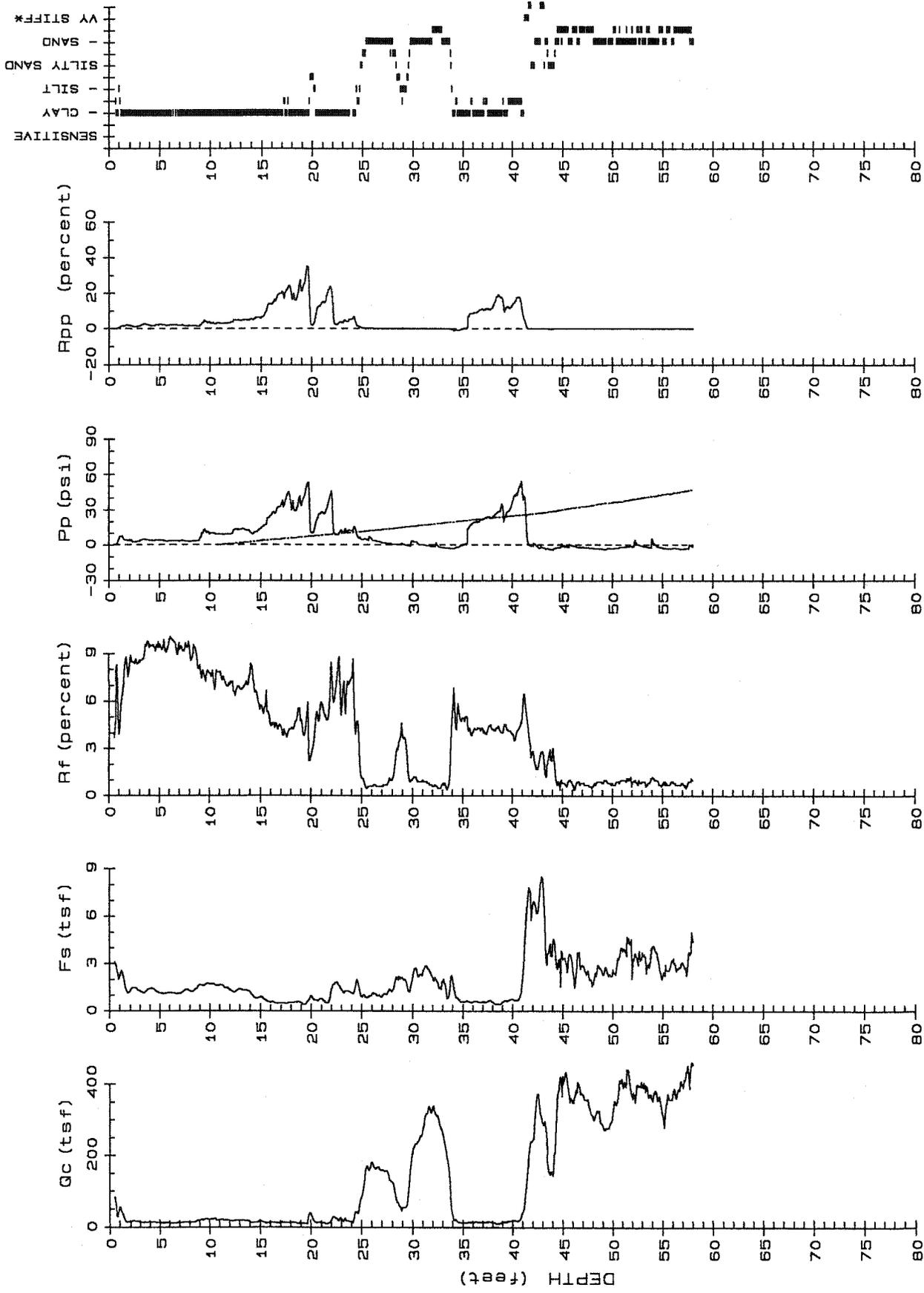
Groundwater measured at 11.0 feet

Terminated at 58.0 feet

John Sarmiento & Associates
Cone Penetration Testing Service

CPT NO.: CPT-3
DATE: 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
LOCATION: San Jose CA
PROJ. NO.: 7123.3.001.01 (EG0-124)



Groundwater measured at 11.0 feet

Terminated at 58.0 feet

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)
 CPT NO.: CPT-3
 DATE: 12-23-2005
John Sarmiento & Associates
 Cone Penetration Testing Service

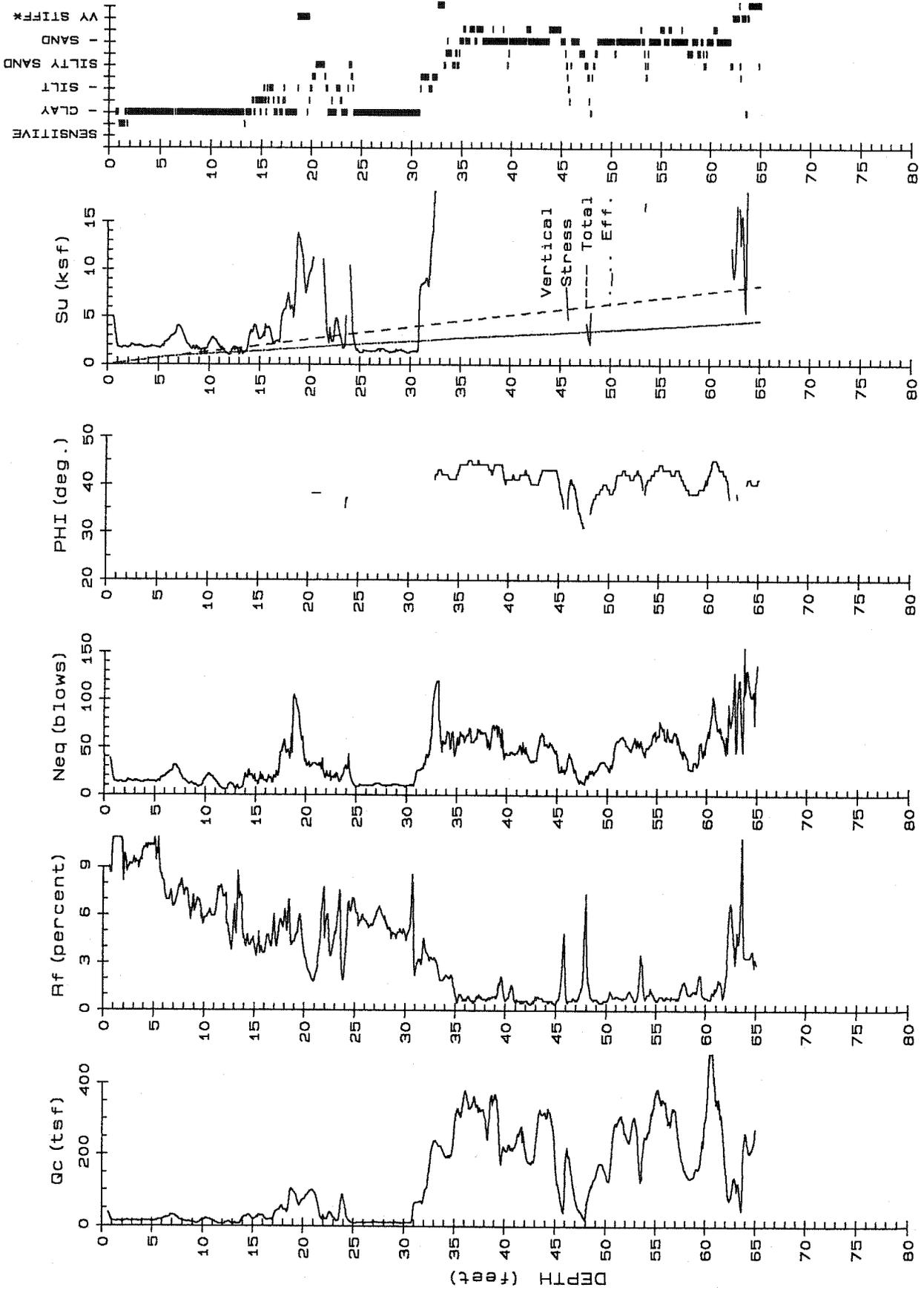
PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-3
 DATE : 12-23-2005
 Groundwater measured at 11.0 feet
 Terminated at 58.0 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.50	83.10	3.090	3.7	42	66	0.06	----	11.08	Clayey SILT to Silty CLAY	130-140
1.06	54.50	2.400	4.4	36	58	0.13	----	7.26	Silty CLAY to CLAY	"
1.50	20.10	1.560	7.8	20	32	0.19	----	2.67	CLAY	"
2.03	15.70	1.340	8.5	16	25	0.26	----	2.08	"	"
2.59	16.60	1.430	8.6	17	27	0.34	----	2.19	"	"
3.05	14.80	1.240	8.4	15	24	0.40	----	1.95	"	"
3.51	13.70	1.220	8.9	14	22	0.46	----	1.80	"	"
4.07	15.10	1.430	9.5	15	24	0.54	----	1.98	"	"
4.52	13.70	1.280	9.3	14	22	0.60	----	1.79	"	"
5.07	12.00	1.140	9.5	12	19	0.67	----	1.56	"	120-130
5.50	11.80	1.130	9.6	12	19	0.72	----	1.91	"	"
6.09	11.80	1.180	10.0	12	19	0.80	----	1.90	"	"
7.03	12.20	1.120	9.2	12	18	0.91	----	1.57	"	"
7.57	14.20	1.360	9.6	14	20	0.99	----	1.83	"	130-140
8.04	13.60	1.270	9.3	14	19	1.05	----	1.74	"	"
8.50	14.50	1.350	9.3	15	19	1.11	----	1.86	"	"
9.07	20.40	1.670	8.2	20	27	1.19	----	2.64	"	"
9.52	22.20	1.660	7.5	22	28	1.25	----	2.88	"	"
10.07	22.20	1.710	7.7	22	27	1.33	----	2.87	"	"
10.53	24.90	1.670	6.7	25	30	1.39	----	3.23	"	"
11.08	21.20	1.650	7.8	21	25	1.46	----	2.73	"	"
11.54	20.70	1.490	7.2	21	24	1.52	----	2.66	"	"
12.08	18.10	1.300	7.2	18	21	1.60	----	2.31	"	"
12.51	19.10	1.210	6.3	19	22	1.65	----	2.44	"	"
13.05	20.40	1.370	6.7	20	23	1.73	----	2.60	"	"
13.59	18.30	1.320	7.2	18	20	1.80	----	2.32	"	"
14.04	13.70	1.140	8.3	14	15	1.86	----	1.70	"	120-130
14.57	12.50	0.810	6.5	13	14	1.92	----	1.54	"	"
15.02	16.40	0.930	5.7	16	18	1.98	----	2.05	"	"
15.55	10.10	0.670	6.6	10	11	2.04	----	1.51	"	"
16.03	13.10	0.580	4.4	13	14	2.10	----	1.61	"	"
16.57	11.40	0.510	4.5	11	12	2.17	----	1.72	"	"
17.02	12.10	0.520	4.3	12	13	2.23	----	1.46	"	"
17.56	13.40	0.490	3.7	9	9	2.30	----	1.63	Silty CLAY to CLAY	"
18.01	12.90	0.560	4.3	13	13	2.35	----	1.56	CLAY	"
18.55	12.00	0.570	4.8	12	12	2.42	----	1.44	"	"
19.08	11.00	0.490	4.5	11	11	2.49	----	1.63	"	"
19.52	10.50	0.540	5.1	11	11	2.54	----	1.54	"	"
20.07	33.40	0.910	2.7	13	13	2.61	----	4.28	Sandy SILT to Clayey SILT	130-140
20.51	12.90	0.690	5.3	13	13	2.67	----	1.54	CLAY	120-130
21.05	13.00	0.750	5.8	13	13	2.74	----	1.55	"	"
21.58	10.90	0.520	4.8	11	11	2.80	----	1.58	"	"
22.02	20.80	1.510	7.3	21	21	2.86	----	2.58	"	130-140
22.58	23.40	1.790	7.6	23	23	2.94	----	2.92	"	"
23.02	22.40	1.290	5.8	22	22	3.00	----	2.79	"	"
23.55	17.70	1.270	7.2	18	18	3.07	----	2.16	"	"
24.01	14.90	1.120	7.5	15	15	3.13	----	1.78	"	"
24.52	41.80	1.980	4.7	28	28	3.20	----	5.36	Silty CLAY to CLAY	"
25.04	89.00	0.950	1.1	22	22	3.27	37	----	SAND to Silty SAND	120-130
25.54	169.60	0.870	0.5	34	34	3.32	41	----	SAND	100-110
26.08	178.50	1.160	0.6	36	35	3.38	41	----	"	110-120
26.51	166.00	0.970	0.6	33	33	3.43	41	----	"	"
27.00	159.30	0.950	0.6	32	32	3.49	41	----	"	"
27.57	150.40	1.230	0.8	30	30	3.56	40	----	"	120-130
28.05	124.00	1.350	1.1	31	30	3.62	39	----	SAND to Silty SAND	"
28.54	68.80	1.990	2.9	28	27	3.68	----	8.93	Sandy SILT to Clayey SILT	130-140
29.03	54.40	2.020	3.7	27	26	3.75	----	7.00	Clayey SILT to Silty CLAY	"
29.53	79.50	1.350	1.7	27	25	3.82	36	----	Silty SAND to Sandy SILT	"
30.02	220.50	2.390	1.1	44	41	3.88	42	----	SAND	120-130
30.51	239.20	2.190	0.9	48	44	3.94	43	----	"	"
31.07	282.70	2.610	0.9	57	52	4.01	43	----	"	"
31.53	329.50	2.670	0.8	66	60	4.07	44	----	"	"
32.06	336.20	1.920	0.6	56	50	4.13	44	----	Gravelly SAND to SAND	110-120

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
32.52	301.40	1.630	0.5	50	45	4.18	44	----	"	"
33.04	248.30	2.010	0.8	50	44	4.25	42	----	SAND	120-130
33.57	165.30	0.960	0.6	33	29	4.31	40	----	"	110-120
34.04	28.50	1.670	5.9	29	24	4.37	----	3.51	CLAY	130-140
34.53	13.70	0.800	5.8	14	12	4.43	----	1.53	"	120-130
35.04	12.30	0.600	4.9	12	10	4.50	----	1.34	"	"
35.50	13.80	0.640	4.6	14	11	4.55	----	1.54	"	"
36.08	15.20	0.620	4.1	15	12	4.63	----	1.72	"	"
36.53	14.50	0.620	4.3	15	12	4.68	----	1.62	"	"
37.07	14.90	0.590	4.0	10	8	4.75	----	1.67	Silty CLAY to CLAY	"
37.52	15.10	0.640	4.2	15	12	4.81	----	1.69	CLAY	"
38.06	13.00	0.540	4.2	13	10	4.87	----	1.41	"	"
38.51	10.70	0.460	4.3	11	9	4.92	----	1.37	"	110-120
39.06	15.60	0.620	4.0	10	8	4.99	----	1.75	Silty CLAY to CLAY	120-130
39.50	16.00	0.670	4.2	16	13	5.05	----	1.80	CLAY	"
40.04	19.20	0.740	3.9	13	10	5.12	----	2.22	Silty CLAY to CLAY	"
40.58	18.20	0.760	4.2	12	10	5.18	----	2.08	"	"
41.03	38.80	2.100	5.4	39	30	5.24	----	4.82	CLAY	130-140
41.54	174.40	7.410	4.2	174	136	5.32	----	22.90	Very Stiff Fine Grained *	>140
42.03	245.40	6.810	2.8	82	64	5.38	42	----	Silty SAND to Sandy SILT	130-140
42.54	368.30	6.350	1.7	74	57	5.45	44	----	SAND	"
43.07	283.60	7.610	2.7	142	109	5.52	42	----	SAND to Clayey SAND *	"
43.54	169.40	3.630	2.1	56	43	5.59	39	----	Silty SAND to Sandy SILT	"
44.01	143.90	4.330	3.0	48	36	5.65	39	----	"	"
44.50	373.00	2.940	0.8	62	47	5.71	44	----	Gravelly SAND to SAND	120-130
44.59	390.50	2.900	0.7	65	49	5.72	44	----	"	"
45.03	397.10	3.350	0.8	66	50	5.78	44	----	"	"
45.55	385.60	3.400	0.9	77	58	5.84	44	----	SAND	"
46.04	347.30	2.260	0.7	58	43	5.90	43	----	Gravelly SAND to SAND	110-120
46.54	398.40	3.660	0.9	80	59	5.96	44	----	SAND	120-130
47.04	364.30	2.830	0.8	61	45	6.02	44	----	Gravelly SAND to SAND	"
47.51	345.30	2.500	0.7	58	42	6.08	43	----	"	110-120
48.01	308.30	1.760	0.6	51	38	6.13	43	----	"	"
48.10	297.90	1.910	0.6	60	44	6.14	43	----	SAND	"
48.51	323.20	2.900	0.9	65	47	6.20	43	----	"	120-130
49.01	281.20	2.310	0.8	56	41	6.26	42	----	"	"
49.55	276.70	2.200	0.8	55	40	6.33	42	----	"	"
50.00	316.70	2.630	0.8	63	46	6.38	43	----	"	"
50.51	352.80	3.350	0.9	71	50	6.45	43	----	"	"
51.03	394.00	3.750	1.0	79	56	6.51	44	----	"	"
51.54	438.30	4.320	1.0	88	62	6.57	45	----	"	"
52.01	357.60	3.210	0.9	72	51	6.63	43	----	"	"
52.56	392.00	2.900	0.7	65	46	6.70	44	----	Gravelly SAND to SAND	"
53.03	392.90	3.540	0.9	79	55	6.76	44	----	SAND	"
53.53	376.30	2.810	0.7	63	44	6.82	44	----	Gravelly SAND to SAND	"
54.03	351.30	4.070	1.2	70	49	6.89	43	----	SAND	130-140
54.55	355.90	3.130	0.9	71	49	6.96	43	----	"	120-130
55.01	309.80	2.180	0.7	62	43	7.01	42	----	"	110-120
55.53	370.70	2.590	0.7	62	42	7.07	43	----	Gravelly SAND to SAND	"
56.02	379.00	3.230	0.9	76	52	7.13	44	----	SAND	120-130
56.51	378.70	2.680	0.7	63	43	7.19	43	----	Gravelly SAND to SAND	110-120
57.02	391.50	2.960	0.8	65	44	7.25	44	----	"	120-130
57.54	444.80	3.570	0.8	74	50	7.31	44	----	"	"
58.03	450.80	4.390	1.0	90	61	7.38	44	----	SAND	"

DEPTH = Sampling interval (2 inches)
 Qc = Tip bearing resistance TotStr = Total Stress using est. density**
 Fs = Sleeve friction resistance Phi = Soil friction angle*
 Rf = Tip/Sleeve ratio Su = Undrained Soil Strength* (Nk=10 for Qc<9 tsf)
 SPT = Equivalent Standard Penetration Test* (Nk=12 for Qc=9 to 12 tsf) (Nk=15 for Qc>12 tsf)
 References: * Robertson and Campanella, 1988
 ** Olsen, 1989 *** Durgunoglu & Mitchell, 1975



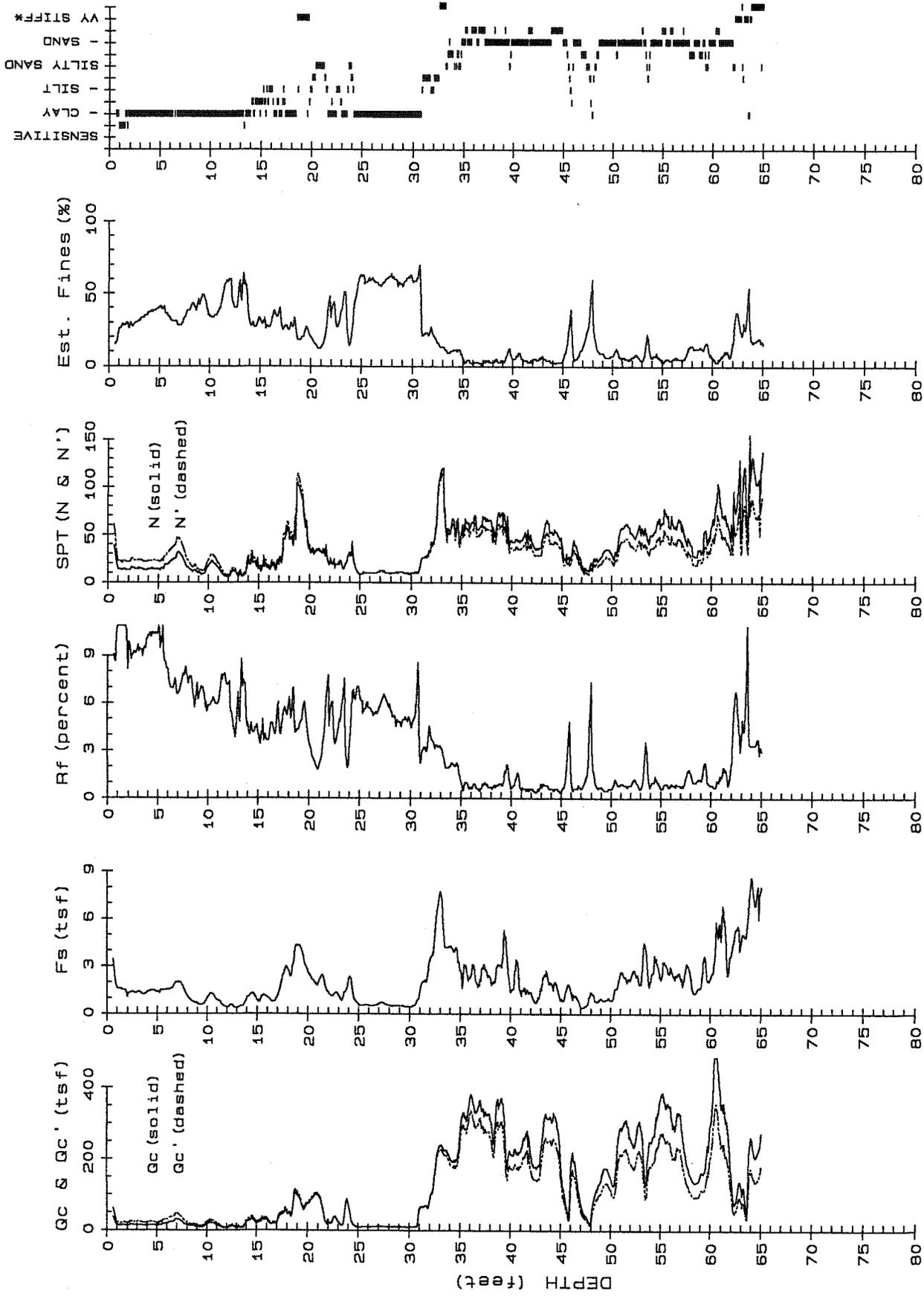
Groundwater measured at 6.2 feet

Terminated at 65.0 feet

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

CPT NO.: CPT-4
 DATE : 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service



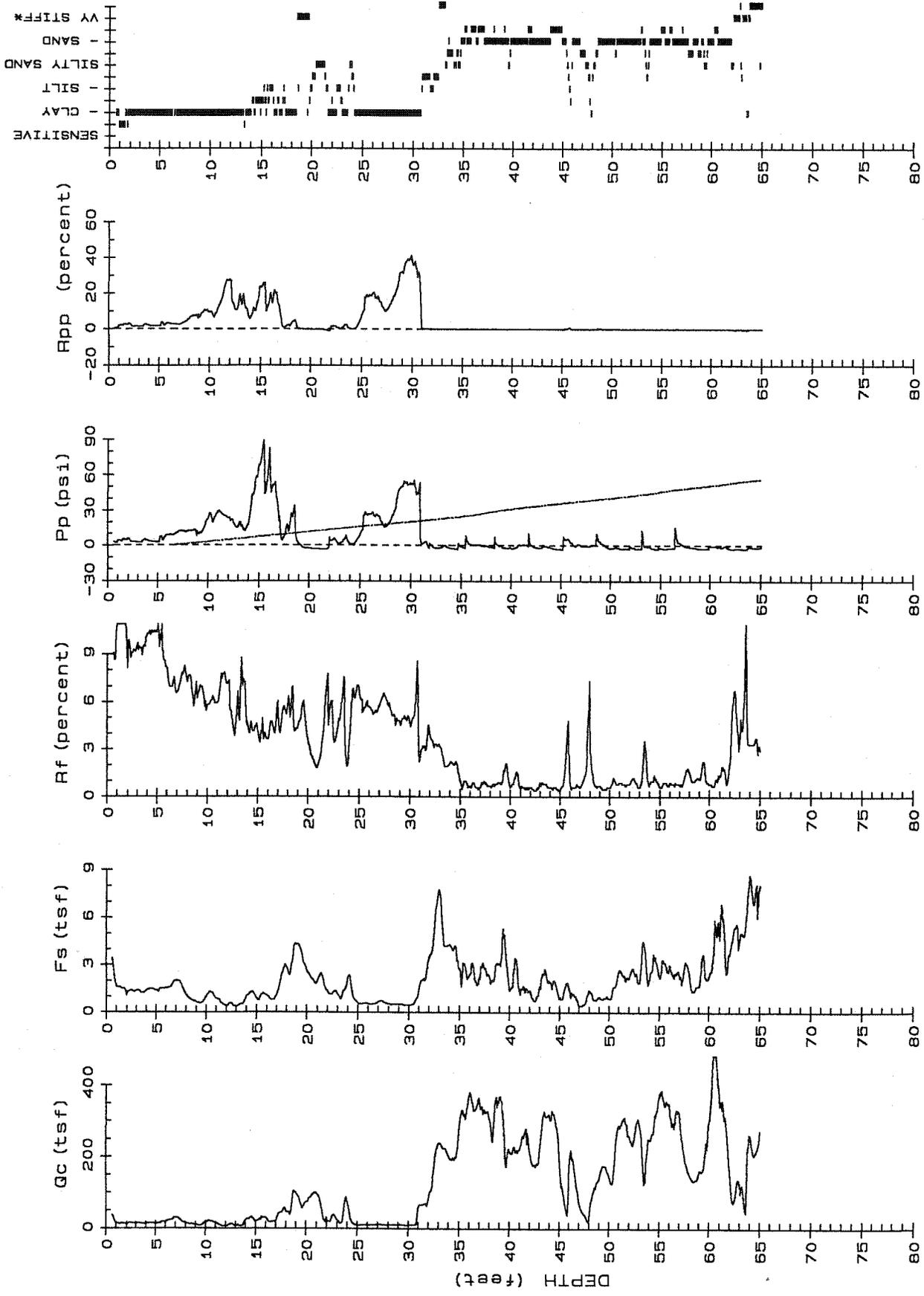
Groundwater measured at 6.2 feet

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CPT NO.: CPT-4
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PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
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John Sarmiento & Associates
 Cone Penetration Testing Service



Groundwater measured at 6.2 feet

Terminated at 65.0 feet

John Sarmiento & Associates
Cone Penetration Testing Service

CPT NO.: CPT-4
 DATE: 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.58	37.50	3.390	9.0	38	60	0.07	----	5.00	CLAY	130-140
1.04	13.80	1.600	11.6	14	22	0.13	----	1.83	Organic Material	"
1.58	13.80	1.510	10.9	14	22	0.20	----	1.83	CLAY	"
2.03	13.30	1.280	9.6	13	21	0.26	----	1.76	"	"
2.56	14.50	1.340	9.2	15	23	0.34	----	1.91	"	"
3.03	14.30	1.370	9.6	14	23	0.40	----	1.88	"	"
3.58	13.20	1.230	9.3	13	21	0.47	----	1.73	"	"
4.05	13.80	1.410	10.2	14	22	0.54	----	1.80	"	"
4.51	14.10	1.460	10.4	14	23	0.60	----	1.84	"	"
5.06	13.00	1.400	10.8	13	21	0.67	----	1.69	"	"
5.58	16.30	1.510	9.3	16	26	0.74	----	2.12	"	"
6.03	19.30	1.540	8.0	19	31	0.80	----	2.52	"	"
7.02	30.50	2.000	6.6	31	46	0.94	----	4.00	"	"
7.57	21.30	1.650	7.7	21	32	1.01	----	2.77	"	"
8.01	15.20	1.100	7.2	15	22	1.07	----	1.96	"	"
8.56	12.00	0.760	6.3	12	17	1.14	----	1.52	"	120-130
9.01	10.70	0.660	6.2	11	15	1.20	----	1.68	"	"
9.54	9.00	0.610	6.8	9	12	1.26	----	1.39	"	"
10.00	17.10	0.980	5.7	17	23	1.32	----	2.19	"	130-140
10.54	20.10	1.270	6.3	20	27	1.40	----	2.59	"	"
11.08	14.40	0.860	6.0	14	19	1.46	----	1.82	"	120-130
11.52	7.70	0.590	7.7	8	10	1.52	----	1.39	"	110-120
12.07	6.10	0.440	7.2	6	8	1.58	----	1.06	"	"
12.55	12.00	0.550	4.6	12	15	1.64	----	1.49	"	120-130
13.01	6.10	0.400	6.6	6	8	1.69	----	1.05	"	110-120
13.55	7.20	0.530	7.4	7	9	1.75	----	1.26	"	"
14.09	26.70	1.090	4.1	18	22	1.83	----	3.44	Silty CLAY to CLAY	130-140
14.53	31.60	1.280	4.1	21	26	1.89	----	4.09	"	"
15.07	20.80	0.830	4.0	14	17	1.96	----	2.64	"	"
15.55	31.70	1.150	3.6	16	19	2.02	----	4.09	Clayey SILT to Silty CLAY	"
16.08	26.60	0.990	3.7	13	15	2.10	----	3.41	"	"
16.53	18.20	0.800	4.4	18	21	2.15	----	2.28	CLAY	120-130
17.06	24.00	1.220	5.1	24	27	2.22	----	3.05	"	130-140
17.50	44.30	2.390	5.4	44	50	2.28	----	5.75	"	"
18.03	44.20	2.780	6.3	44	49	2.35	----	5.74	"	"
18.55	62.50	3.140	5.0	63	69	2.43	----	8.17	Very Stiff Fine Grained *	"
19.02	94.80	4.290	4.5	95	103	2.49	----	12.47	"	"
19.53	60.10	3.600	6.0	60	64	2.56	----	7.84	"	"
20.04	74.70	2.480	3.3	30	32	2.63	----	9.78	Sandy SILT to Clayey SILT	"
20.53	91.80	2.100	2.3	31	32	2.69	38	----	Silty SAND to Sandy SILT	"
21.02	96.60	1.990	2.1	32	34	2.76	38	----	"	"
21.51	53.30	2.230	4.2	27	28	2.82	----	6.92	Clayey SILT to Silty CLAY	"
22.08	24.20	1.260	5.2	24	25	2.90	----	3.03	CLAY	"
22.50	30.40	1.170	3.8	15	15	2.96	----	3.86	Clayey SILT to Silty CLAY	"
23.01	23.20	1.140	4.9	23	23	3.03	----	2.89	CLAY	"
23.53	19.20	1.360	7.1	19	19	3.10	----	2.35	"	"
24.04	68.30	2.290	3.4	27	27	3.17	----	8.90	Sandy SILT to Clayey SILT	"
24.56	14.80	0.920	6.2	15	15	3.23	----	1.76	CLAY	120-130
25.08	9.10	0.560	6.2	9	9	3.30	----	1.24	"	"
25.51	10.40	0.580	5.6	10	10	3.35	----	1.45	"	"
26.03	9.80	0.550	5.6	10	10	3.41	----	1.35	"	"
26.56	10.40	0.550	5.3	10	10	3.48	----	1.44	"	"
27.00	12.00	0.680	5.7	12	12	3.54	----	1.36	"	"
27.53	10.40	0.650	6.3	10	10	3.60	----	1.43	"	"
28.07	9.80	0.540	5.5	10	10	3.67	----	1.33	"	"
28.51	10.10	0.510	5.0	10	10	3.72	----	1.37	"	"
29.01	11.00	0.520	4.7	11	11	3.79	----	1.52	"	"
29.54	9.70	0.480	4.9	10	10	3.85	----	1.30	"	110-120
30.08	10.40	0.460	4.4	10	10	3.91	----	1.41	"	"
30.52	10.50	0.580	5.5	11	10	3.97	----	1.42	"	120-130
31.05	62.90	1.600	2.5	25	25	4.04	----	8.12	Sandy SILT to Clayey SILT	130-140
31.57	69.60	2.020	2.9	28	27	4.11	----	9.01	"	"
32.07	96.80	3.560	3.7	39	38	4.17	----	12.63	"	"

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
32.58	176.30	5.890	3.3	88	85	4.24	41	----	SAND to Clayey SAND *	"
33.05	238.30	7.480	3.1	119	113	4.31	43	----	"	>140
33.52	223.60	4.170	1.9	45	42	4.37	42	----	SAND	130-140
34.07	196.80	4.280	2.2	66	61	4.45	41	----	Silty SAND to Sandy SILT	"
34.56	190.70	4.180	2.2	64	58	4.51	41	----	"	"
35.01	266.10	2.730	1.0	53	48	4.57	43	----	SAND	120-130
35.55	316.40	3.050	1.0	63	56	4.64	44	----	"	"
36.00	369.80	2.410	0.7	62	55	4.69	45	----	Gravelly SAND to SAND	110-120
36.56	327.90	2.000	0.6	55	48	4.75	44	----	"	"
37.03	352.50	2.100	0.6	59	51	4.81	44	----	"	"
37.53	330.70	2.770	0.8	66	57	4.87	44	----	SAND	120-130
38.05	300.40	1.830	0.6	50	42	4.93	43	----	Gravelly SAND to SAND	110-120
38.56	339.90	2.870	0.8	68	57	4.99	44	----	SAND	120-130
39.03	366.10	3.080	0.8	73	61	5.05	44	----	"	"
39.54	208.20	4.340	2.1	69	57	5.12	41	----	Silty SAND to Sandy SILT	130-140
40.04	211.70	1.500	0.7	42	35	5.18	41	----	SAND	110-120
40.55	223.40	3.400	1.5	45	36	5.25	41	----	"	130-140
41.04	222.00	1.170	0.5	44	36	5.30	41	----	"	110-120
41.56	268.00	1.320	0.5	45	36	5.36	42	----	Gravelly SAND to SAND	100-110
42.05	211.70	1.350	0.6	42	34	5.41	41	----	SAND	110-120
42.53	178.40	0.730	0.4	36	29	5.46	40	----	"	100-110
43.00	209.70	1.570	0.7	42	34	5.52	41	----	"	110-120
43.53	324.80	2.730	0.8	65	52	5.59	43	----	"	120-130
44.06	303.90	1.910	0.6	51	40	5.65	43	----	Gravelly SAND to SAND	110-120
44.52	311.50	1.960	0.6	52	41	5.70	43	----	"	"
45.05	163.30	0.960	0.6	33	26	5.76	39	----	SAND	"
45.51	75.30	1.450	1.9	25	20	5.82	35	----	Silty SAND to Sandy SILT	130-140
46.06	191.80	1.240	0.6	38	30	5.88	40	----	SAND	110-120
46.53	162.80	1.040	0.6	33	25	5.94	39	----	"	"
47.03	70.30	0.450	0.6	18	14	5.99	34	----	SAND to Silty SAND	100-110
47.54	39.40	0.540	1.4	13	10	6.06	31	----	Silty SAND to Sandy SILT	120-130
48.05	43.90	1.360	3.1	18	13	6.12	----	5.45	Sandy SILT to Clayey SILT	130-140
48.56	114.70	0.790	0.7	23	18	6.18	37	----	SAND	110-120
49.04	139.90	0.990	0.7	28	21	6.24	38	----	"	"
49.55	174.70	0.930	0.5	35	26	6.30	40	----	"	"
50.06	139.70	0.870	0.6	28	21	6.35	38	----	"	"
50.56	168.60	1.630	1.0	34	25	6.42	39	----	"	120-130
51.03	286.70	2.660	0.9	57	43	6.48	42	----	"	"
51.58	307.40	2.120	0.7	61	46	6.54	43	----	"	110-120
52.06	253.90	2.360	0.9	51	38	6.60	42	----	"	120-130
52.52	250.10	2.450	1.0	50	37	6.66	42	----	"	"
53.04	286.00	1.900	0.7	57	42	6.72	42	----	"	110-120
53.54	129.80	4.070	3.1	52	38	6.78	----	16.85	Sandy SILT to Clayey SILT	130-140
54.05	247.90	2.130	0.9	50	36	6.85	41	----	SAND	120-130
54.53	290.90	3.370	1.2	58	42	6.91	42	----	"	"
55.02	368.70	2.240	0.6	61	44	6.96	44	----	Gravelly SAND to SAND	110-120
55.50	359.50	3.170	0.9	72	52	7.02	43	----	SAND	120-130
56.03	347.80	2.990	0.9	70	50	7.09	43	----	"	"
56.52	277.60	2.430	0.9	56	39	7.15	42	----	"	"
57.01	322.00	2.200	0.7	54	38	7.21	43	----	Gravelly SAND to SAND	110-120
57.50	214.70	2.750	1.3	43	30	7.28	40	----	SAND	130-140
58.04	150.90	2.150	1.4	38	26	7.35	38	----	SAND to Silty SAND	"
58.50	133.20	1.360	1.0	27	19	7.41	38	----	SAND	120-130
59.05	159.80	1.820	1.1	32	22	7.47	39	----	"	"
59.52	179.30	3.270	1.8	45	31	7.54	39	----	SAND to Silty SAND	130-140
60.00	287.30	2.260	0.8	57	40	7.60	42	----	SAND	120-130
60.51	510.40	4.480	0.9	85	59	7.66	45	----	Gravelly SAND to SAND	"
61.07	339.60	4.580	1.3	68	46	7.74	43	----	SAND	130-140
61.51	309.50	4.950	1.6	62	42	7.80	42	----	"	"
61.59	306.50	3.930	1.3	61	42	7.81	42	----	"	"
62.02	160.40	3.640	2.3	53	36	7.86	38	----	Silty SAND to Sandy SILT	"
62.54	85.50	5.340	6.2	86	58	7.94	----	10.87	Very Stiff Fine Grained *	>140

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-4
 DATE : 12-23-2005
 Groundwater measured at 6.2 feet
 Terminated at 65.0 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
63.06	111.00	4.720	4.3	111	75	8.01	----	14.27	"	130-140
63.51	55.10	4.830	8.8	55	37	8.07	----	6.81	CLAY	"
64.05	259.00	8.550	3.3	130	86	8.14	41	----	SAND to Clayey SAND *	>140
64.54	206.80	7.430	3.6	103	68	8.21	40	----	"	"
65.01	271.00	7.980	2.9	136	89	8.28	41	----	"	"

DEPTH = Sampling interval (2 inches)

Qc = Tip bearing resistance

TotStr = Total Stress using est. density**

Fs = Sleeve friction resistance

Phi = Soil friction angle*

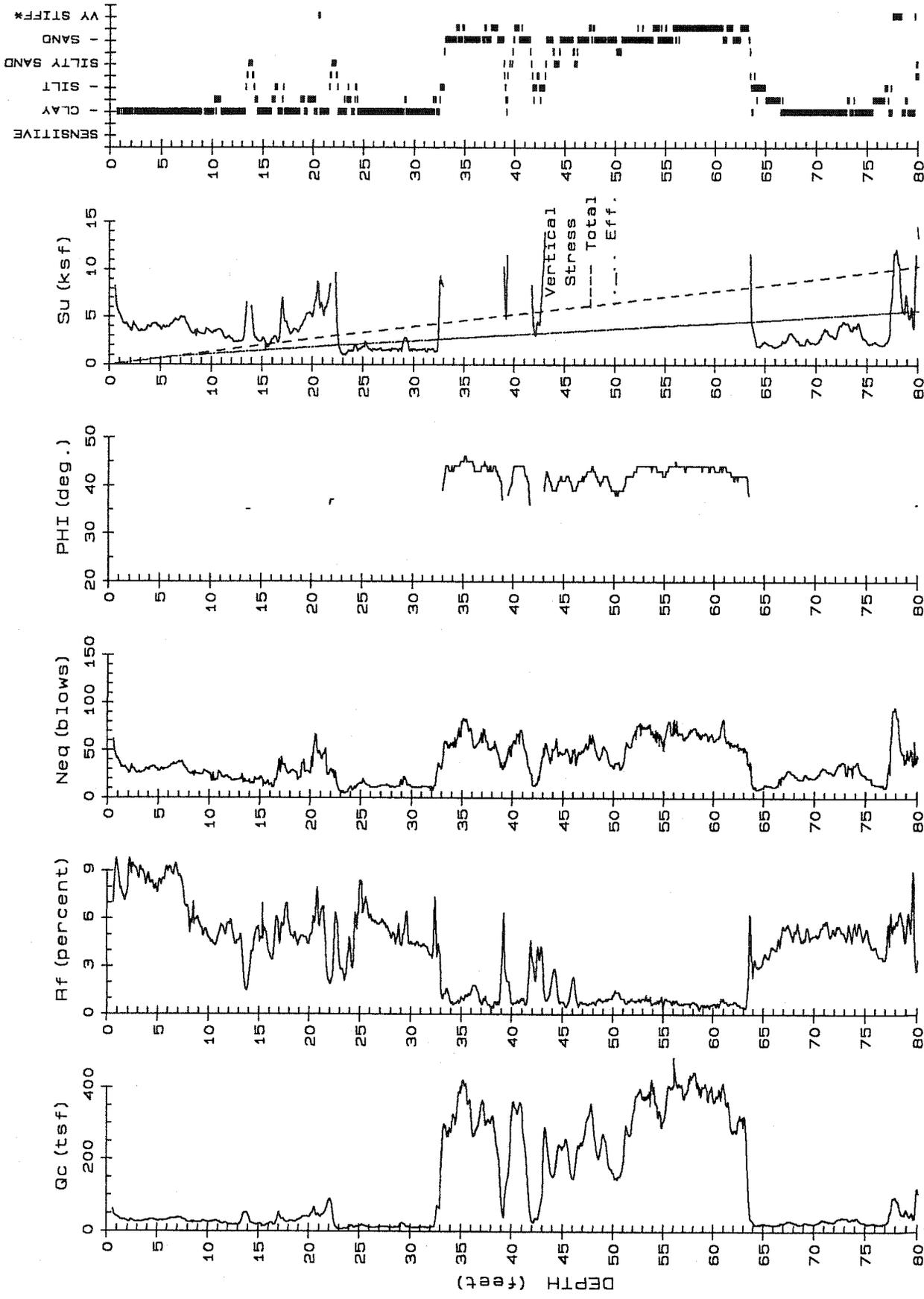
Rf = Tip/Sleeve ratio

Su = Undrained Soil Strength* (Nk=10 for Qc<9 tsf)

SPT = Equivalent Standard Penetration Test* (Nk=12 for Qc=9 to 12 tsf) (Nk=15 for Qc>12 tsf)

References: * Robertson and Campanella, 1988

** Olsen, 1989 *** Durgunoglu & Mitchell, 1975



DEPTH (feet)

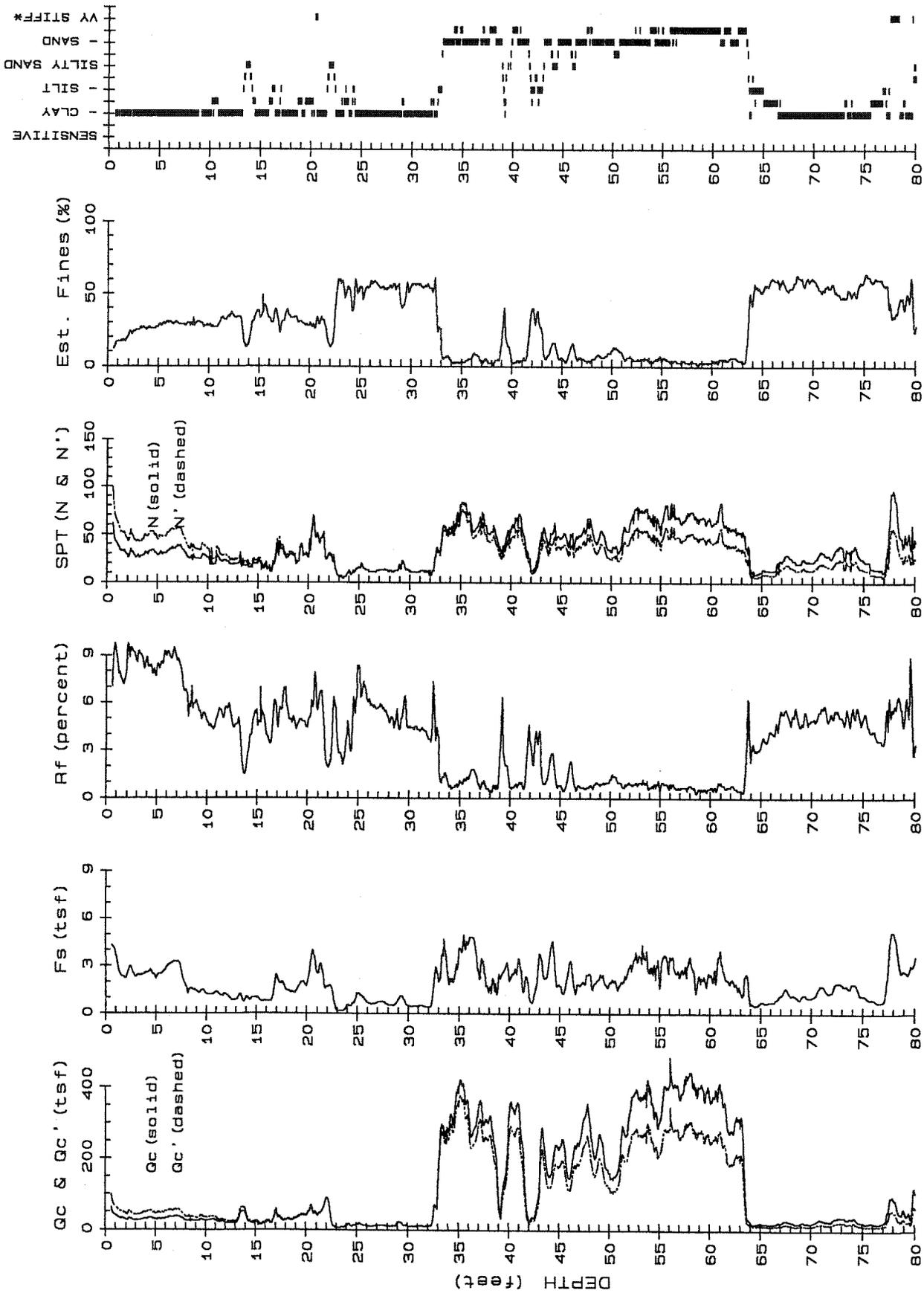
Terminated at 80.0 feet

Groundwater measured at 6.2 feet

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

CPT NO.: CPT-5
 DATE: 12-23-2005

John Sarmiento & Associates
 Cone Penetration Testing Service



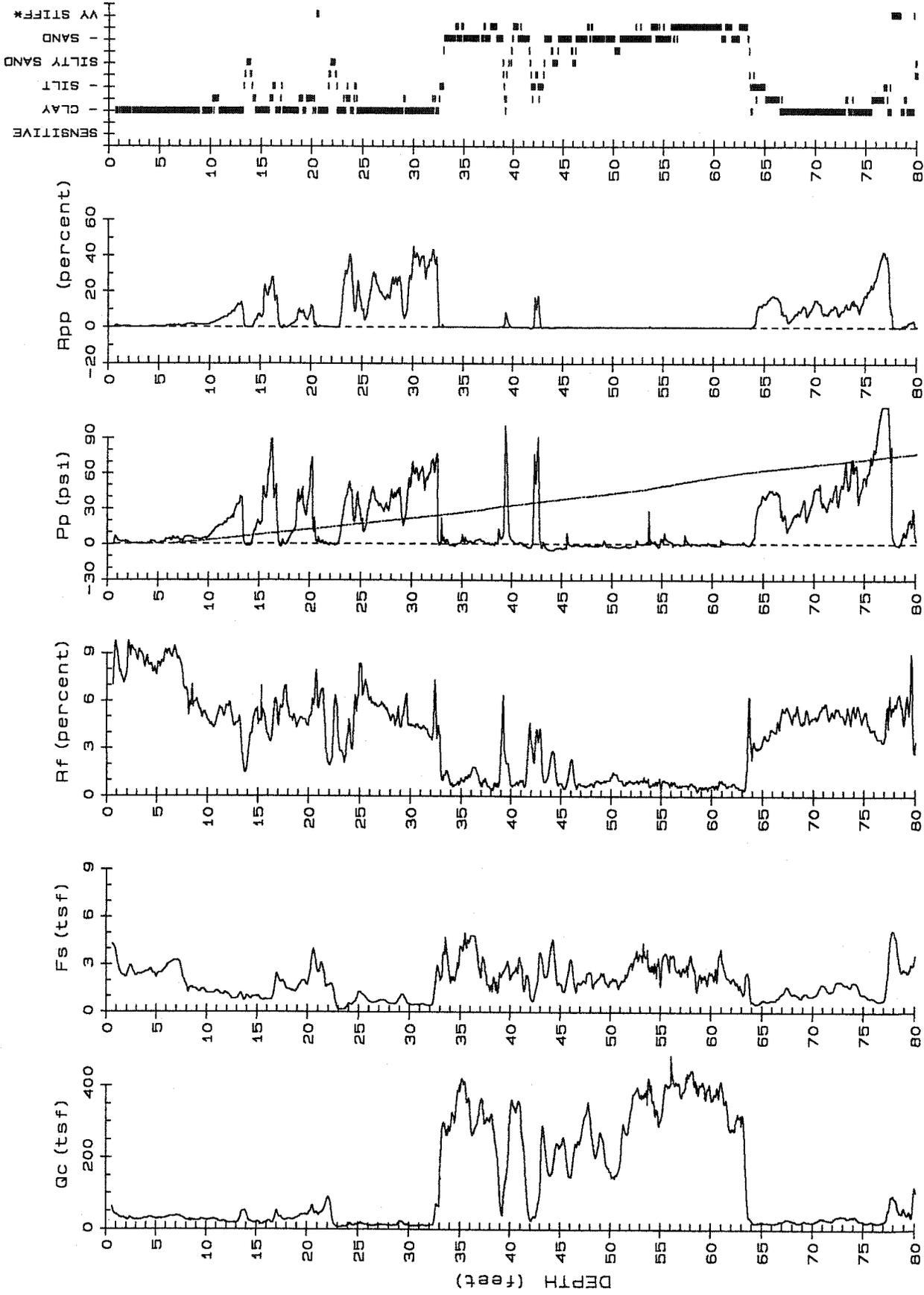
Groundwater measured at 6.2 feet

Terminated at 80.0 feet

CPT NO.: CPT-5
 DATE : 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (EGO-124)

John Sarmiento & Associates
 Cone Penetration Testing Service



Groundwater measured at 6.2 feet

Terminated at 80.0 feet

CPT NO.: CPT-5
 DATE : 12-23-2005

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01 (E60-124)

John Sarmiento & Associates
 Cone Penetration Testing Service

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-5 Page 1 of 3
 DATE : 12-23-2005
 Groundwater measured at 6.2 feet
 Terminated at 80.0 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
0.57	61.20	4.280	7.0	61	98	0.07	----	8.16	Very Stiff Fine Grained *	130-140
1.05	38.70	3.440	8.9	39	62	0.13	----	5.15	CLAY	"
1.50	31.70	2.380	7.5	32	51	0.19	----	4.21	"	"
2.06	26.30	2.410	9.2	26	42	0.27	----	3.49	"	"
2.55	29.80	2.780	9.3	30	48	0.33	----	3.95	"	"
3.04	27.00	2.320	8.6	27	43	0.40	----	3.57	"	"
3.53	27.20	2.410	8.9	27	44	0.47	----	3.60	"	"
4.02	29.20	2.560	8.8	29	47	0.53	----	3.86	"	"
4.50	32.50	2.630	8.1	33	52	0.60	----	4.29	"	"
5.07	27.50	2.320	8.4	28	44	0.68	----	3.62	"	"
5.58	29.50	2.500	8.5	30	47	0.74	----	3.88	"	"
6.07	32.00	2.920	9.1	32	51	0.81	----	4.21	"	"
6.56	35.20	3.150	8.9	35	55	0.87	----	4.64	"	"
7.04	37.70	3.230	8.6	38	57	0.94	----	4.96	"	"
7.52	33.40	2.530	7.6	33	50	1.01	----	4.39	"	"
8.00	26.00	1.690	6.5	26	38	1.07	----	3.40	"	"
8.55	27.90	1.550	5.6	28	39	1.14	----	3.64	"	"
9.58	28.20	1.480	5.2	28	39	1.28	----	3.67	"	"
10.07	25.30	1.190	4.7	25	34	1.35	----	3.28	"	"
10.57	27.60	1.220	4.4	18	24	1.42	----	3.59	Silty CLAY to CLAY	"
11.07	25.90	1.340	5.2	26	34	1.48	----	3.35	CLAY	"
11.56	22.10	1.140	5.2	22	29	1.55	----	2.84	"	"
12.08	20.70	1.150	5.6	21	26	1.62	----	2.65	"	"
12.58	18.30	0.850	4.6	18	23	1.68	----	2.33	"	120-130
13.09	19.70	0.930	4.7	20	24	1.75	----	2.51	"	130-140
13.58	50.30	0.960	1.9	17	20	1.82	35	----	Silty SAND to Sandy SILT	"
14.07	38.60	1.040	2.7	15	19	1.89	----	5.02	Sandy SILT to Clayey SILT	"
14.57	20.00	0.980	4.9	20	24	1.95	----	2.54	CLAY	"
15.07	21.50	0.960	4.5	22	25	2.02	----	2.73	"	"
15.55	14.40	0.760	5.3	14	17	2.08	----	1.78	"	120-130
16.04	20.70	0.790	3.8	14	16	2.14	----	2.62	Silty CLAY to CLAY	"
16.54	18.00	0.940	5.2	18	20	2.21	----	2.25	CLAY	130-140
17.03	53.50	2.330	4.4	27	30	2.27	----	6.98	Clayey SILT to Silty CLAY	"
17.52	31.80	1.990	6.3	32	35	2.34	----	4.08	CLAY	"
18.01	26.80	1.450	5.4	27	29	2.41	----	3.41	"	"
18.57	26.60	1.350	5.1	27	29	2.48	----	3.38	"	"
19.05	33.30	1.560	4.7	22	24	2.55	----	4.27	Silty CLAY to CLAY	"
19.54	41.30	1.980	4.8	28	29	2.61	----	5.33	"	"
20.02	38.50	1.850	4.8	26	27	2.68	----	4.95	"	"
20.50	66.20	3.780	5.7	66	69	2.74	----	8.64	Very Stiff Fine Grained *	"
21.05	41.70	2.510	6.0	42	43	2.82	----	5.37	CLAY	"
21.52	50.70	2.640	5.2	51	52	2.88	----	6.57	"	"
22.03	88.80	1.690	1.9	30	30	2.95	37	----	Silty SAND to Sandy SILT	"
22.57	19.60	1.230	6.3	20	20	3.02	----	2.41	CLAY	"
23.02	6.50	0.190	2.9	7	6	3.07	----	0.99	"	100-110
23.56	8.90	0.210	2.4	6	6	3.13	----	1.47	Silty CLAY to CLAY	"
24.03	12.10	0.540	4.5	12	12	3.18	----	1.40	CLAY	120-130
24.51	10.10	0.640	6.3	10	10	3.25	----	1.41	"	"
25.07	15.30	1.270	8.3	15	15	3.32	----	1.82	"	130-140
25.52	14.30	1.040	7.3	14	14	3.38	----	1.68	"	120-130
26.00	11.40	0.700	6.1	11	11	3.44	----	1.61	"	"
26.56	11.00	0.640	5.8	11	11	3.51	----	1.54	"	"
27.04	12.90	0.740	5.7	13	13	3.57	----	1.48	"	"
27.52	13.50	0.740	5.5	14	13	3.63	----	1.56	"	"
28.07	11.70	0.550	4.7	12	12	3.70	----	1.64	"	"
28.56	11.60	0.550	4.7	12	12	3.76	----	1.62	"	"
29.04	21.60	0.930	4.3	14	14	3.82	----	2.63	Silty CLAY to CLAY	130-140
29.52	14.70	0.930	6.3	15	15	3.88	----	1.70	CLAY	120-130
30.07	11.00	0.500	4.5	11	11	3.95	----	1.50	"	"
30.55	11.00	0.490	4.5	11	11	4.01	----	1.50	"	"
31.02	11.80	0.500	4.2	12	12	4.07	----	1.63	"	"
31.57	11.50	0.480	4.2	12	11	4.14	----	1.57	"	"
32.04	12.00	0.440	3.7	8	8	4.20	----	1.32	Silty CLAY to CLAY	"

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
32.52	43.60	2.010	4.6	29	28	4.26	----	5.53	"	130-140
33.06	192.20	2.120	1.1	38	36	4.33	41	----	SAND	120-130
33.50	292.30	4.690	1.6	58	54	4.39	44	----	"	130-140
34.01	273.50	1.830	0.7	55	50	4.45	43	----	"	110-120
34.50	300.80	2.120	0.7	60	55	4.50	44	----	"	"
35.01	382.00	4.140	1.1	76	69	4.57	45	----	"	120-130
35.53	400.60	4.410	1.1	80	72	4.63	45	----	"	"
36.06	297.40	4.800	1.6	59	52	4.70	44	----	"	130-140
37.01	354.60	2.180	0.6	59	51	4.81	44	----	Gravelly SAND to SAND	110-120
37.08	350.50	2.230	0.6	58	50	4.82	44	----	"	"
37.50	295.80	2.600	0.9	59	51	4.87	43	----	SAND	120-130
38.03	311.60	1.660	0.5	52	44	4.93	44	----	Gravelly SAND to SAND	110-120
38.50	242.80	1.530	0.6	49	41	4.99	42	----	SAND	"
38.57	238.50	1.640	0.7	48	40	5.00	42	----	"	"
39.04	59.80	2.200	3.7	30	25	5.06	----	7.64	Clayey SILT to Silty CLAY	130-140
40.05	338.00	2.230	0.7	56	46	5.18	44	----	Gravelly SAND to SAND	110-120
40.51	326.30	2.740	0.8	65	53	5.23	44	----	SAND	120-130
41.05	323.90	3.050	0.9	65	53	5.30	44	----	"	"
41.53	168.30	1.830	1.1	34	27	5.36	40	----	"	"
42.02	26.50	0.900	3.4	13	11	5.43	----	3.17	Clayey SILT to Silty CLAY	130-140
42.54	34.40	1.430	4.2	23	18	5.50	----	4.22	Silty CLAY to CLAY	"
43.02	106.50	3.770	3.5	43	34	5.56	----	13.83	Sandy SILT to Clayey SILT	"
43.57	229.10	2.250	1.0	46	36	5.63	41	----	SAND	120-130
44.02	150.60	3.770	2.5	50	40	5.69	39	----	Silty SAND to Sandy SILT	130-140
44.52	218.90	2.910	1.3	44	34	5.76	41	----	SAND	"
45.06	231.60	1.750	0.8	46	36	5.82	41	----	"	110-120
45.52	229.00	1.670	0.7	46	36	5.87	41	----	"	"
46.00	146.50	3.220	2.2	49	38	5.94	39	----	Silty SAND to Sandy SILT	130-140
46.55	237.60	1.270	0.5	48	37	6.00	41	----	SAND	110-120
47.02	244.90	1.770	0.7	49	38	6.06	42	----	"	"
47.52	315.90	1.860	0.6	53	40	6.11	43	----	Gravelly SAND to SAND	"
48.01	311.30	2.520	0.8	62	47	6.18	43	----	SAND	120-130
48.56	200.90	1.920	1.0	40	30	6.24	40	----	"	"
49.02	269.10	2.500	0.9	54	41	6.30	42	----	"	"
49.53	195.90	1.870	1.0	39	29	6.36	40	----	"	"
50.01	161.40	1.950	1.2	32	24	6.43	39	----	"	"
50.50	149.10	2.090	1.4	37	28	6.49	39	----	SAND to Silty SAND	130-140
51.06	195.80	1.880	1.0	39	29	6.56	40	----	SAND	120-130
51.53	271.80	2.410	0.9	54	40	6.62	42	----	"	"
52.01	325.90	3.030	0.9	65	48	6.68	43	----	"	"
52.56	385.80	3.670	1.0	77	56	6.75	44	----	"	"
53.02	366.20	3.590	1.0	73	53	6.81	44	----	"	"
53.55	369.20	3.530	1.0	74	53	6.87	44	----	"	"
54.02	381.80	2.620	0.7	64	46	6.93	44	----	Gravelly SAND to SAND	110-120
54.51	315.00	2.700	0.9	63	45	6.99	43	----	SAND	120-130
55.00	300.70	1.640	0.5	50	36	7.04	42	----	Gravelly SAND to SAND	110-120
55.53	401.70	3.700	0.9	80	57	7.11	44	----	SAND	120-130
56.01	400.30	3.600	0.9	80	56	7.17	44	----	"	"
56.08	407.50	3.500	0.9	68	48	7.18	44	----	Gravelly SAND to SAND	"
56.54	407.30	2.660	0.7	68	48	7.23	44	----	"	110-120
57.00	373.10	2.350	0.6	62	44	7.28	44	----	"	"
57.08	365.40	2.470	0.7	61	43	7.29	43	----	"	"
57.57	422.50	2.970	0.7	70	49	7.35	44	----	"	"
58.02	437.30	3.590	0.8	73	51	7.41	44	----	"	120-130
58.54	399.30	1.460	0.4	67	46	7.46	44	----	"	100-110
59.01	397.50	2.160	0.5	66	46	7.52	44	----	"	110-120
59.53	363.10	1.930	0.5	61	42	7.58	43	----	"	"
60.04	356.20	2.480	0.7	59	41	7.63	43	----	"	"
60.53	381.40	2.050	0.5	64	44	7.69	44	----	"	"
61.05	402.60	3.500	0.9	81	55	7.76	44	----	SAND	120-130
61.53	354.20	2.210	0.6	59	40	7.81	43	----	Gravelly SAND to SAND	110-120
62.06	278.30	2.090	0.8	56	38	7.87	42	----	SAND	"

PROJECT: BAYPOINTE PARKWAY SITE
 LOCATION: San Jose CA
 PROJ. NO.: 7123.3.001.01(EGO-124)

CPT NO.: CPT-5
 DATE : 12-23-2005
 Groundwater measured at 6.2 feet
 Terminated at 80.0 feet

DEPTH (feet)	Qc (tsf)	Fs (tsf)	Rf (%)	SPT (N)	SPT (N')	TotVtStr (ksf)	PHI (deg.)	SU (ksf)	SOIL BEHAVIOR TYPE	DENSITY RANGE (pcf)
62.50	302.20	1.880	0.6	50	34	7.92	42	----	Gravelly SAND to SAND	"
63.00	287.40	1.390	0.5	48	32	7.97	42	----	"	100-110
63.53	90.60	2.450	2.7	36	24	8.05	----	11.54	Sandy SILT to Clayey SILT	130-140
64.03	23.50	0.670	2.9	12	8	8.11	----	2.59	Clayey SILT to Silty CLAY	120-130
64.54	19.40	0.560	2.9	10	6	8.17	----	2.04	"	"
65.07	21.60	0.770	3.6	14	10	8.24	----	2.33	Silty CLAY to CLAY	"
65.54	19.90	0.700	3.5	13	9	8.30	----	2.10	"	"
66.02	18.30	0.750	4.1	12	8	8.36	----	1.88	"	"
66.58	20.70	0.920	4.4	21	14	8.43	----	2.20	CLAY	130-140
67.06	23.20	1.230	5.3	23	15	8.50	----	2.53	"	"
67.54	29.10	1.570	5.4	29	19	8.56	----	3.31	"	"
68.02	24.20	1.150	4.8	24	16	8.63	----	2.65	"	"
68.58	20.40	1.020	5.0	20	13	8.70	----	2.14	"	"
69.05	23.50	1.100	4.7	24	15	8.77	----	2.55	"	"
69.52	21.10	1.050	5.0	21	13	8.83	----	2.22	"	"
70.06	21.30	1.050	4.9	21	13	8.90	----	2.25	"	"
70.53	26.70	1.330	5.0	27	17	8.97	----	2.96	"	"
71.04	31.40	1.750	5.6	31	20	9.03	----	3.58	"	"
71.51	27.70	1.370	4.9	28	17	9.10	----	3.09	"	"
72.05	28.50	1.430	5.0	29	18	9.17	----	3.19	"	"
72.51	35.10	1.930	5.5	35	22	9.23	----	4.06	"	"
73.04	37.30	1.780	4.8	25	15	9.31	----	4.35	Silty CLAY to CLAY	"
73.57	31.50	1.620	5.1	32	19	9.38	----	3.57	CLAY	"
74.02	33.50	1.900	5.7	34	21	9.44	----	3.84	"	"
74.56	26.90	1.460	5.4	27	16	9.51	----	2.95	"	"
75.02	22.60	1.140	5.0	23	14	9.57	----	2.38	"	"
75.55	21.40	0.950	4.4	21	13	9.64	----	2.21	"	"
76.07	21.00	0.890	4.2	14	8	9.71	----	2.15	Silty CLAY to CLAY	"
76.52	20.10	0.730	3.6	13	8	9.77	----	2.03	"	120-130
77.05	23.40	0.820	3.5	12	7	9.84	----	2.46	Clayey SILT to Silty CLAY	130-140
77.54	59.80	3.750	6.3	60	36	9.91	----	7.31	Very Stiff Fine Grained *	"
78.05	87.70	5.060	5.8	88	52	9.98	----	11.03	"	>140
78.56	48.10	2.970	6.2	48	28	10.05	----	5.74	CLAY	130-140
79.06	50.20	2.630	5.2	50	30	10.12	----	6.02	"	"
79.54	36.80	2.890	7.9	37	22	10.18	----	4.23	"	"
80.07	104.70	3.590	3.4	42	24	10.25	----	13.28	Sandy SILT to Clayey SILT	"

DEPTH = Sampling interval (2 inches)

Qc = Tip bearing resistance

Fs = Sleeve friction resistance

Rf = Tip/Sleeve ratio

SPT = Equivalent Standard Penetration Test*

References: * Robertson and Campanella, 1988

TotStr = Total Stress using est. density**

Phi = Soil friction angle*

Su = Undrained Soil Strength* (Nk=10 for Qc<9 tsf)

(Nk=12 for Qc=9 to 12 tsf) (Nk=15 for Qc>12 tsf)

** Olsen, 1989 *** Durgunoglu & Mitchell, 1975

APPENDIX B

ENGEO INCORPORATED

Liquefaction Analysis Spreadsheets

7123.3.001.01
January 13, 2006



Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{cn}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	Δq_{cn}	$(q_{cn})_{2s}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	0.57	10.8	19.3	1.56	135	77	77	37.0	500.4	8.10	2.3	21.2	0.43	28.2	65.1	0.350	0.106	0.127	0.36	Above W.T.
CPT-1	0.66	10.8	21.4	1.56	135	89	89	41.0	479.2	7.30	2.2	20.0	0.40	27.2	68.2	0.350	0.110	0.131	0.38	Above W.T.
CPT-1	0.74	10.8	19.2	1.53	135	100	100	36.8	383.2	7.99	2.3	22.5	0.47	32.4	69.1	0.350	0.111	0.133	0.38	Above W.T.
CPT-1	0.84	10.8	16.1	1.43	135	113	113	30.8	282.8	8.91	2.4	26.3	0.57	40.6	71.5	0.350	0.114	0.137	0.39	Above W.T.
CPT-1	0.92	10.8	14.9	1.29	135	124	124	28.5	238.8	8.69	2.4	27.2	0.59	41.6	70.2	0.350	0.112	0.135	0.38	Above W.T.
CPT-1	1.01	10.8	13.7	1.18	135	136	136	26.2	199.9	8.66	2.5	28.7	0.63	45.0	71.3	0.350	0.114	0.136	0.39	Above W.T.
CPT-1	1.1	10.8	13.1	1.11	125	149	149	25.1	175.4	8.52	2.5	29.6	0.66	48.0	73.1	0.350	0.116	0.140	0.40	Above W.T.
CPT-1	1.19	10.8	12.3	1.11	125	160	160	23.6	152.9	9.08	2.5	32.0	0.72	60.9	84.5	0.350	0.136	0.163	0.47	Above W.T.
CPT-1	1.27	10.8	11.7	1.12	125	170	170	22.4	136.8	9.64	2.6	34.2	0.78	79.5	101.9	0.350	0.178	0.214	0.61	Above W.T.
CPT-1	1.36	10.8	11	1.1	125	181	181	21.1	120.5	10.08	2.6	36.4	0.80	84.3	105.3	0.350	0.189	0.226	0.65	Above W.T.
CPT-1	1.45	10.8	10.7	1.09	125	192	192	20.5	110.3	10.28	2.6	37.8	0.80	82.0	102.5	0.350	0.180	0.216	0.62	Above W.T.
CPT-1	1.54	10.8	10.8	1.1	125	204	204	20.7	105.1	10.28	2.7	38.4	0.80	82.7	103.4	0.350	0.183	0.219	0.63	Above W.T.
CPT-1	1.62	10.8	10.8	1.11	125	214	214	20.7	100.1	10.38	2.7	39.2	0.80	82.7	103.4	0.350	0.183	0.219	0.63	Above W.T.
CPT-1	1.71	10.8	10.5	1.11	125	225	225	20.1	92.4	10.69	2.7	40.8	0.80	80.4	100.5	0.350	0.175	0.209	0.60	Above W.T.
CPT-1	1.79	10.8	10.8	1.11	125	235	235	20.7	91.0	10.39	2.7	40.4	0.80	82.7	103.4	0.350	0.183	0.219	0.63	Above W.T.
CPT-1	1.88	10.8	11.1	1.1	125	246	246	21.3	89.2	10.02	2.7	40.0	0.80	85.0	106.3	0.350	0.192	0.230	0.66	Above W.T.
CPT-1	1.97	10.8	11.1	1.01	125	257	257	21.3	85.3	9.21	2.7	39.0	0.80	85.0	106.3	0.350	0.192	0.230	0.66	Above W.T.
CPT-1	2.06	10.8	11.5	0.91	125	269	269	22.0	84.6	8.01	2.6	36.6	0.80	88.1	110.1	0.350	0.204	0.245	0.70	Above W.T.
CPT-1	2.14	10.8	11.5	1	125	279	279	22.0	81.6	8.80	2.7	38.7	0.80	88.1	110.1	0.350	0.204	0.245	0.70	Above W.T.
CPT-1	2.23	10.8	11.8	1.04	125	290	290	22.6	80.4	8.92	2.7	39.2	0.80	90.4	113.0	0.350	0.214	0.257	0.73	Above W.T.
CPT-1	2.31	10.8	10.7	1.06	125	300	300	20.5	70.4	10.05	2.8	43.2	0.80	82.0	102.5	0.350	0.180	0.216	0.62	Above W.T.
CPT-1	2.41	10.8	13.5	1.08	125	312	312	25.9	85.4	8.09	2.6	36.6	0.80	103.4	129.3	0.350	0.281	0.337	0.96	Above W.T.
CPT-1	2.5	10.8	12.8	1.12	125	324	324	24.5	78.1	8.86	2.7	39.4	0.80	98.1	122.6	0.350	0.251	0.302	0.86	Above W.T.
CPT-1	2.59	10.8	12.4	1.11	125	335	335	23.7	73.1	9.07	2.7	40.8	0.80	95.0	118.7	0.350	0.236	0.283	0.81	Above W.T.
CPT-1	2.67	10.8	12.7	1.11	125	345	345	24.3	72.6	8.86	2.7	40.4	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-1	2.76	10.8	12.8	1.11	125	356	356	24.5	70.9	8.79	2.7	40.6	0.80	98.1	122.6	0.350	0.251	0.302	0.86	Above W.T.
CPT-1	2.84	10.8	13.1	1.14	125	366	366	25.1	70.6	8.83	2.7	40.7	0.80	100.4	125.4	0.350	0.264	0.316	0.90	Above W.T.
CPT-1	2.93	10.8	12.5	1.17	125	377	377	23.9	65.2	9.50	2.8	43.3	0.80	95.8	119.7	0.350	0.240	0.287	0.82	Above W.T.
CPT-1	3.02	10.8	12.6	1.18	125	389	389	24.1	63.8	9.51	2.8	43.6	0.80	96.5	120.7	0.350	0.243	0.292	0.83	Above W.T.
CPT-1	3.1	10.8	13	1.17	125	399	399	24.9	64.2	9.14	2.7	42.7	0.80	99.6	124.5	0.350	0.259	0.311	0.89	Above W.T.
CPT-1	3.19	10.8	12.7	1.17	125	410	410	24.3	61.0	9.36	2.8	44.0	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-1	3.28	10.8	12.7	1.15	125	421	421	24.3	59.3	9.21	2.8	44.1	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-1	3.37	10.8	12.7	1.14	125	432	432	24.3	57.7	9.13	2.8	44.3	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-1	3.45	10.8	12.7	1.14	125	442	442	24.3	56.4	9.14	2.8	44.7	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-1	3.54	10.8	12.3	1.14	125	454	454	23.6	53.2	9.44	2.8	46.2	0.80	94.2	117.8	0.350	0.232	0.278	0.79	Above W.T.
CPT-1	3.63	10.8	12.3	1.14	125	465	465	23.6	51.9	9.45	2.8	46.6	0.80	94.2	117.8	0.350	0.232	0.278	0.79	Above W.T.
CPT-1	3.71	10.8	12.1	1.14	125	475	475	23.2	50.0	9.61	2.8	47.5	0.80	92.7	115.9	0.350	0.225	0.270	0.77	Above W.T.
CPT-1	3.8	10.8	11.9	1.16	125	486	486	22.8	48.0	9.95	2.8	48.9	0.80	91.2	114.0	0.350	0.218	0.261	0.75	Above W.T.
CPT-1	3.89	10.8	12.1	1.19	125	497	497	23.2	47.6	10.04	2.9	49.2	0.80	92.7	115.9	0.350	0.225	0.270	0.77	Above W.T.
CPT-1	3.98	10.8	12.1	1.24	125	509	509	23.2	46.6	10.47	2.9	50.4	0.80	92.7	115.9	0.350	0.225	0.270	0.77	Above W.T.
CPT-1	4.07	10.8	12.4	1.28	135	520	520	23.7	46.7	10.54	2.9	50.5	0.80	95.0	118.7	0.350	0.236	0.283	0.81	Above W.T.
CPT-1	4.16	10.8	12.5	1.29	135	532	532	23.7	46.0	10.54	2.9	50.8	0.80	94.9	118.6	0.350	0.235	0.282	0.81	Above W.T.
CPT-1	4.24	10.8	12.8	1.28	135	543	543	24.0	46.2	10.22	2.9	50.1	0.80	96.2	120.2	0.350	0.242	0.290	0.83	Above W.T.
CPT-1	4.33	10.8	12.8	1.24	135	555	555	23.8	45.1	9.90	2.9	49.8	0.80	95.1	118.9	0.350	0.236	0.283	0.81	Above W.T.
CPT-1	4.41	10.8	12.3	1.19	125	566	566	22.6	42.5	9.90	2.9	50.8	0.80	90.5	113.1	0.350	0.215	0.258	0.74	Above W.T.
CPT-1	4.5	10.8	12.4	1.16	125	577	577	22.6	42.0	9.58	2.9	50.4	0.80	90.4	112.9	0.350	0.214	0.257	0.73	Above W.T.
CPT-1	4.59	10.8	12.2	1.15	125	588	588	22.0	40.5	9.66	2.9	51.2	0.80	88.0	110.1	0.350	0.204	0.245	0.70	Above W.T.
CPT-1	4.67	10.8	12.6	1.16	125	598	598	22.5	41.1	9.43	2.9	50.4	0.80	90.2	112.7	0.350	0.213	0.256	0.73	Above W.T.
CPT-1	4.76	10.8	12.3	1.19	125	609	609	21.8	39.4	9.92	2.9	52.2	0.80	87.2	109.0	0.350	0.200	0.241	0.69	Above W.T.
CPT-1	4.85	10.8	12.6	1.22	125	621	621	22.1	39.6	9.93	2.9	52.1	0.80	88.5	110.6	0.350	0.206	0.247	0.71	Above W.T.
CPT-1	4.93	10.8	12.3	1.25	135	631	631	21.4	38.0	10.43	2.9	53.9	0.80	85.7	107.2	0.350	0.194	0.233	0.67	Above W.T.
CPT-1	5.02	10.8	11.9	1.23	125	643	643	20.5	36.0	10.62	3.0	55.2	0.80	82.1	102.7	0.350	0.181	0.217	0.62	Above W.T.
CPT-1	5.11	10.8	11.7	1.19	125	654	654	20.0	34.8	10.46	3.0	55.6	0.80	80.1	100.1	0.350	0.173	0.208	0.59	Above W.T.
CPT-1	5.19	10.8	12	1.16	125	664	664	20.4	35.1	9.94	2.9	54.3	0.80	81.5	101.9	0.350	0.178	0.214	0.61	Above W.T.
CPT-1	5.28	10.8	12.6	0.98	125	675	675	21.2	36.3	7.99	2.9	49.3	0.80	84.9	106.1	0.350	0.191	0.229	0.65	Above W.T.
CPT-1	5.37	10.8	12.9	1.14	125	687	687	21.5	36.6	9.08	2.9	51.7	0.80	86.2	107.7	0.350	0.196	0.235	0.67	Above W.T.
CPT-1	5.45	10.8	13.1	1.16	125	697	697	21.7	36.6	9.10	2.9	51.7	0.80	86.9	108.6	0.350	0.199	0.239	0.68	Above W.T.
CPT-1	5.54	10.8	13.2	1.16	125	708	708	21.7	36.3	9.03	2.9	51.7	0.80	86.8	108.5	0.350	0.199	0.239	0.68	Above W.T.
CPT-1	5.58	10.8	12.3	1.16	125	713	713	20.2	33.5	9.71	2.9	54.7	0.80	80.6	100.8	0.350	0.175	0.210	0.60	Above W.T.
CPT-1	5.64	10.8	14.1	1.17	135	720	720	23.0	38.1	8.52	2.9	49.7	0.80	91.9	114.9	0.350	0.221	0.265	0.76	Above W.T.
CPT-1	5.73	10.8	14.2	1.2	135	732	732	23.0	37.8	8.67	2.9	50.2	0.80	91.8	114.8	0.350	0.221	0.265	0.76	Above W.T.
CPT-1	5.82	10.8	14.2	1.23	135	745	745	22.8	37.1	8.90	2.9	51.0	0.80	91.1	113.8	0.350	0.217	0.261	0.74	Above W.T.
CPT-1</																				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{c18}	Corr. Tip Q	Friction Ratio F	F.C. (%)	K _{cr}	Δq_{cr}	(q_{cr}) _{cr}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-1	6.95	10.8	17.5	1.71	135	897	897	25.6	38.0	10.03	2.9	53.0	0.80	102.3	127.8	0.350	0.274	0.329	0.94	Above W.T.
CPT-1	7.03	10.8	18.5	1.8	135	908	908	26.9	39.7	9.97	2.9	52.1	0.80	107.5	134.3	0.350	0.305	0.366	1.05	Above W.T.
CPT-1	7.12	10.8	20.4	1.87	135	920	920	29.4	43.3	9.38	2.9	49.4	0.80	117.7	147.1	0.350	0.376	0.451	1.29	Above W.T.
CPT-1	7.21	10.8	21	1.92	135	932	932	30.1	44.0	9.35	2.9	49.1	0.80	120.4	150.5	0.350	0.397	0.476	1.36	Above W.T.
CPT-1	7.29	10.8	21.3	1.97	135	943	943	30.3	44.2	9.46	2.9	49.3	0.80	121.4	151.7	0.350	0.405	0.486	1.39	Above W.T.
CPT-1	7.38	10.8	21.4	1.99	135	955	955	30.3	43.8	9.51	2.9	49.5	0.80	121.2	151.5	0.350	0.403	0.484	1.38	Above W.T.
CPT-1	7.47	10.8	21.2	2.02	135	967	967	29.8	42.8	9.75	2.9	50.4	0.80	119.3	149.1	0.350	0.388	0.466	1.33	Above W.T.
CPT-1	7.55	10.8	22.6	2.02	135	978	978	31.6	45.2	9.14	2.8	48.2	0.80	126.5	158.1	0.350	0.447	0.537	1.53	Above W.T.
CPT-1	7.64	10.8	22.2	1.99	135	990	990	30.9	43.8	9.17	2.8	48.8	0.80	123.5	154.3	0.350	0.422	0.506	1.44	Above W.T.
CPT-1	7.72	10.8	23	1.95	135	1001	1001	31.8	44.9	8.67	2.8	47.2	0.80	127.2	159.0	0.350	0.454	0.545	1.56	Above W.T.
CPT-1	7.81	10.8	23.3	1.92	135	1013	1013	32.0	45.0	8.42	2.8	46.7	0.80	128.1	160.1	0.350	0.462	0.554	1.58	Above W.T.
CPT-1	7.9	10.8	23.5	1.86	135	1025	1025	32.1	44.8	8.09	2.8	45.9	0.80	128.4	160.5	0.350	0.465	0.558	1.59	Above W.T.
CPT-1	7.98	10.8	23.1	1.84	135	1036	1036	31.4	43.6	8.15	2.8	46.5	0.80	125.6	157.0	0.350	0.440	0.528	1.51	Above W.T.
CPT-1	8.07	10.8	23.2	1.87	135	1048	1048	31.4	43.2	8.25	2.8	46.9	0.80	125.4	156.8	0.350	0.438	0.526	1.50	Above W.T.
CPT-1	8.15	10.8	22.5	1.9	135	1059	1059	30.2	41.5	8.65	2.8	48.5	0.80	121.0	151.2	0.350	0.402	0.482	1.38	Above W.T.
CPT-1	8.24	10.8	22.6	1.96	135	1071	1071	30.2	41.2	8.88	2.9	49.2	0.80	120.8	151.1	0.350	0.401	0.481	1.37	Above W.T.
CPT-1	8.33	10.8	23.8	2.01	135	1083	1083	31.6	42.9	8.64	2.8	47.9	0.80	126.5	158.2	0.350	0.448	0.538	1.53	Above W.T.
CPT-1	8.41	10.8	24.2	2.03	135	1094	1094	32.0	43.2	8.58	2.8	47.7	0.80	128.0	160.0	0.350	0.461	0.554	1.58	Above W.T.
CPT-1	8.5	10.8	24.1	2.02	135	1106	1106	31.7	42.5	8.58	2.8	47.9	0.80	126.8	158.5	0.350	0.450	0.540	1.54	Above W.T.
CPT-1	8.59	10.8	24.3	2.01	135	1119	1119	31.8	42.4	8.47	2.8	47.7	0.80	127.2	159.0	0.350	0.453	0.544	1.55	Above W.T.
CPT-1	8.67	10.8	23.7	2.01	135	1129	1129	30.9	41.0	8.69	2.8	48.8	0.80	123.4	154.3	0.350	0.422	0.506	1.44	Above W.T.
CPT-1	8.75	10.8	23.8	1.98	135	1140	1140	30.8	40.7	8.52	2.8	48.5	0.80	123.4	154.2	0.350	0.421	0.505	1.44	Above W.T.
CPT-1	8.84	10.8	23.7	1.92	135	1152	1152	30.5	40.1	8.30	2.8	48.3	0.80	122.2	152.7	0.350	0.411	0.494	1.41	Above W.T.
CPT-1	8.88	10.8	23.9	1.88	135	1158	1158	30.7	40.3	8.06	2.8	47.7	0.80	122.9	153.7	0.350	0.417	0.501	1.43	Above W.T.
CPT-1	8.97	10.8	23.4	1.84	135	1170	1170	29.9	39.0	8.06	2.8	48.2	0.80	119.7	149.7	0.350	0.392	0.470	1.34	Above W.T.
CPT-1	9.05	10.8	23.3	1.81	135	1181	1181	29.7	38.5	7.97	2.8	48.2	0.80	118.7	148.3	0.350	0.384	0.460	1.31	Above W.T.
CPT-1	9.14	10.8	22.6	1.8	135	1193	1193	28.6	36.9	8.18	2.9	49.4	0.80	114.5	143.2	0.350	0.353	0.423	1.21	Above W.T.
CPT-1	9.22	10.8	23	1.8	135	1204	1204	29.0	37.2	8.04	2.9	48.9	0.80	116.0	145.0	0.350	0.364	0.436	1.25	Above W.T.
CPT-1	9.31	10.8	22.3	1.79	135	1216	1216	28.0	35.7	8.25	2.9	50.2	0.80	111.9	139.9	0.350	0.335	0.402	1.15	Above W.T.
CPT-1	9.39	10.8	22	1.78	135	1227	1227	27.5	34.9	8.32	2.9	50.8	0.80	109.9	137.4	0.350	0.321	0.386	1.10	Above W.T.
CPT-1	9.47	10.8	21.5	1.75	135	1237	1237	26.7	33.7	8.38	2.9	51.5	0.80	107.0	133.7	0.350	0.302	0.363	1.04	Above W.T.
CPT-1	9.56	10.8	21	1.73	135	1250	1250	26.0	32.6	8.49	2.9	52.4	0.80	104.0	130.0	0.350	0.284	0.341	0.97	Above W.T.
CPT-1	9.65	10.8	20.6	1.69	135	1262	1262	25.4	31.6	8.46	2.9	52.9	0.80	101.5	126.9	0.350	0.270	0.324	0.92	Above W.T.
CPT-1	9.73	10.8	20.3	1.65	135	1272	1272	24.9	30.9	8.39	2.9	53.2	0.80	99.6	124.5	0.350	0.259	0.311	0.89	Above W.T.
CPT-1	9.82	10.8	20.2	1.62	135	1285	1285	24.7	30.4	8.28	2.9	53.2	0.80	98.6	123.3	0.350	0.254	0.305	0.87	Above W.T.
CPT-1	9.91	10.8	20	1.6	135	1297	1297	24.3	29.8	8.27	2.9	53.5	0.80	97.2	121.5	0.350	0.247	0.296	0.85	Above W.T.
CPT-1	9.99	10.8	19.5	1.58	135	1308	1308	23.6	28.8	8.38	2.9	54.4	0.80	94.4	118.0	0.350	0.233	0.279	0.80	Above W.T.
CPT-1	10.08	10.8	19.5	1.57	135	1320	1320	23.5	28.5	8.33	2.9	54.5	0.80	93.9	117.4	0.343	0.231	0.277	0.81	Above W.T.
CPT-1	10.16	10.8	19.3	1.53	135	1331	1331	23.2	28.0	8.21	2.9	54.6	0.80	92.6	115.8	0.343	0.224	0.269	0.78	Above W.T.
CPT-1	10.25	10.8	18.7	1.52	135	1343	1343	22.3	26.8	8.43	3.0	55.9	0.80	89.3	111.6	0.343	0.209	0.251	0.73	Above W.T.
CPT-1	10.33	10.8	19.4	1.51	135	1353	1353	23.1	27.7	8.06	2.9	54.5	0.80	92.3	115.4	0.343	0.223	0.267	0.78	Above W.T.
CPT-1	10.42	10.8	18.3	1.5	135	1366	1366	21.7	25.8	8.51	3.0	57.9	0.80	86.7	108.3	0.343	0.198	0.238	0.69	Above W.T.
CPT-1	10.5	10.8	17.9	1.48	135	1376	1376	21.1	25.0	8.60	3.0	56.8	0.80	84.4	105.6	0.343	0.189	0.227	0.66	Above W.T.
CPT-1	10.59	10.8	17.6	1.48	135	1389	1389	20.7	24.3	8.75	3.0	58.7	0.80	82.7	103.3	0.343	0.183	0.219	0.64	Above W.T.
CPT-1	10.67	10.8	17.6	1.48	135	1399	1399	20.6	24.1	8.76	3.0	58.8	0.80	82.3	102.9	0.343	0.181	0.218	0.63	Above W.T.
CPT-1	10.76	10.8	17.5	1.47	135	1412	1412	20.4	23.8	8.75	3.0	59.1	0.80	81.5	101.9	0.343	0.178	0.214	0.62	Above W.T.
CPT-1	10.84	10.8	17.9	1.46	135	1422	1417	20.8	24.2	8.49	3.0	58.1	0.80	83.2	104.0	0.345	0.185	0.222	0.64	NonLiqble.
CPT-1	10.93	10.8	17.4	1.47	135	1434	1424	20.2	23.4	8.81	3.0	59.6	0.80	80.7	100.9	0.346	0.175	0.211	0.61	NonLiqble.
CPT-1	11.01	10.8	18.1	1.47	135	1445	1430	20.9	24.3	8.46	3.0	58.0	0.80	83.8	104.7	0.347	0.187	0.224	0.65	NonLiqble.
CPT-1	11.1	10.8	17.9	1.43	135	1457	1436	20.7	23.9	8.33	3.0	58.0	0.80	82.7	103.3	0.348	0.183	0.219	0.63	NonLiqble.
CPT-1	11.18	10.8	17.4	1.39	135	1468	1442	20.0	23.1	8.34	3.0	58.7	0.80	80.2	100.2	0.350	0.174	0.208	0.60	NonLiqble.
CPT-1	11.26	10.8	16.2	1.34	135	1479	1448	18.6	21.3	8.67	3.0	61.2	0.80	74.5	93.1	0.351	0.155	0.186	0.53	NonLiqble.
CPT-1	11.35	10.8	16.2	1.29	135	1491	1454	18.6	21.2	8.35	3.0	60.5	0.80	74.3	92.9	0.352	0.155	0.186	0.53	NonLiqble.
CPT-1	11.43	10.8	16.6	1.26	135	1502	1460	19.0	21.7	7.95	3.0	59.0	0.80	76.0	95.0	0.353	0.160	0.192	0.54	NonLiqble.
CPT-1	11.52	10.8	17.2	1.26	135	1514	1467	19.7	22.4	7.66	3.0	57.6	0.80	78.6	98.3	0.354	0.168	0.202	0.57	NonLiqble.
CPT-1	11.61	10.8	16.7	1.27	135	1526	1473	19.0	21.6	7.97	3.0	59.1	0.80	76.1	95.2	0.356	0.160	0.192	0.54	NonLiqble.
CPT-1	11.69	10.8	16.4	1.29	135	1537	1479	18.7	21.1	8.25	3.0	60.4	0.80	74.6	93.3	0.357	0.156	0.187	0.52	NonLiqble.
CPT-1	11.77	10.8	16.4	1.29	135	1548	1485	18.6	21.0	8.26	3.0	60.5	0.80	74.5	93.1	0.358	0.155	0.186	0.52	NonLiqble.
CPT-1	11.86	10.8	16.5	1.3	135	1560	1491	18.7	21.1	8.27	3.0	60.5	0.80	74.8	93.5	0.359	0.156	0.187	0.52	NonLiqble.
CPT-1	11.95	10.8	16.7	1.33	135	1572	1498	18.9	21.2	8.36	3.0	60.5	0.80	75.5	94.4	0.360	0.158	0.190	0.53	NonLiqble.
CPT-1	12.03	10.8	17.2	1.32	135	1583	1504	19.4	21.8	8.04	3.0	59.2	0.80	77.6	97.0	0.361	0.165	0.198	0.55	NonLiqble.
CPT-1	12.11	10.8	17.5	1.33	1															

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	Δq_{tip}	$(q_{tip})_0$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	13.4	10.8	15	1.13	135	1768	1603	16.4	17.6	8.01	3.1	63.7	0.80	65.6	82.0	0.379	0.131	0.157	0.42	NonLiqfble.
CPT-1	13.49	10.8	14.1	1.08	125	1780	1610	15.4	16.4	8.18	3.1	65.7	0.80	61.5	76.9	0.380	0.122	0.147	0.39	NonLiqfble.
CPT-1	13.57	10.8	14.3	1.02	125	1790	1615	15.6	16.6	7.61	3.1	63.9	0.80	62.3	77.9	0.381	0.124	0.149	0.39	NonLiqfble.
CPT-1	13.66	10.8	13.8	0.97	125	1801	1620	15.0	15.9	7.52	3.1	64.6	0.80	60.0	75.0	0.382	0.119	0.143	0.37	NonLiqfble.
CPT-1	13.74	10.8	13.2	0.94	125	1811	1625	14.3	15.1	7.65	3.1	66.2	0.80	57.3	71.6	0.383	0.114	0.137	0.36	NonLiqfble.
CPT-1	13.82	10.8	12.6	0.91	125	1821	1630	13.7	14.3	7.79	3.1	67.8	0.80	54.6	68.3	0.384	0.110	0.132	0.34	NonLiqfble.
CPT-1	13.91	10.8	11.8	0.89	125	1833	1636	12.8	13.3	8.18	3.2	70.7	0.80	51.1	63.8	0.385	0.104	0.125	0.33	NonLiqfble.
CPT-1	14	10.8	10.9	0.85	125	1844	1642	11.8	12.2	8.52	3.2	73.9	0.80	47.1	58.9	0.386	0.099	0.119	0.31	NonLiqfble.
CPT-1	14.08	10.8	10.4	0.79	125	1854	1647	11.2	11.5	8.34	3.2	74.8	0.80	44.9	56.1	0.387	0.096	0.116	0.30	NonLiqfble.
CPT-1	14.19	10.8	11.4	0.71	125	1868	1654	12.3	12.7	6.78	3.1	67.9	0.80	49.1	61.3	0.388	0.101	0.122	0.31	NonLiqfble.
CPT-1	14.27	10.8	10.7	0.67	125	1878	1659	11.5	11.8	6.86	3.2	69.9	0.80	46.0	57.5	0.389	0.098	0.117	0.30	NonLiqfble.
CPT-1	14.35	10.8	9.6	0.64	125	1888	1664	10.3	10.4	7.39	3.2	74.7	0.80	41.2	51.5	0.390	0.093	0.111	0.29	NonLiqfble.
CPT-1	14.44	10.8	8.5	0.62	125	1899	1669	9.1	9.0	8.21	3.3	80.9	0.80	36.4	45.5	0.391	0.089	0.107	0.27	NonLiqfble.
CPT-1	14.52	10.8	7.8	0.59	115	1909	1674	8.3	8.2	8.62	3.3	84.9	0.80	33.4	41.7	0.391	0.087	0.104	0.27	NonLiqfble.
CPT-1	14.61	10.8	7.3	0.52	115	1919	1679	7.8	7.5	8.20	3.4	86.0	0.80	31.2	39.0	0.392	0.086	0.103	0.26	NonLiqfble.
CPT-1	14.69	10.8	6.5	0.44	115	1928	1683	6.9	6.6	7.95	3.4	89.3	0.80	27.7	34.7	0.393	0.084	0.101	0.26	NonLiqfble.
CPT-1	14.78	10.8	5.4	0.37	105	1939	1688	5.8	5.2	8.35	3.5	97.6	0.80	23.0	28.8	0.394	0.082	0.099	0.25	NonLiqfble.
CPT-1	14.86	10.8	5	0.33	105	1947	1691	5.3	4.8	8.20	3.5	100.3	0.80	21.3	26.6	0.395	0.082	0.098	0.25	NonLiqfble.
CPT-1	14.95	10.8	5.1	0.32	105	1957	1695	5.4	4.9	7.76	3.5	98.2	0.80	21.7	27.1	0.396	0.082	0.098	0.25	NonLiqfble.
CPT-1	15.03	10.8	6.3	0.33	105	1965	1699	6.7	6.3	6.21	3.3	85.0	0.80	26.8	33.4	0.397	0.083	0.100	0.25	NonLiqfble.
CPT-1	15.12	10.8	6.5	0.35	115	1974	1702	6.9	6.5	6.35	3.3	84.5	0.80	27.6	34.5	0.398	0.084	0.101	0.25	NonLiqfble.
CPT-1	15.2	10.8	6.2	0.39	115	1984	1707	6.6	6.1	7.49	3.4	90.1	0.80	26.3	32.8	0.399	0.083	0.100	0.25	NonLiqfble.
CPT-1	15.29	10.8	7.3	0.4	115	1994	1711	7.7	7.4	6.35	3.3	80.8	0.80	30.9	38.6	0.400	0.085	0.102	0.26	NonLiqfble.
CPT-1	15.37	10.8	6.7	0.41	115	2003	1715	7.1	6.6	7.20	3.4	86.6	0.80	28.3	35.4	0.401	0.084	0.101	0.25	NonLiqfble.
CPT-1	15.41	10.8	8.6	0.42	115	2008	1718	9.1	8.8	5.53	3.2	72.8	0.80	36.3	45.4	0.401	0.089	0.106	0.27	NonLiqfble.
CPT-1	15.49	10.8	8.7	0.46	115	2017	1722	9.2	8.9	5.98	3.2	74.1	0.80	36.7	45.9	0.402	0.089	0.107	0.27	NonLiqfble.
CPT-1	15.58	10.8	9.5	0.5	115	2027	1727	10.0	9.8	5.89	3.2	71.3	0.80	40.0	50.0	0.403	0.092	0.110	0.27	NonLiqfble.
CPT-1	15.66	10.8	9.9	0.53	125	2037	1731	10.4	10.3	5.97	3.2	70.5	0.80	41.6	52.1	0.404	0.093	0.112	0.28	NonLiqfble.
CPT-1	15.74	10.8	10.5	0.58	125	2047	1736	11.0	10.9	6.12	3.2	69.4	0.80	44.1	55.1	0.405	0.096	0.115	0.28	NonLiqfble.
CPT-1	15.83	10.8	10.7	0.64	125	2058	1741	11.2	11.1	6.62	3.2	70.6	0.80	44.9	56.1	0.406	0.096	0.116	0.29	NonLiqfble.
CPT-1	15.91	10.8	10.9	0.66	125	2068	1746	11.4	11.3	6.69	3.2	70.4	0.80	45.6	57.1	0.407	0.097	0.117	0.29	NonLiqfble.
CPT-1	16	10.8	12.3	0.67	125	2079	1752	12.9	12.8	5.95	3.1	64.8	0.80	51.4	64.3	0.407	0.105	0.126	0.31	NonLiqfble.
CPT-1	16.08	10.8	11.1	0.7	125	2089	1757	11.6	11.4	6.96	3.2	70.9	0.80	46.3	57.9	0.408	0.098	0.118	0.29	NonLiqfble.
CPT-1	16.17	10.8	10.7	0.73	125	2100	1763	11.2	10.9	7.57	3.2	73.9	0.80	44.6	55.8	0.409	0.096	0.115	0.28	NonLiqfble.
CPT-1	16.25	10.8	11	0.72	125	2110	1768	11.4	11.2	7.24	3.2	72.2	0.80	45.8	57.2	0.410	0.097	0.117	0.29	NonLiqfble.
CPT-1	16.34	10.8	11.4	0.72	125	2122	1773	11.8	11.7	6.96	3.2	70.5	0.80	47.4	59.2	0.411	0.099	0.119	0.29	NonLiqfble.
CPT-1	16.42	10.8	12.2	0.73	125	2132	1778	12.7	12.5	6.56	3.1	67.4	0.80	50.6	63.3	0.412	0.104	0.124	0.30	NonLiqfble.
CPT-1	16.51	10.8	12.3	0.75	125	2143	1784	12.7	12.6	6.68	3.1	67.7	0.80	51.0	63.7	0.412	0.104	0.125	0.30	NonLiqfble.
CPT-1	16.6	10.8	11.9	0.74	125	2154	1790	12.3	12.1	6.84	3.2	69.2	0.80	49.2	61.5	0.413	0.102	0.122	0.30	NonLiqfble.
CPT-1	16.68	10.8	12.4	0.76	125	2164	1795	12.8	12.6	6.72	3.1	67.8	0.80	51.2	64.0	0.414	0.104	0.125	0.30	NonLiqfble.
CPT-1	16.77	10.8	11.8	0.76	125	2175	1800	12.2	11.9	7.09	3.2	70.4	0.80	48.7	60.8	0.415	0.101	0.121	0.29	NonLiqfble.
CPT-1	16.85	10.8	11.9	0.72	125	2185	1805	12.3	12.0	6.66	3.1	68.9	0.80	49.0	61.3	0.416	0.101	0.122	0.29	NonLiqfble.
CPT-1	16.93	10.8	11.8	0.7	125	2195	1810	12.1	11.8	6.54	3.1	68.8	0.80	48.5	60.7	0.416	0.101	0.121	0.29	NonLiqfble.
CPT-1	17.02	10.8	9.9	0.66	125	2207	1816	10.2	9.7	7.50	3.2	76.9	0.80	40.7	50.8	0.417	0.092	0.111	0.27	NonLiqfble.
CPT-1	17.11	10.8	8.9	0.61	125	2218	1822	9.1	8.6	7.83	3.3	81.3	0.80	36.5	45.6	0.418	0.089	0.107	0.25	NonLiqfble.
CPT-1	17.19	10.8	8.9	0.58	125	2228	1827	9.1	8.5	7.45	3.3	80.3	0.80	36.4	45.6	0.419	0.089	0.107	0.25	NonLiqfble.
CPT-1	17.27	10.8	9.4	0.58	125	2238	1832	9.6	9.0	7.00	3.3	77.2	0.80	38.4	48.1	0.419	0.090	0.108	0.26	NonLiqfble.
CPT-1	17.36	10.8	10.4	0.59	125	2249	1837	10.6	10.1	6.36	3.2	72.2	0.80	42.5	53.1	0.420	0.094	0.113	0.27	NonLiqfble.
CPT-1	17.44	10.8	9.1	0.62	125	2259	1842	9.3	8.6	7.78	3.3	80.8	0.80	37.1	46.4	0.421	0.089	0.107	0.25	NonLiqfble.
CPT-1	17.53	10.8	10.3	0.65	125	2270	1848	10.5	9.9	7.09	3.2	75.0	0.80	41.9	52.4	0.422	0.093	0.112	0.27	NonLiqfble.
CPT-1	17.61	10.8	11	0.68	125	2280	1853	11.2	10.6	6.90	3.2	72.6	0.80	44.7	55.9	0.423	0.096	0.116	0.27	NonLiqfble.
CPT-1	17.7	10.8	9.6	0.68	125	2292	1858	9.7	9.1	8.04	3.3	80.2	0.80	39.0	48.7	0.423	0.091	0.109	0.26	NonLiqfble.
CPT-1	17.78	10.8	10.1	0.67	125	2302	1863	10.2	9.6	7.49	3.3	77.1	0.80	40.9	51.2	0.424	0.092	0.111	0.26	NonLiqfble.
CPT-1	17.87	10.8	9.7	0.65	125	2313	1869	9.8	9.1	7.61	3.3	78.8	0.80	39.3	49.1	0.425	0.091	0.109	0.26	NonLiqfble.
CPT-1	17.95	10.8	9.2	0.62	125	2323	1874	9.3	8.6	7.71	3.3	80.9	0.80	37.2	46.5	0.426	0.089	0.107	0.25	NonLiqfble.
CPT-1	18.03	10.8	9.3	0.62	125	2333	1879	9.4	8.7	7.62	3.3	80.4	0.80	37.5	46.9	0.426	0.090	0.108	0.25	NonLiqfble.
CPT-1	18.12	10.8	8.6	0.67	125	2344	1885	8.7	7.9	9.02	3.4	87.0	0.80	34.7	43.3	0.427	0.088	0.105	0.25	NonLiqfble.
CPT-1	18.21	10.8	9.3	0.65	125	2355	1890	9.4	8.6	8.00	3.3	81.7	0.80	37.4	46.8	0.428	0.090	0.107	0.25	NonLiqfble.
CPT-1	18.29	10.8	13.2	0.67	125	2365	1895	13.3	12.7	5.58	3.1	63.8	0.80	53.1	66.3	0.428	0.107	0.129	0.30	NonLiqfble.
CPT-1	18.38	10.8	10.6	0.7	125	2377	1901	10.6	9.9	7.44	3.2	76.2	0.80	42.5	53.2	0.429	0.094	0.113	0.26	NonLiqfble.
CPT-1	18.46	10.8	10.9	0.69	125	2387	1906	10.9	10.2	7.11	3.2	74.4	0.80	43.7	54.6	0.430	0.095	0.114	0.27	NonLiqfble.
CPT-1	18.54	10.8	10.5	0.65	125															

Project Name: Baypointe Parkway
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 Date: January 2006
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 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q _{ts} (q _{ts})	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{cr}	Δq _{ts} (q _{ts})	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-1	19.83	10.8	9.7	0.48	115	2554	1988	9.5	8.5	5.70	3.2	74.5	0.80	38.1	47.6	0.441	0.090	0.108	0.24	NonLiqfble
CPT-1	19.92	10.8	9.8	0.51	125	2565	1993	9.6	8.5	5.99	3.2	75.4	0.80	38.4	48.0	0.442	0.090	0.108	0.25	NonLiqfble
CPT-1	20	10.8	9.6	0.53	125	2575	1998	9.4	8.3	6.38	3.3	77.4	0.80	37.6	47.0	0.433	0.090	0.108	0.25	NonLiqfble
CPT-1	20.08	10.8	9.8	0.54	125	2585	2003	9.6	8.5	6.35	3.2	76.8	0.80	38.3	47.9	0.434	0.090	0.108	0.25	NonLiqfble
CPT-1	20.17	10.8	9.5	0.56	125	2596	2009	9.3	8.2	6.83	3.3	79.5	0.80	37.1	46.4	0.435	0.089	0.107	0.25	NonLiqfble
CPT-1	20.25	10.8	10.6	0.56	125	2606	2014	10.3	9.2	6.02	3.2	73.4	0.80	41.3	51.7	0.435	0.093	0.111	0.26	NonLiqfble
CPT-1	20.34	10.8	10.7	0.56	125	2617	2019	10.4	9.3	5.96	3.2	73.0	0.80	41.7	52.1	0.436	0.093	0.112	0.26	NonLiqfble
CPT-1	20.42	10.8	10	0.58	125	2627	2024	9.7	8.6	6.68	3.3	77.6	0.80	38.9	48.6	0.436	0.091	0.109	0.25	NonLiqfble
CPT-1	20.51	10.8	10.6	0.57	125	2638	2030	10.3	9.1	6.14	3.2	74.1	0.80	41.2	51.5	0.437	0.093	0.111	0.25	NonLiqfble
CPT-1	20.59	10.8	9.9	0.56	125	2648	2035	9.6	8.4	6.53	3.3	77.6	0.80	38.4	48.0	0.438	0.090	0.108	0.25	NonLiqfble
CPT-1	20.68	10.8	10.6	0.57	125	2660	2041	10.3	9.1	6.15	3.2	74.3	0.80	41.1	51.3	0.438	0.093	0.111	0.25	NonLiqfble
CPT-1	20.76	10.8	10.2	0.57	125	2670	2046	9.9	8.7	6.43	3.2	76.5	0.80	39.5	49.3	0.439	0.091	0.109	0.25	NonLiqfble
CPT-1	20.84	10.8	10.8	0.56	125	2680	2051	10.4	9.2	5.92	3.2	73.1	0.80	41.7	52.2	0.439	0.093	0.112	0.25	NonLiqfble
CPT-1	20.93	10.8	10.9	0.57	125	2691	2056	10.5	9.3	5.97	3.2	73.0	0.80	42.1	52.6	0.440	0.094	0.112	0.25	NonLiqfble
CPT-1	21.01	10.8	10.9	0.58	125	2701	2061	10.5	9.3	6.07	3.2	73.5	0.80	42.0	52.5	0.441	0.093	0.112	0.25	NonLiqfble
CPT-1	21.1	10.8	11	0.59	125	2712	2067	10.6	9.3	6.12	3.2	73.5	0.80	42.3	52.9	0.441	0.094	0.113	0.26	NonLiqfble
CPT-1	21.18	10.8	11.5	0.62	125	2722	2072	11.1	9.8	6.12	3.2	72.2	0.80	44.2	55.3	0.442	0.096	0.115	0.26	NonLiqfble
CPT-1	21.26	10.8	11.8	0.64	125	2732	2077	11.3	10.0	6.13	3.2	71.6	0.80	45.3	56.6	0.442	0.097	0.116	0.26	NonLiqfble
CPT-1	21.35	10.8	11.5	0.66	125	2743	2083	11.0	9.7	6.52	3.2	73.7	0.80	44.1	55.1	0.443	0.096	0.115	0.26	NonLiqfble
CPT-1	21.44	10.8	11.4	0.66	125	2755	2088	10.9	9.6	6.59	3.2	74.3	0.80	43.7	54.6	0.444	0.095	0.114	0.26	NonLiqfble
CPT-1	21.52	10.8	11.4	0.65	125	2765	2093	10.9	9.6	6.49	3.2	74.0	0.80	43.6	54.5	0.444	0.095	0.114	0.26	NonLiqfble
CPT-1	21.61	10.8	11.1	0.71	125	2776	2099	10.6	9.2	7.31	3.3	77.6	0.80	42.4	53.0	0.445	0.094	0.113	0.25	NonLiqfble
CPT-1	21.69	10.8	11.1	0.71	125	2786	2104	10.6	9.2	7.31	3.3	77.7	0.80	42.4	52.9	0.445	0.094	0.113	0.25	NonLiqfble
CPT-1	21.77	10.8	11	0.69	125	2796	2109	10.5	9.1	7.19	3.3	77.6	0.80	41.9	52.4	0.446	0.093	0.112	0.25	NonLiqfble
CPT-1	21.85	10.8	10.7	0.73	125	2806	2114	10.2	8.8	7.85	3.3	80.6	0.80	40.7	50.9	0.446	0.092	0.111	0.25	NonLiqfble
CPT-1	21.89	10.8	12.9	0.73	125	2811	2116	12.3	10.9	6.35	3.2	70.3	0.80	49.1	61.3	0.447	0.101	0.122	0.27	NonLiqfble
CPT-1	21.98	10.8	13.5	0.73	125	2822	2122	12.8	11.4	6.04	3.1	68.1	0.80	51.3	64.1	0.447	0.105	0.125	0.28	NonLiqfble
CPT-1	22.06	10.8	14.9	0.76	125	2832	2127	14.1	12.7	5.64	3.1	64.1	0.80	56.5	70.7	0.448	0.113	0.135	0.30	NonLiqfble
CPT-1	22.15	10.8	18.4	0.82	125	2843	2133	17.4	15.9	4.83	3.0	55.9	0.80	69.7	87.2	0.448	0.142	0.170	0.38	NonLiqfble
CPT-1	22.23	10.8	21	0.9	135	2853	2138	19.9	18.3	4.60	2.9	52.1	0.80	79.5	99.4	0.449	0.171	0.205	0.46	NonLiqfble
CPT-1	22.31	10.8	21.7	0.98	135	2864	2144	20.5	18.9	4.84	2.9	52.3	0.80	82.0	102.5	0.449	0.180	0.216	0.48	NonLiqfble
CPT-1	22.4	10.8	22.5	1.07	135	2876	2150	21.2	19.6	5.08	2.9	52.5	0.80	84.9	106.2	0.450	0.191	0.230	0.51	NonLiqfble
CPT-1	22.48	10.8	22.7	1.13	135	2887	2156	21.4	19.7	5.32	2.9	53.2	0.80	85.6	107.0	0.450	0.194	0.233	0.52	NonLiqfble
CPT-1	22.56	10.8	22.6	1.13	135	2898	2162	21.3	19.6	5.34	2.9	53.4	0.80	85.1	106.3	0.451	0.192	0.230	0.51	NonLiqfble
CPT-1	22.65	10.8	21.5	1.1	135	2910	2168	20.2	18.5	5.49	2.9	55.1	0.80	80.8	101.0	0.451	0.176	0.211	0.47	NonLiqfble
CPT-1	22.74	10.8	20.4	1.04	135	2922	2175	19.1	17.4	5.49	3.0	56.4	0.80	76.6	95.7	0.452	0.162	0.194	0.43	NonLiqfble
CPT-1	22.82	10.8	20	0.98	135	2933	2181	18.7	17.0	5.29	3.0	56.2	0.80	75.0	93.7	0.452	0.157	0.188	0.42	NonLiqfble
CPT-1	22.9	10.8	21.5	0.91	135	2944	2186	20.1	18.3	4.54	2.9	51.9	0.80	80.5	100.6	0.453	0.175	0.210	0.46	NonLiqfble
CPT-1	22.99	10.8	24.4	0.86	135	2956	2193	22.8	20.9	3.75	2.8	46.0	0.80	91.2	114.0	0.453	0.218	0.261	0.58	NonLiqfble
CPT-1	23.07	10.8	28.1	0.85	135	2967	2199	26.2	24.2	3.19	2.7	40.8	0.80	104.9	131.1	0.454	0.290	0.347	0.77	NonLiqfble
CPT-1	23.15	10.8	28.2	0.9	135	2978	2205	26.3	24.2	3.37	2.7	41.6	0.80	105.1	131.4	0.454	0.291	0.349	0.77	NonLiqfble
CPT-1	23.24	10.8	26.9	0.95	135	2990	2211	25.0	23.0	3.74	2.8	44.2	0.80	100.1	125.2	0.455	0.262	0.315	0.69	NonLiqfble
CPT-1	23.32	10.8	26.1	0.96	135	3001	2217	24.3	22.2	3.90	2.8	45.5	0.80	97.0	121.3	0.455	0.246	0.295	0.65	NonLiqfble
CPT-1	23.4	10.8	24.6	0.96	135	3011	2223	22.8	20.8	4.16	2.8	47.8	0.80	91.3	114.2	0.456	0.218	0.262	0.57	NonLiqfble
CPT-1	23.48	10.8	23.7	0.96	135	3022	2228	22.0	19.9	4.33	2.9	49.3	0.80	87.9	109.8	0.456	0.203	0.244	0.53	NonLiqfble
CPT-1	23.57	10.8	21.8	0.93	135	3034	2235	20.2	18.1	4.59	2.9	52.2	0.80	80.7	100.9	0.457	0.175	0.211	0.46	NonLiqfble
CPT-1	23.65	10.8	21.2	0.91	135	3045	2241	19.6	17.6	4.62	2.9	53.0	0.80	78.4	98.0	0.457	0.167	0.201	0.44	NonLiqfble
CPT-1	23.74	10.8	19.4	0.86	135	3057	2247	17.9	15.9	4.81	3.0	55.9	0.80	71.6	89.5	0.458	0.147	0.176	0.38	NonLiqfble
CPT-1	23.82	10.8	18.5	0.78	125	3068	2253	17.1	15.1	4.60	3.0	56.2	0.80	68.2	85.3	0.458	0.138	0.165	0.36	NonLiqfble
CPT-1	23.9	10.8	17.2	0.71	125	3078	2258	15.8	13.9	4.53	3.0	57.8	0.80	63.3	79.2	0.458	0.126	0.151	0.33	NonLiqfble
CPT-1	23.98	10.8	16	0.68	125	3088	2263	14.7	12.8	4.70	3.0	60.4	0.80	58.9	73.6	0.459	0.117	0.140	0.31	NonLiqfble
CPT-1	24.06	10.8	13.6	0.66	125	3098	2268	12.5	10.6	5.48	3.1	67.8	0.80	50.0	62.5	0.459	0.103	0.123	0.27	NonLiqfble
CPT-1	24.15	10.8	11.5	0.66	125	3109	2274	10.6	8.7	6.64	3.2	77.0	0.80	42.2	52.8	0.460	0.094	0.112	0.24	NonLiqfble
CPT-1	24.23	10.8	12.2	0.73	125	3119	2279	11.2	9.3	6.86	3.2	75.9	0.80	44.7	55.9	0.460	0.096	0.116	0.25	NonLiqfble
CPT-1	24.31	10.8	12.4	0.84	125	3129	2284	11.4	9.5	7.75	3.3	78.2	0.80	45.4	56.8	0.461	0.097	0.116	0.25	NonLiqfble
CPT-1	24.4	10.8	17.1	0.93	125	3141	2289	15.6	13.6	5.99	3.1	63.7	0.80	62.5	78.2	0.461	0.124	0.149	0.32	NonLiqfble
CPT-1	24.48	10.8	27.8	0.92	125	3151	2294	25.4	22.8	3.51	2.8	43.3	0.80	101.6	127.0	0.462	0.270	0.324	0.70	NonLiqfble
CPT-1	24.56	10.8	32.2	0.83	125	3161	2299	29.4	26.6	2.71	2.6	36.8	0.80	117.5	146.9	0.462	0.375	0.450	0.97	NonLiqfble
CPT-1	24.64	10.8	28.2	0.82	125	3171	2304	25.7	23.1	3.08	2.7	41.1	0.80	102.8	128.5	0.463	0.277	0.333	0.73	NonLiqfble
CPT-1	24.73	10.8	21.3	0.92	125	3182	2310	19.4	17.1	4.67	2.9	53.8	0.80	77.6	97.0	0.463	0.165	0.198	0.43	NonLiqfble
CPT-1	24.81	10.8	16.5	1.04	125	3192	2315	15.0	12.9	6.98	3.1	68.1	0.80	60.0	75.0	0.464	0.119	0.143	0.31	NonLiqf

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q _{in}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	Δq _{in}	q _{in} (q _{in}) _{es}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	28.09	10.8	192.3	1.43	125	3352	2395	171.9	159.1	0.75	1.7	5.7	0.02	3.1	175.0	0.471	0.579	0.695	1.48	
CPT-1	28.17	10.8	194.4	1.45	125	3362	2400	173.6	160.5	0.75	1.7	5.6	0.02	3.0	176.6	0.471	0.592	0.711	1.51	
CPT-1	28.25	10.8	186.1	1.56	125	3372	2405	166.0	153.3	0.85	1.7	6.5	0.04	7.1	173.2	0.471	0.563	0.675	1.43	
CPT-1	28.33	10.8	188.7	1.52	125	3382	2410	168.2	155.1	0.81	1.7	6.2	0.03	5.8	174.0	0.472	0.570	0.684	1.45	
CPT-1	28.41	10.8	183.4	1.48	125	3392	2415	163.3	150.4	0.81	1.7	6.5	0.04	6.6	169.9	0.472	0.536	0.643	1.36	
CPT-1	28.49	10.8	187.4	1.8	125	3402	2420	166.7	153.4	0.97	1.8	7.3	0.06	11.1	177.7	0.473	0.602	0.722	1.53	
CPT-1	28.56	10.8	166.6	1.39	135	3411	2425	148.0	136.0	0.84	1.8	7.3	0.06	9.7	157.7	0.473	0.445	0.534	1.13	Low F.S.
CPT-1	28.64	10.8	158	1.39	135	3421	2430	140.2	128.6	0.89	1.8	8.0	0.08	12.2	152.4	0.473	0.409	0.491	1.04	Low F.S.
CPT-1	28.72	10.8	155.5	1.37	135	3432	2436	137.8	126.2	0.89	1.8	8.1	0.08	12.6	150.4	0.474	0.397	0.476	1.00	Low F.S.
CPT-1	28.79	10.8	152.2	1.51	135	3442	2441	134.8	123.2	1.00	1.8	9.1	0.11	16.3	151.1	0.474	0.401	0.481	1.01	Low F.S.
CPT-1	28.87	10.8	159.4	1.55	125	3452	2447	141.0	128.8	0.98	1.8	8.6	0.10	15.0	156.0	0.474	0.433	0.519	1.09	Low F.S.
CPT-1	28.95	10.8	166.3	1.37	125	3462	2452	146.9	134.2	0.83	1.8	7.3	0.06	9.7	156.6	0.475	0.437	0.525	1.11	Low F.S.
CPT-1	27.03	10.8	175.4	1.17	125	3472	2457	154.8	141.3	0.67	1.7	5.9	0.02	3.6	158.4	0.475	0.450	0.540	1.14	Low F.S.
CPT-1	27.1	10.8	168.6	1.32	125	3481	2462	148.7	135.5	0.79	1.7	7.0	0.05	8.2	156.9	0.476	0.439	0.527	1.11	Low F.S.
CPT-1	27.18	10.8	166.1	1.08	125	3491	2467	146.3	133.2	0.66	1.7	6.1	0.03	4.4	150.8	0.476	0.399	0.478	1.00	Low F.S.
CPT-1	27.26	10.8	172.7	1.1	125	3501	2472	152.0	138.3	0.64	1.7	5.8	0.02	3.1	155.1	0.476	0.427	0.513	1.08	Low F.S.
CPT-1	27.33	10.8	176.3	0.89	135	3510	2476	155.0	140.9	0.51	1.6	4.6	0.00	0.0	155.0	0.477	0.426	0.512	1.07	Low F.S.
CPT-1	27.4	10.8	175.2	0.7	125	3519	2481	153.9	139.8	0.40	1.6	3.7	0.00	0.0	153.9	0.477	0.419	0.503	1.05	Low F.S.
CPT-1	27.48	10.8	179.6	0.72	125	3529	2486	157.6	143.0	0.40	1.6	3.6	0.00	0.0	157.6	0.477	0.444	0.533	1.12	Low F.S.
CPT-1	27.56	10.8	166.5	1.19	125	3539	2491	146.0	132.2	0.72	1.7	6.6	0.04	6.7	152.6	0.478	0.411	0.493	1.03	Low F.S.
CPT-1	27.63	10.8	152.3	1.35	125	3548	2495	133.4	120.6	0.90	1.8	8.5	0.09	13.8	147.2	0.478	0.376	0.452	0.94	Liquefaction
CPT-1	27.71	10.8	143.1	1.25	125	3558	2500	125.2	113.0	0.88	1.8	8.9	0.10	14.5	139.7	0.479	0.334	0.401	0.84	Liquefaction
CPT-1	27.79	10.8	123.6	1.12	125	3568	2505	108.0	97.2	0.99	1.9	10.8	0.15	19.7	127.7	0.479	0.274	0.329	0.69	Liquefaction
CPT-1	27.86	10.8	103.1	1.12	125	3577	2510	90.0	80.7	1.11	2.0	13.2	0.22	25.3	115.4	0.479	0.223	0.267	0.56	Liquefaction
CPT-1	27.94	10.8	112.6	2.18	125	3587	2515	98.2	88.1	1.97	2.1	17.3	0.33	48.2	146.4	0.480	0.372	0.446	0.93	Liquefaction
CPT-1	28.02	10.8	117.5	2.24	135	3597	2520	102.4	91.8	1.94	2.1	16.8	0.31	46.9	149.4	0.480	0.390	0.468	0.97	Liquefaction
CPT-1	28.1	10.8	131.9	1.75	135	3608	2526	114.8	103.0	1.35	2.0	12.6	0.20	29.1	143.9	0.480	0.357	0.429	0.89	Liquefaction
CPT-1	28.17	10.8	158	1.8	135	3617	2531	137.4	123.4	1.15	1.9	10.0	0.13	21.0	158.5	0.481	0.450	0.540	1.12	Low F.S.
CPT-1	28.25	10.8	139.8	1.97	135	3628	2537	121.5	108.8	1.43	2.0	12.6	0.20	30.8	152.3	0.481	0.408	0.490	1.02	Low F.S.
CPT-1	28.33	10.8	161.4	2.12	135	3639	2542	140.1	125.5	1.33	1.9	10.9	0.16	26.1	166.1	0.481	0.506	0.607	1.26	
CPT-1	28.4	10.8	188.3	2.14	135	3648	2547	163.2	146.3	1.15	1.8	8.7	0.10	18.0	181.2	0.482	0.634	0.760	1.58	
CPT-1	28.6	10.8	208	1.88	135	3675	2562	179.8	160.9	0.91	1.7	6.7	0.04	8.4	188.2	0.482	0.700	0.840	1.74	
CPT-1	28.68	10.8	230	2.03	135	3686	2568	198.6	177.6	0.89	1.7	5.9	0.02	5.1	203.7	0.483	0.866	1.039	2.15	
CPT-1	28.76	10.8	232.8	2.21	135	3697	2574	200.8	179.4	0.96	1.7	6.3	0.03	7.2	207.9	0.483	0.916	1.100	2.28	
CPT-1	28.83	10.8	228.6	2.38	135	3706	2579	197.0	175.8	1.05	1.7	7.0	0.05	10.9	207.9	0.483	0.915	1.098	2.27	
CPT-1	28.92	10.8	225.2	2.58	135	3718	2585	193.8	172.7	1.16	1.8	7.7	0.07	14.9	208.7	0.484	0.926	1.111	2.30	
CPT-1	29.25	10.8	204.7	2.04	135	3763	2609	175.3	155.4	1.01	1.8	7.5	0.07	12.4	187.7	0.485	0.695	0.834	1.72	
CPT-1	29.48	10.8	208.2	1.64	135	3794	2626	177.8	157.1	0.79	1.7	6.1	0.03	5.1	182.9	0.486	0.649	0.779	1.60	
CPT-1	29.56	10.8	216.5	1.2	135	3805	2632	184.7	163.0	0.56	1.6	4.1	0.00	0.0	184.7	0.486	0.666	0.799	1.64	
CPT-1	29.63	10.8	215.3	1.11	135	3814	2637	183.5	161.8	0.52	1.6	3.9	0.00	0.0	183.5	0.487	0.654	0.785	1.61	
CPT-1	29.71	10.8	221.9	1.33	135	3825	2643	188.9	166.4	0.60	1.6	4.4	0.00	0.0	188.9	0.487	0.707	0.848	1.74	
CPT-1	29.79	10.8	228.6	1.38	135	3836	2648	194.4	171.1	0.61	1.6	4.3	0.00	0.0	194.4	0.487	0.763	0.915	1.88	
CPT-1	29.87	10.8	231.9	1.47	135	3847	2654	196.9	173.2	0.64	1.6	4.4	0.00	0.0	196.9	0.487	0.790	0.949	1.95	
CPT-1	29.94	10.8	235.2	1.49	135	3856	2659	199.6	175.4	0.64	1.6	4.3	0.00	0.0	199.6	0.488	0.819	0.983	2.02	
CPT-1	30.02	10.8	237.8	1.59	135	3867	2665	201.5	176.9	0.67	1.6	4.5	0.00	0.0	201.5	0.488	0.841	1.010	2.16	
CPT-1	30.1	10.8	244.9	1.63	135	3878	2671	207.3	181.9	0.67	1.6	4.4	0.00	0.0	207.3	0.468	0.909	1.091	2.33	
CPT-1	30.17	10.8	248.2	1.46	135	3887	2676	209.9	184.0	0.59	1.6	3.7	0.00	0.0	209.9	0.468	0.940	1.129	2.41	
CPT-1	30.25	10.8	248.3	1.48	135	3898	2682	209.8	183.6	0.60	1.6	3.8	0.00	0.0	209.8	0.468	0.939	1.126	2.40	
CPT-1	30.33	10.8	240.2	1.8	135	3909	2688	202.7	177.2	0.76	1.6	5.1	0.00	0.4	203.2	0.469	0.860	1.032	2.20	
CPT-1	30.4	10.8	248.2	1.75	135	3918	2693	209.3	182.8	0.71	1.6	4.6	0.00	0.0	209.3	0.469	0.932	1.119	2.39	
CPT-1	30.48	10.8	261.2	1.9	135	3929	2698	220.0	192.1	0.73	1.6	4.5	0.00	0.0	220.0	0.469	1.070	1.284	2.74	
CPT-1	30.55	10.8	279.1	2.01	135	3938	2704	234.9	204.9	0.73	1.6	4.1	0.00	0.0	234.9	0.470	1.285	1.542	3.28	
CPT-1	30.62	10.8	285	2.25	135	3948	2709	239.6	208.9	0.79	1.6	4.5	0.00	0.0	239.6	0.470	1.359	1.631	3.47	
CPT-1	30.7	10.8	283.9	2.29	135	3959	2714	238.4	207.6	0.81	1.6	4.6	0.00	0.0	238.4	0.470	1.340	1.608	3.42	
CPT-1	30.77	10.8	293.6	2.35	135	3968	2720	246.3	214.4	0.81	1.6	4.4	0.00	0.0	246.3	0.470	1.470	1.764	3.75	
CPT-1	30.85	10.8	298.1	1.99	135	3979	2725	249.8	217.2	0.67	1.5	3.5	0.00	0.0	249.8	0.471	1.530	1.836	3.90	
CPT-1	30.92	10.8	302.8	1.95	135	3988	2730	253.5	220.2	0.65	1.5	3.2	0.00	0.0	253.5	0.471	1.596	1.915	4.07	
CPT-1	30.99	10.8	307.9	2.21	135	3998	2735	257.6	223.6	0.72	1.6	3.7	0.00	0.0	257.6	0.471	1.669	2.003	4.25	
CPT-1	31.07	10.8	300.1	2.77	135	4009	2741	250.8	217.4	0.93	1.6	5.1	0.00	0.4	251.2	0.471	1.554	1.865	3.96	
CPT-1	31.14	10.8	280.4	2.73	135	4018	2746	234.1	202.6	0.98	1.7	5.7	0.02	4.7	238.8	0.472	1.347	1.616	3.43	
CPT-1	31.21	10.8	277.1	2.5	135	4028	2751	231.1	199.9	0.91	1.7	5.4	0.01	2.4	233.6	0.472	1.265	1.518	3.22	
CPT-1	31.29	10.8	259.5	2.21	135	4038	2757	216.2	186.7	0.86	1.7	5								

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{ts}	Corr. Tip Q	Friction Ratio F	F.C. (%)	K _{cor}	Δq_{ts}	(q_{ts}) ₀	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-1	32.44	10.8	147.2	2.3	135	4194	2841	120.8	102.1	1.59	2.0	14.0	0.24	38.1	159.0	0.476	0.454	0.544	1.14	Low F.S.
CPT-1	32.52	10.8	136.6	2.43	135	4204	2847	112.0	94.5	1.81	2.1	15.8	0.29	45.7	157.7	0.476	0.445	0.534	1.12	Low F.S.
CPT-1	32.6	10.8	133.8	2.42	135	4215	2852	109.6	92.3	1.84	2.1	16.2	0.30	46.9	156.5	0.476	0.437	0.524	1.10	Low F.S.
CPT-1	32.67	10.8	134.4	2.3	135	4225	2857	110.0	92.6	1.74	2.1	15.7	0.29	43.9	153.9	0.477	0.419	0.503	1.06	Low F.S.
CPT-1	32.75	10.8	130.6	2.08	135	4235	2863	106.8	89.7	1.62	2.1	15.3	0.28	40.7	147.5	0.477	0.379	0.454	0.95	Liquefaction
CPT-1	32.82	10.8	125.1	1.81	135	4245	2868	102.2	85.7	1.47	2.1	14.9	0.27	36.9	139.1	0.477	0.331	0.397	0.83	Liquefaction
CPT-1	32.9	10.8	122.3	1.71	135	4256	2874	99.8	83.6	1.42	2.1	14.9	0.26	35.8	135.7	0.477	0.312	0.375	0.78	Liquefaction
CPT-1	32.98	10.8	118.3	1.58	135	4267	2880	96.5	80.6	1.36	2.1	14.9	0.26	34.5	130.9	0.478	0.289	0.346	0.73	Liquefaction
CPT-1	33.06	10.8	125.7	1.44	135	4277	2886	102.4	85.6	1.17	2.0	13.1	0.22	28.2	130.5	0.478	0.287	0.344	0.72	Liquefaction
CPT-1	33.14	10.8	142.2	1.77	135	4288	2892	115.7	96.8	1.26	2.0	12.6	0.20	29.5	145.2	0.478	0.365	0.438	0.92	Liquefaction
CPT-1	33.22	10.8	173.1	2.55	135	4299	2897	140.7	118.0	1.49	2.0	12.3	0.19	33.8	174.5	0.478	0.575	0.689	1.44	Liquefaction
CPT-1	33.29	10.8	197.2	2.87	135	4308	2902	160.2	134.3	1.47	1.9	11.1	0.16	31.4	191.5	0.478	0.734	0.880	1.84	Liquefaction
CPT-1	33.36	10.8	221.4	3.16	135	4318	2908	179.7	150.7	1.44	1.9	10.1	0.14	28.6	208.2	0.479	0.919	1.103	2.31	Liquefaction
CPT-1	33.44	10.8	208.6	3.12	135	4329	2913	169.1	141.7	1.51	1.9	11.0	0.16	31.9	201.0	0.479	0.836	1.003	2.09	Liquefaction
CPT-1	33.52	10.8	202.1	3.03	135	4339	2919	163.7	136.9	1.52	1.9	11.2	0.17	32.6	196.3	0.479	0.783	0.940	1.96	Liquefaction
CPT-1	33.59	10.8	201.1	2.69	135	4349	2924	162.7	136.0	1.35	1.9	10.4	0.14	27.4	190.1	0.479	0.719	0.863	1.80	Liquefaction
CPT-1	33.66	10.8	196.9	2.07	135	4358	2929	159.2	132.9	1.06	1.8	8.9	0.10	18.4	177.6	0.480	0.601	0.721	1.50	Liquefaction
CPT-1	33.74	10.8	191.6	1.82	135	4369	2935	154.7	129.0	0.96	1.8	8.4	0.09	15.7	170.4	0.480	0.540	0.648	1.35	Liquefaction
CPT-1	33.82	10.8	183	1.59	135	4380	2941	147.6	122.9	0.88	1.8	8.2	0.09	14.0	161.7	0.480	0.473	0.567	1.18	Low F.S.
CPT-1	33.89	10.8	174.5	1.29	135	4389	2946	140.7	116.9	0.75	1.8	7.7	0.07	10.8	151.5	0.480	0.403	0.484	1.01	Low F.S.
CPT-1	33.97	10.8	174.9	1.29	135	4400	2952	140.9	117.0	0.75	1.8	7.7	0.07	10.7	151.6	0.480	0.404	0.485	1.01	Low F.S.
CPT-1	34.05	10.8	167.3	1.19	135	4411	2958	134.6	111.6	0.72	1.8	7.8	0.07	10.9	145.5	0.481	0.366	0.439	0.91	Liquefaction
CPT-1	34.12	10.8	162.1	1.02	135	4420	2963	130.3	107.9	0.64	1.8	7.4	0.06	8.9	139.2	0.481	0.331	0.397	0.83	Liquefaction
CPT-1	34.2	10.8	169.4	1.44	135	4431	2969	136.0	112.6	0.86	1.8	8.8	0.10	15.2	151.2	0.481	0.402	0.482	1.00	Low F.S.
CPT-1	34.28	10.8	172.2	2.33	135	4442	2974	138.2	114.2	1.37	2.0	11.9	0.18	30.9	169.1	0.481	0.530	0.635	1.32	Liquefaction
CPT-1	34.35	10.8	171	2.33	135	4451	2979	137.1	113.2	1.38	2.0	12.0	0.19	31.4	168.5	0.482	0.525	0.629	1.31	Liquefaction
CPT-1	34.43	10.8	174.1	2.1	135	4462	2985	139.4	115.1	1.22	1.9	10.9	0.16	26.2	165.6	0.482	0.503	0.603	1.25	Liquefaction
CPT-1	34.5	10.8	197.6	2.06	135	4472	2990	158.1	130.6	1.05	1.8	9.0	0.11	18.7	176.8	0.482	0.594	0.712	1.48	Liquefaction
CPT-1	34.58	10.8	174.3	1.9	135	4483	2996	139.3	114.8	1.10	1.9	10.2	0.14	22.6	161.9	0.482	0.475	0.570	1.18	Low F.S.
CPT-1	34.65	10.8	176.2	2.24	135	4492	3001	140.7	115.9	1.29	1.9	11.3	0.17	28.2	169.0	0.482	0.529	0.634	1.32	Liquefaction
CPT-1	34.73	10.8	177.2	2.17	135	4503	3007	141.4	116.3	1.24	1.9	11.0	0.16	26.7	168.1	0.483	0.522	0.626	1.30	Liquefaction
CPT-1	34.81	10.8	181.4	1.86	135	4514	3013	144.6	118.9	1.04	1.9	9.5	0.12	20.0	164.6	0.483	0.494	0.593	1.23	Liquefaction
CPT-1	34.89	10.8	174.9	1.72	135	4524	3019	139.3	114.3	1.00	1.9	9.6	0.12	19.3	158.6	0.483	0.451	0.541	1.12	Low F.S.
CPT-1	34.96	10.8	172.3	1.43	135	4534	3024	137.1	112.4	0.84	1.8	8.6	0.10	14.7	151.8	0.483	0.405	0.486	1.01	Low F.S.
CPT-1	35.04	10.8	157.9	1.02	135	4545	3030	125.5	102.7	0.66	1.8	7.9	0.08	10.5	136.0	0.484	0.314	0.377	0.78	Liquefaction
CPT-1	35.12	10.8	164.5	0.85	135	4555	3035	130.6	106.8	0.52	1.7	6.5	0.04	5.5	136.1	0.484	0.314	0.377	0.78	Liquefaction
CPT-1	35.2	10.8	171.4	0.92	135	4566	3041	136.0	111.2	0.54	1.7	6.4	0.04	5.3	141.3	0.484	0.342	0.411	0.85	Liquefaction
CPT-1	35.28	10.8	179.8	1.22	135	4577	3047	142.5	116.5	0.69	1.8	7.2	0.06	9.0	151.6	0.484	0.404	0.485	1.00	Low F.S.
CPT-1	35.35	10.8	188.6	1.42	135	4586	3052	149.4	122.0	0.76	1.8	7.5	0.07	10.5	159.9	0.484	0.460	0.552	1.14	Low F.S.
CPT-1	35.43	10.8	181.1	1.11	135	4597	3058	143.3	116.9	0.62	1.7	6.7	0.05	6.8	150.1	0.485	0.394	0.473	0.98	Liquefaction
CPT-1	35.47	10.8	145.3	1.21	135	4603	3061	114.9	93.4	0.85	1.9	10.1	0.14	18.2	133.1	0.485	0.299	0.359	0.74	Liquefaction
CPT-1	35.54	10.8	183.6	1.24	125	4612	3066	145.1	118.2	0.68	1.8	7.1	0.06	8.6	153.7	0.485	0.418	0.501	1.03	Low F.S.
CPT-1	35.62	10.8	190.2	1.24	125	4622	3071	150.2	122.3	0.66	1.7	6.7	0.05	7.1	157.3	0.485	0.442	0.530	1.09	Low F.S.
CPT-1	35.7	10.8	189.9	1.33	125	4632	3076	149.8	121.9	0.71	1.7	7.1	0.06	8.8	158.6	0.485	0.451	0.542	1.12	Low F.S.
CPT-1	35.78	10.8	189.6	1.51	125	4642	3081	149.5	121.5	0.81	1.8	7.8	0.08	12.1	161.6	0.486	0.473	0.567	1.17	Low F.S.
CPT-1	35.86	10.8	188.2	1.51	125	4652	3086	148.2	120.4	0.81	1.8	7.9	0.08	12.6	160.8	0.486	0.467	0.560	1.15	Low F.S.
CPT-1	35.94	10.8	183.6	1.4	125	4662	3091	144.5	117.2	0.77	1.8	7.8	0.08	11.8	156.3	0.486	0.435	0.522	1.07	Low F.S.
CPT-1	36.02	10.8	178.5	1.41	125	4672	3096	140.4	113.8	0.80	1.8	8.2	0.09	13.3	153.7	0.486	0.418	0.501	1.03	Low F.S.
CPT-1	36.1	10.8	173.5	1.36	125	4682	3101	136.3	110.3	0.79	1.8	8.4	0.09	13.7	150.1	0.487	0.394	0.473	0.97	Liquefaction
CPT-1	36.18	10.8	176	1.28	125	4692	3106	138.2	111.8	0.74	1.8	7.9	0.08	11.6	149.8	0.487	0.393	0.471	0.97	Liquefaction
CPT-1	36.26	10.8	171.8	1.17	125	4702	3111	134.8	108.9	0.69	1.8	7.7	0.07	10.6	145.4	0.487	0.366	0.439	0.90	Liquefaction
CPT-1	36.34	10.8	172.4	1.03	125	4712	3116	135.1	109.1	0.61	1.7	7.0	0.05	7.8	143.0	0.487	0.352	0.422	0.87	Liquefaction
CPT-1	36.42	10.8	169.6	0.95	125	4722	3121	132.8	107.1	0.57	1.7	6.9	0.05	7.0	139.8	0.488	0.334	0.401	0.82	Liquefaction
CPT-1	36.5	10.8	168.9	1.02	115	4732	3126	132.2	106.5	0.61	1.8	7.3	0.06	8.6	140.7	0.488	0.339	0.407	0.83	Liquefaction
CPT-1	36.58	10.8	159.7	1.36	115	4741	3130	124.9	100.5	0.86	1.9	9.7	0.12	17.7	142.6	0.488	0.350	0.420	0.86	Liquefaction
CPT-1	36.66	10.8	146.2	1.53	115	4751	3134	114.3	91.7	1.06	2.0	11.8	0.18	25.3	139.6	0.489	0.333	0.400	0.82	Liquefaction
CPT-1	36.74	10.8	127.7	1.51	105	4760	3139	99.7	79.8	1.20	2.0	14.0	0.24	31.5	131.2	0.489	0.290	0.348	0.71	Liquefaction
CPT-1	36.83	10.8	120.2	1.48	105	4769	3142	93.8	75.0	1.26	2.1	14.9	0.26	33.8	127.6	0.489	0.273	0.328	0.67	Liquefaction
CPT-1	36.9	10.8	114	1.38	105	4777	3145	88.9	70.9	1.24	2.1	15.3	0.28	33.9	122.8	0.489	0.252	0.303	0.62	Liquefaction
CPT-1	36.99	10.8	117.5	1.15	105	4786	3149	91.6	73.1	1.00	2.0	13.4	0.22	26.5	118.1	0.490	0.233	0.280	0.57	Liquefaction
CPT-1	37.07	10.8	116.9	0.83	115	4794	3153	91.1	72.6	0.72	1.9	11.3	0.17	18.5	109.6	0.490	0.2			

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 PGA (g): 0.539
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Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{in}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	Kept	Δq_{in}	$(q_{in})_{es}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	38.37	10.8	33.5	1.46	125	4951	3228	25.8	19.2	4.71	2.9	51.5	0.80	103.2	129.0	0.494	0.280	0.335	0.68	NonLiqfble.
CPT-1	38.46	10.8	27.6	1.57	125	4963	3234	21.2	15.5	6.25	3.0	61.4	0.80	84.9	106.2	0.495	0.191	0.230	0.46	NonLiqfble.
CPT-1	38.54	10.8	41	1.39	125	4973	3239	31.5	23.8	3.61	2.7	43.0	0.80	126.1	157.6	0.495	0.444	0.533	1.08	NonLiqfble.
CPT-1	38.62	10.8	42.7	1.47	125	4983	3244	32.8	24.8	3.66	2.7	42.4	0.80	131.2	164.0	0.495	0.490	0.588	1.19	NonLiqfble.
CPT-1	38.7	10.8	30.5	1.34	125	4993	3249	23.4	17.2	4.79	2.9	54.0	0.80	93.6	117.1	0.495	0.229	0.275	0.56	NonLiqfble.
CPT-1	38.76	10.8	20.7	1.26	125	5000	3253	15.9	11.2	6.92	3.2	71.4	0.80	63.5	79.4	0.495	0.127	0.152	0.31	NonLiqfble.
CPT-1	38.79	10.8	23.6	1.22	125	5004	3255	18.1	13.0	5.78	3.1	64.0	0.80	72.4	90.5	0.496	0.149	0.179	0.36	NonLiqfble.
CPT-1	38.87	10.8	14.9	1.07	125	5014	3260	11.4	7.6	8.63	3.4	87.0	0.80	45.7	57.1	0.496	0.097	0.117	0.24	NonLiqfble.
CPT-1	38.96	10.8	13.1	0.82	125	5025	3265	10.0	6.5	7.75	3.4	89.1	0.80	40.1	50.2	0.496	0.092	0.110	0.22	NonLiqfble.
CPT-1	39.04	10.8	11.6	0.62	125	5035	3270	8.9	5.6	6.83	3.4	90.9	0.80	35.5	44.4	0.496	0.088	0.106	0.21	NonLiqfble.
CPT-1	39.12	10.8	10	0.54	125	5045	3275	7.6	4.6	7.22	3.5	98.5	0.80	30.6	38.2	0.496	0.085	0.102	0.21	NonLiqfble.
CPT-1	39.21	10.8	8.5	0.5	125	5056	3281	6.5	3.6	8.37	3.6	110.1	0.80	26.0	32.5	0.497	0.083	0.100	0.20	NonLiqfble.
CPT-1	39.3	10.8	8	0.48	125	5068	3287	6.1	3.3	8.78	3.7	114.7	0.80	24.4	30.5	0.497	0.083	0.099	0.20	NonLiqfble.
CPT-1	39.38	10.8	8.2	0.5	125	5078	3292	6.3	3.4	8.83	3.6	113.6	0.80	25.0	31.3	0.497	0.083	0.099	0.20	NonLiqfble.
CPT-1	39.46	10.8	9	0.51	125	5088	3297	6.9	3.9	7.90	3.6	106.0	0.80	27.4	34.3	0.497	0.084	0.101	0.20	NonLiqfble.
CPT-1	39.55	10.8	23.3	0.6	125	5099	3302	17.7	12.6	2.89	2.9	52.4	0.80	71.0	88.7	0.498	0.145	0.174	0.35	NonLiqfble.
CPT-1	39.63	10.8	54.2	0.78	125	5109	3307	41.2	31.2	1.51	2.4	27.3	0.59	60.5	101.7	0.498	0.178	0.213	0.43	Liquefaction
CPT-1	39.72	10.8	52	0.83	125	5120	3313	39.5	29.8	1.68	2.5	29.1	0.64	71.2	110.7	0.498	0.206	0.247	0.50	Liquefaction
CPT-1	39.81	10.8	45.4	0.75	125	5131	3319	34.5	25.8	1.75	2.5	31.8	0.72	87.1	121.6	0.498	0.247	0.297	0.60	Liquefaction
CPT-1	39.89	10.8	35.1	1.23	125	5141	3324	26.6	19.6	3.78	2.8	47.4	0.80	106.6	133.2	0.499	0.300	0.360	0.72	NonLiqfble.
CPT-1	39.98	10.8	68.4	1.89	125	5153	3329	51.9	39.5	2.87	2.5	31.4	0.70	123.1	175.0	0.499	0.578	0.694	1.39	NonLiqfble.
CPT-1	40.07	10.8	91.8	1.63	125	5164	3335	69.6	53.5	1.83	2.3	22.0	0.45	58.0	127.6	0.461	0.273	0.328	0.71	Liquefaction
CPT-1	40.15	10.8	107.6	1.49	125	5174	3340	81.5	62.9	1.42	2.2	17.8	0.34	42.1	123.6	0.461	0.255	0.307	0.66	Liquefaction
CPT-1	40.23	10.8	91.7	1.39	125	5184	3345	69.4	53.3	1.56	2.2	20.5	0.41	49.1	118.4	0.462	0.234	0.281	0.61	Liquefaction
CPT-1	40.32	10.8	118.9	1.35	125	5195	3350	89.9	69.4	1.16	2.1	15.0	0.27	33.0	122.8	0.462	0.252	0.303	0.66	Liquefaction
CPT-1	40.4	10.8	151.5	1.35	125	5205	3355	114.4	88.7	0.91	1.9	11.0	0.16	21.8	136.2	0.462	0.315	0.378	0.82	Liquefaction
CPT-1	40.48	10.8	183.6	1.3	125	5215	3360	138.6	107.7	0.72	1.8	8.0	0.08	12.2	150.8	0.462	0.399	0.479	1.04	Low F.S.
CPT-1	40.57	10.8	214.1	1.24	125	5226	3366	161.5	125.6	0.59	1.7	5.9	0.02	4.1	165.6	0.462	0.502	0.603	1.30	Liquefaction
CPT-1	40.64	10.8	217.6	1.24	125	5235	3370	164.0	127.5	0.58	1.7	5.8	0.02	3.4	167.4	0.463	0.516	0.619	1.34	Liquefaction
CPT-1	40.73	10.8	229.4	1.45	125	5246	3376	172.7	134.3	0.64	1.7	5.9	0.02	4.3	177.1	0.463	0.596	0.716	1.55	Liquefaction
CPT-1	40.81	10.8	235.5	1.52	125	5256	3381	177.2	137.7	0.65	1.7	5.9	0.02	4.1	181.4	0.463	0.635	0.762	1.65	Liquefaction
CPT-1	40.89	10.8	227.7	1.58	125	5266	3386	171.2	132.9	0.70	1.7	6.5	0.04	6.9	178.1	0.463	0.606	0.727	1.57	Liquefaction
CPT-1	40.97	10.8	244.3	1.95	125	5276	3391	183.6	142.5	0.81	1.7	6.7	0.05	9.0	192.5	0.463	0.744	0.892	1.93	Liquefaction
CPT-1	41.05	10.8	252.8	1.95	125	5286	3396	189.8	147.3	0.78	1.7	6.3	0.04	7.1	196.9	0.464	0.790	0.948	2.04	Liquefaction
CPT-1	41.13	10.8	262.8	2.02	125	5296	3401	197.2	152.9	0.78	1.7	6.1	0.03	5.9	203.1	0.464	0.859	1.031	2.22	Liquefaction
CPT-1	41.21	10.8	266.7	2.3	125	5306	3406	199.9	155.0	0.87	1.7	6.6	0.04	9.1	209.1	0.464	0.930	1.116	2.41	Liquefaction
CPT-1	41.29	10.8	268.5	2.45	115	5316	3411	201.1	155.8	0.92	1.7	6.9	0.05	10.9	212.1	0.464	0.967	1.160	2.50	Liquefaction
CPT-1	41.37	10.8	269.9	2.15	115	5325	3415	202.1	156.4	0.80	1.7	6.1	0.03	6.3	208.4	0.464	0.922	1.106	2.38	Liquefaction
CPT-1	41.45	10.8	275.9	1.77	115	5335	3420	206.4	159.7	0.65	1.6	4.9	0.00	0.0	206.4	0.465	0.898	1.078	2.32	Liquefaction
CPT-1	41.53	10.8	262.9	1.54	115	5344	3424	196.6	151.9	0.59	1.6	4.8	0.00	0.0	196.6	0.465	0.787	0.944	2.03	Liquefaction
CPT-1	41.61	10.8	255.6	1.37	115	5353	3428	191.0	147.5	0.54	1.6	4.6	0.00	0.0	191.0	0.465	0.728	0.874	1.88	Liquefaction
CPT-1	41.69	10.8	247.5	1.04	125	5362	3432	184.8	142.6	0.42	1.6	3.8	0.00	0.0	184.8	0.465	0.667	0.801	1.72	Liquefaction
CPT-1	41.77	10.8	240.9	1.12	125	5372	3437	179.8	138.5	0.47	1.6	4.4	0.00	0.0	179.8	0.465	0.620	0.745	1.60	Liquefaction
CPT-1	41.85	10.8	234.9	1.36	125	5382	3442	175.2	134.9	0.59	1.7	5.5	0.01	2.2	177.4	0.466	0.599	0.719	1.54	Liquefaction
CPT-1	41.93	10.8	223.3	1.87	125	5392	3447	166.4	127.9	0.85	1.8	7.7	0.07	13.2	179.6	0.466	0.619	0.742	1.59	Liquefaction
CPT-1	42	10.8	218.8	1.53	125	5401	3452	162.9	125.2	0.71	1.7	6.9	0.05	8.7	171.6	0.466	0.550	0.660	1.42	Liquefaction
CPT-1	42.03	10.8	208.4	1.5	125	5405	3454	155.2	119.1	0.73	1.8	7.4	0.06	10.6	165.8	0.466	0.504	0.604	1.30	Liquefaction
CPT-1	42.11	10.8	229.4	1.48	125	5415	3459	170.7	131.0	0.65	1.7	6.2	0.03	5.5	176.2	0.466	0.589	0.707	1.52	Liquefaction
CPT-1	42.19	10.8	220.9	1.4	125	5425	3464	164.2	125.9	0.64	1.7	6.3	0.04	6.1	170.4	0.466	0.540	0.648	1.39	Liquefaction
CPT-1	42.27	10.8	214.4	1.24	125	5435	3469	159.3	122.0	0.59	1.7	6.1	0.03	4.9	164.2	0.467	0.492	0.590	1.26	Liquefaction
CPT-1	42.35	10.8	216	1.05	125	5445	3474	160.4	122.7	0.49	1.7	5.3	0.01	1.3	161.6	0.467	0.473	0.567	1.22	Liquefaction
CPT-1	42.43	10.8	193.4	0.94	125	5455	3479	143.5	109.6	0.49	1.7	6.1	0.03	4.2	147.6	0.467	0.379	0.455	0.97	Liquefaction
CPT-1	42.51	10.8	161.4	0.92	125	5465	3484	119.6	91.1	0.58	1.8	8.2	0.08	11.1	130.7	0.467	0.288	0.345	0.74	Liquefaction
CPT-1	42.59	10.8	133.9	1.18	125	5475	3489	99.2	75.2	0.90	2.0	12.4	0.20	24.4	123.6	0.467	0.256	0.307	0.66	Liquefaction
CPT-1	42.67	10.8	83.7	1.5	125	5485	3494	62.0	46.3	1.85	2.3	24.0	0.51	63.6	125.6	0.468	0.264	0.317	0.68	Liquefaction
CPT-1	42.75	10.8	54.9	1.5	125	5495	3499	40.6	29.8	2.88	2.6	35.7	0.80	162.4	203.1	0.468	0.859	1.030	2.20	NonLiqfble.
CPT-1	42.84	10.8	37.3	1.4	125	5506	3504	27.6	19.7	4.05	2.8	48.4	0.80	110.3	137.8	0.468	0.324	0.388	0.83	NonLiqfble.
CPT-1	42.92	10.8	23.3	1.38	125	5516	3509	17.2	11.7	6.72	3.2	69.6	0.80	68.8	86.0	0.468	0.139	0.167	0.36	NonLiqfble.
CPT-1	43	10.8	18.8	1.24	125	5526	3514	13.9	9.1	7.73	3.3	79.2	0.80	55.5	69.4	0.468	0.111	0.133	0.28	NonLiqfble.
CPT-1	43.08	10.8	17.8	0.95	125	5536	3519	13.1	8.5	6.32	3.2	76.5	0.80	52.5	65.6	0.468	0.106	0.128	0.27	NonLiqfble.
CPT-1	43.16	10.8	19.7	0.76	125	5546	3524	14.5	9.6	4.49	3.1	66.5	0.80	58.1	72.6	0.469	0.116	0.139	0.30	NonLiqfble.
CPT-1																				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q _{ts}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{cr}	Δq _{ts}	(q _{ts}) _s	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	44.49	10.8	49.7	1.84	135	5718	3613	36.2	25.9	3.93	2.7	42.7	0.80	144.7	180.9	0.471	0.630	0.756	1.61	NonLiqfble.
CPT-1	44.57	10.8	38.1	1.95	135	5729	3619	27.7	19.5	5.53	2.9	54.2	0.80	110.8	138.6	0.471	0.327	0.393	0.83	NonLiqfble.
CPT-1	44.66	10.8	38.8	2.2	135	5741	3626	28.2	19.8	6.12	3.0	55.7	0.80	112.8	141.0	0.472	0.341	0.409	0.87	NonLiqfble.
CPT-1	44.74	10.8	44	2.38	135	5752	3631	31.9	22.6	5.79	2.9	51.9	0.80	127.8	159.7	0.472	0.459	0.551	1.17	NonLiqfble.
CPT-1	44.83	10.8	51.4	2.41	135	5764	3638	37.3	26.7	4.97	2.8	46.1	0.80	149.1	186.4	0.472	0.683	0.819	1.74	NonLiqfble.
CPT-1	44.91	10.8	69	2.4	135	5775	3644	50.0	36.3	3.63	2.6	35.9	0.80	200.1	250.1	0.472	1.534	1.841	3.90	NonLiqfble.
CPT-1	44.99	10.8	92.4	2.26	135	5786	3650	66.9	49.0	2.52	2.4	26.7	0.58	92.6	159.5	0.472	0.457	0.549	1.16	Low F.S.
CPT-1	45.08	10.8	114.6	1.83	135	5798	3656	82.9	61.1	1.64	2.2	19.4	0.38	51.8	134.8	0.472	0.308	0.369	0.78	Liquefaction
CPT-1	45.16	10.8	134.9	1.83	135	5809	3662	97.5	72.1	1.39	2.1	16.1	0.30	41.2	138.8	0.472	0.329	0.394	0.83	Liquefaction
CPT-1	45.24	10.8	152.6	2.07	135	5819	3668	110.2	81.6	1.38	2.1	14.9	0.26	39.5	149.8	0.472	0.393	0.471	1.00	Liquefaction
CPT-1	45.31	10.8	156.6	2.27	135	5829	3673	113.1	83.7	1.48	2.1	15.2	0.27	42.3	155.4	0.473	0.429	0.515	1.09	Low F.S.
CPT-1	45.39	10.8	159.7	2.47	125	5840	3679	115.2	85.2	1.58	2.1	15.6	0.28	45.4	160.6	0.473	0.465	0.558	1.18	Low F.S.
CPT-1	45.46	10.8	172.3	2.7	125	5848	3683	124.2	91.9	1.59	2.1	15.0	0.27	45.1	169.3	0.473	0.531	0.638	1.35	
CPT-1	45.55	10.8	180	2.88	125	5860	3689	129.7	96.0	1.63	2.1	14.8	0.26	45.7	175.4	0.473	0.582	0.698	1.48	
CPT-1	45.63	10.8	182.3	2.91	125	5870	3694	131.2	97.1	1.61	2.1	14.6	0.26	45.4	176.7	0.473	0.593	0.712	1.50	
CPT-1	45.71	10.8	185.9	2.95	125	5880	3699	133.7	98.9	1.62	2.1	14.4	0.25	44.9	178.6	0.473	0.610	0.732	1.55	
CPT-1	45.79	10.8	183	2.98	125	5890	3704	131.6	97.2	1.66	2.1	14.8	0.26	46.6	178.2	0.474	0.606	0.727	1.54	
CPT-1	45.87	10.8	189.4	3.04	125	5900	3709	136.1	100.5	1.63	2.1	14.4	0.25	45.4	181.4	0.474	0.636	0.763	1.61	
CPT-1	45.95	10.8	196.8	3.22	125	5910	3714	141.3	104.4	1.66	2.0	14.2	0.25	46.0	187.3	0.474	0.691	0.829	1.75	
CPT-1	46.02	10.8	210.8	3.64	125	5918	3718	151.3	111.8	1.75	2.0	14.1	0.24	48.3	199.6	0.474	0.819	0.983	2.07	
CPT-1	46.1	10.8	215.4	4.21	135	5928	3723	154.5	114.1	1.98	2.1	15.0	0.27	56.3	210.8	0.474	0.951	1.141	2.41	
CPT-1	46.18	10.8	214.5	4.7	135	5939	3729	153.7	113.4	2.22	2.1	16.2	0.30	65.2	218.9	0.474	1.055	1.266	2.67	
CPT-1	46.26	10.8	213.5	4.99	135	5950	3735	152.9	112.7	2.37	2.1	16.9	0.32	70.8	223.7	0.474	1.121	1.345	2.83	
CPT-1	46.34	10.8	202.9	5.33	135	5961	3741	145.2	106.8	2.67	2.2	18.6	0.36	82.6	227.8	0.475	1.179	1.415	2.98	
CPT-1	46.41	10.8	193.6	5.73	135	5970	3746	138.4	101.7	3.01	2.2	20.4	0.41	96.6	235.0	0.475	1.288	1.545	3.26	
CPT-1	46.49	10.8	192.2	5.87	135	5981	3751	137.3	100.8	3.10	2.3	20.9	0.42	100.8	238.1	0.475	1.335	1.602	3.37	
CPT-1	46.56	10.8	193.2	5.86	135	5990	3756	137.9	101.2	3.08	2.3	20.7	0.42	99.9	237.8	0.475	1.331	1.597	3.36	
CPT-1	46.64	10.8	186.9	5.75	135	6001	3762	133.3	97.7	3.13	2.3	21.3	0.43	102.3	235.6	0.475	1.296	1.556	3.28	
CPT-1	46.72	10.8	182.4	5.63	135	6012	3768	130.0	95.2	3.14	2.3	21.6	0.44	103.2	233.2	0.475	1.260	1.512	3.18	
CPT-1	46.79	10.8	184.9	5.54	135	6021	3773	131.7	96.4	3.05	2.3	21.1	0.43	99.2	230.9	0.475	1.226	1.471	3.09	
CPT-1	46.87	10.8	189.5	5.15	135	6032	3779	134.9	98.7	2.76	2.2	19.7	0.39	87.6	222.4	0.475	1.104	1.324	2.79	
CPT-1	46.94	10.8	195.2	4.37	135	6042	3784	138.8	101.5	2.27	2.2	17.4	0.33	68.7	207.6	0.475	0.912	1.094	2.30	
CPT-1	47.01	10.8	197.9	3.56	135	6051	3789	140.7	102.8	1.83	2.1	15.2	0.27	52.5	193.1	0.476	0.750	0.900	1.89	
CPT-1	47.09	10.8	192.5	2.7	135	6062	3795	136.7	99.8	1.43	2.0	13.3	0.22	38.9	175.6	0.476	0.584	0.700	1.47	
CPT-1	47.16	10.8	184.6	2	135	6071	3800	131.0	95.5	1.10	2.0	11.7	0.18	28.5	159.6	0.476	0.458	0.549	1.15	Low F.S.
CPT-1	47.24	10.8	170.1	1.44	135	6082	3806	120.6	87.8	0.86	1.9	10.8	0.15	21.9	142.5	0.476	0.349	0.419	0.88	Liquefaction
CPT-1	47.31	10.8	148.7	1.28	125	6092	3811	105.4	76.4	0.88	2.0	12.1	0.19	24.6	130.0	0.476	0.284	0.341	0.72	Liquefaction
CPT-1	47.38	10.8	124	1.42	125	6100	3815	87.8	63.4	1.17	2.1	16.1	0.30	36.8	124.7	0.476	0.260	0.312	0.66	Liquefaction
CPT-1	47.46	10.8	103.8	1.51	125	6110	3820	73.5	52.7	1.50	2.2	20.3	0.41	50.5	124.0	0.476	0.257	0.309	0.65	Liquefaction
CPT-1	47.53	10.8	102.8	1.59	115	6119	3825	72.7	52.1	1.59	2.3	21.0	0.43	54.1	126.8	0.476	0.270	0.324	0.68	Liquefaction
CPT-1	47.6	10.8	106.2	1.61	115	6127	3828	75.1	53.9	1.56	2.2	20.4	0.41	52.4	127.5	0.477	0.273	0.327	0.69	Liquefaction
CPT-1	47.68	10.8	100.5	1.63	115	6136	3833	71.0	50.8	1.67	2.3	21.8	0.45	57.5	128.6	0.477	0.278	0.333	0.70	Liquefaction
CPT-1	47.8	10.8	96.5	1.82	125	6150	3839	68.1	48.7	1.95	2.3	23.9	0.50	69.3	137.5	0.477	0.322	0.386	0.81	Liquefaction
CPT-1	47.97	10.8	92.5	2.04	125	6171	3850	65.2	46.4	2.28	2.4	26.3	0.57	85.6	150.9	0.477	0.399	0.479	1.00	Low F.S.
CPT-1	48.15	10.8	103.6	2.05	125	6194	3861	73.0	52.0	2.04	2.3	23.5	0.49	71.5	144.4	0.478	0.360	0.432	0.90	Liquefaction
CPT-1	48.3	10.8	120.8	1.92	125	6213	3870	85.0	60.8	1.63	2.2	19.4	0.38	53.2	138.1	0.478	0.325	0.390	0.82	Liquefaction
CPT-1	48.37	10.8	135.1	1.9	125	6221	3875	95.0	68.1	1.44	2.1	17.0	0.32	45.0	139.9	0.478	0.335	0.402	0.84	Liquefaction
CPT-1	48.44	10.8	153.8	1.76	125	6230	3879	108.0	77.7	1.17	2.0	14.0	0.24	34.2	142.2	0.478	0.347	0.417	0.87	Liquefaction
CPT-1	48.51	10.8	175.9	1.6	125	6239	3883	123.5	88.9	0.93	1.9	11.1	0.16	24.0	147.6	0.478	0.379	0.455	0.95	Liquefaction
CPT-1	48.56	10.8	201.1	1.57	125	6245	3886	141.1	101.8	0.79	1.8	9.0	0.11	17.0	158.1	0.479	0.448	0.537	1.12	Low F.S.
CPT-1	48.63	10.8	221.9	1.54	125	6254	3891	155.7	112.4	0.70	1.8	7.6	0.07	11.7	167.3	0.479	0.516	0.619	1.29	
CPT-1	48.7	10.8	237	1.49	125	6263	3895	166.1	120.0	0.64	1.7	6.6	0.04	7.6	173.7	0.479	0.568	0.681	1.42	
CPT-1	48.77	10.8	243.4	1.99	115	6271	3900	170.5	123.2	0.83	1.8	7.9	0.08	14.2	184.7	0.479	0.666	0.799	1.67	
CPT-1	48.84	10.8	247	2.4	115	6280	3903	173.0	124.9	0.98	1.8	8.8	0.10	19.7	192.7	0.479	0.745	0.894	1.87	
CPT-1	48.88	10.8	248.7	2.38	115	6284	3905	174.1	125.7	0.97	1.8	8.7	0.10	19.0	193.1	0.479	0.750	0.900	1.88	
CPT-1	48.91	10.8	258.7	2.36	115	6288	3907	181.1	130.8	0.92	1.8	8.1	0.08	16.4	197.5	0.479	0.796	0.955	1.99	
CPT-1	48.98	10.8	271.1	2.32	105	6296	3911	189.7	137.0	0.87	1.8	7.4	0.06	13.0	202.7	0.479	0.854	1.025	2.14	
CPT-1	49.05	10.8	315.3	2.29	105	6303	3914	220.5	159.5	0.73	1.7	5.5	0.01	3.2	223.8	0.480	1.122	1.346	2.81	
CPT-1	49.13	10.8	350.5	2.69	105	6311	3917	245.0	177.3	0.77	1.6	5.2	0.01	1.3	246.4	0.480	1.471	1.765	3.68	
CPT-1	49.29	10.8	372.8	2.87	115	6328	3924	260.4	188.3	0.78	1.6	4.9	0.00	0.0	260.4	0.480	1.722	2.066	4.30	
CPT-1	49.36	10.8	397.3	3.12	125	6336	3928	277.4	200.6	0.79	1.6	4.6	0.00	0.0	277.4	0.480	2.065	2.478	5.16	
CPT-1	49.43	10.8	392.6	3.22	125	6345	39													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	Δq_{tip}	(q_{tip}) _{0.5s}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	50.51	10.8	310.5	2.88	125	6484	4003	214.7	153.4	0.94	1.8	7.1	0.06	12.9	227.6	0.426	1.177	1.413	3.32	
CPT-1	50.58	10.8	312.5	3.63	125	6492	4008	216.0	154.3	1.17	1.8	8.5	0.09	22.4	238.4	0.426	1.339	1.607	3.78	
CPT-1	50.65	10.8	312.9	3.18	115	6501	4012	216.1	154.3	1.03	1.8	7.6	0.07	16.4	232.6	0.426	1.250	1.500	3.52	
CPT-1	50.72	10.8	316.3	2.68	115	6509	4016	218.4	155.8	0.86	1.7	6.5	0.04	9.1	227.5	0.426	1.176	1.411	3.31	
CPT-1	50.79	10.8	317.1	2.44	115	6517	4019	218.8	156.1	0.78	1.7	6.0	0.03	5.8	224.7	0.426	1.135	1.362	3.20	
CPT-1	50.86	10.8	303.6	2.51	115	6525	4023	209.4	149.2	0.84	1.7	6.6	0.04	9.6	219.0	0.426	1.057	1.269	2.98	
CPT-1	50.93	10.8	300.4	2.66	115	6533	4027	207.1	147.5	0.90	1.8	7.1	0.06	12.4	219.5	0.426	1.063	1.276	2.99	
CPT-1	51	10.8	294	2.65	115	6541	4030	202.6	144.2	0.91	1.8	7.4	0.06	13.6	216.3	0.426	1.021	1.225	2.87	
CPT-1	51.07	10.8	290.9	2.5	115	6549	4034	200.4	142.5	0.87	1.8	7.2	0.06	12.3	212.7	0.427	0.975	1.170	2.74	
CPT-1	51.14	10.8	279	2.54	115	6557	4038	192.1	136.5	0.92	1.8	7.8	0.07	15.5	207.6	0.427	0.912	1.094	2.56	
CPT-1	51.21	10.8	277.7	2.6	115	6565	4041	191.1	135.7	0.95	1.8	8.0	0.08	16.7	207.8	0.427	0.914	1.097	2.57	
CPT-1	51.28	10.8	283.8	2.77	115	6574	4045	195.2	138.6	0.99	1.8	8.1	0.08	17.7	213.0	0.427	0.978	1.174	2.75	
CPT-1	51.35	10.8	285.9	2.59	115	6582	4049	196.6	139.5	0.92	1.8	7.6	0.07	14.8	211.3	0.427	0.958	1.150	2.69	
CPT-1	51.41	10.8	295.2	2.54	115	6588	4052	202.9	144.0	0.87	1.8	7.1	0.06	12.1	215.0	0.427	1.004	1.205	2.82	
CPT-1	51.48	10.8	297.7	2.49	115	6597	4056	204.5	145.1	0.85	1.7	6.9	0.05	10.9	215.4	0.427	1.009	1.211	2.83	
CPT-1	51.55	10.8	289.9	2.74	115	6605	4059	199.1	141.1	0.96	1.8	7.8	0.07	16.0	215.1	0.428	1.006	1.207	2.82	
CPT-1	51.61	10.8	289.6	2.48	125	6611	4062	198.8	140.9	0.87	1.8	7.2	0.06	12.5	211.3	0.428	0.958	1.149	2.69	
CPT-1	51.68	10.8	286.8	2.02	125	6620	4067	196.8	139.4	0.71	1.7	6.2	0.03	6.6	203.4	0.428	0.863	1.035	2.42	
CPT-1	51.75	10.8	277.2	2.22	125	6629	4071	190.1	134.5	0.81	1.8	7.1	0.06	11.6	201.7	0.428	0.843	1.011	2.36	
CPT-1	51.82	10.8	276.7	2.79	115	6638	4076	189.6	134.1	1.02	1.8	8.6	0.09	19.9	209.5	0.428	0.935	1.123	2.62	
CPT-1	51.89	10.8	289.9	2.73	115	6646	4079	198.6	140.4	0.95	1.8	7.8	0.07	16.1	214.7	0.428	1.000	1.200	2.80	
CPT-1	51.96	10.8	302.1	2.8	115	6654	4083	206.9	146.3	0.94	1.8	7.4	0.07	14.4	221.2	0.428	1.087	1.305	3.05	
CPT-1	52.03	10.8	294.8	2.86	125	6662	4087	201.8	142.6	0.98	1.8	7.9	0.08	16.8	218.6	0.428	1.052	1.262	2.95	
CPT-1	52.1	10.8	276.8	2.93	125	6671	4091	189.4	133.6	1.07	1.8	8.9	0.10	22.0	211.3	0.428	0.958	1.149	2.68	
CPT-1	52.17	10.8	256.7	2.92	125	6679	4095	175.5	123.7	1.15	1.9	10.0	0.13	26.8	202.3	0.429	0.850	1.020	2.38	
CPT-1	52.4	10.8	183.7	2.94	125	6708	4110	125.4	87.7	1.63	2.1	15.6	0.28	49.6	175.0	0.429	0.578	0.694	1.62	
CPT-1	52.52	10.8	171.8	2.93	125	6723	4117	117.1	81.8	1.74	2.1	16.9	0.32	54.5	171.6	0.429	0.550	0.660	1.54	
CPT-1	52.67	10.8	165.8	3	125	6742	4127	112.9	78.7	1.85	2.2	17.8	0.34	58.9	171.9	0.429	0.552	0.662	1.54	
CPT-1	52.87	10.8	163.3	3.38	125	6767	4139	111.1	77.2	2.11	2.2	19.4	0.38	69.2	180.3	0.430	0.625	0.750	1.75	
CPT-1	53.03	10.8	166.6	3.59	125	6787	4149	113.2	78.6	2.20	2.2	19.6	0.39	72.3	185.5	0.430	0.674	0.808	1.88	
CPT-1	53.1	10.8	175.1	3.42	125	6796	4154	118.9	82.6	1.99	2.2	18.1	0.35	63.8	182.7	0.430	0.647	0.776	1.81	
CPT-1	53.17	10.8	190.7	3.19	135	6804	4158	129.4	90.1	1.70	2.1	15.8	0.29	52.2	181.5	0.430	0.637	0.764	1.78	
CPT-1	53.24	10.8	205.7	2.77	135	6814	4163	139.5	97.1	1.37	2.0	13.2	0.22	39.1	178.6	0.430	0.610	0.732	1.70	
CPT-1	53.31	10.8	225.1	2.57	135	6823	4168	152.6	106.3	1.16	1.9	11.2	0.16	30.1	182.7	0.430	0.647	0.776	1.80	
CPT-1	53.38	10.8	251	2.51	135	6833	4173	170.0	118.6	1.01	1.9	9.4	0.12	22.6	192.6	0.430	0.745	0.894	2.08	
CPT-1	53.45	10.8	267.5	2.44	135	6842	4178	181.1	126.4	0.92	1.8	8.3	0.09	17.8	198.9	0.430	0.811	0.974	2.26	
CPT-1	53.52	10.8	277	2.44	125	6852	4183	187.4	130.7	0.89	1.8	7.9	0.08	15.7	203.1	0.430	0.859	1.031	2.40	
CPT-1	53.59	10.8	282.3	2.24	125	6860	4188	190.9	133.1	0.80	1.8	7.2	0.06	11.7	202.6	0.430	0.853	1.024	2.38	
CPT-1	53.66	10.8	295.8	2.04	125	6869	4192	199.9	139.4	0.70	1.7	6.1	0.03	6.1	206.0	0.431	0.893	1.072	2.49	
CPT-1	53.73	10.8	306.3	1.99	135	6878	4197	206.9	144.3	0.66	1.7	5.6	0.02	3.4	210.2	0.431	0.944	1.133	2.63	
CPT-1	53.8	10.8	314.7	2	135	6887	4202	212.4	148.1	0.64	1.7	5.3	0.01	1.9	214.3	0.431	0.995	1.195	2.77	
CPT-1	53.98	10.8	316.8	2.24	135	6912	4215	213.5	148.6	0.71	1.7	5.8	0.02	4.9	218.4	0.431	1.049	1.258	2.92	
CPT-1	54.05	10.8	325.7	2.68	135	6921	4220	219.4	152.7	0.83	1.7	6.4	0.04	8.7	228.1	0.431	1.184	1.420	3.30	
CPT-1	54.12	10.8	338	2.68	135	6931	4225	227.5	158.3	0.80	1.7	6.0	0.03	6.5	234.1	0.431	1.272	1.527	3.54	
CPT-1	54.19	10.8	351.6	2.81	135	6940	4230	236.5	164.5	0.81	1.7	5.9	0.02	5.5	242.1	0.431	1.399	1.679	3.89	
CPT-1	54.27	10.8	343.4	2.76	135	6951	4236	230.9	160.4	0.81	1.7	6.0	0.03	6.6	237.4	0.431	1.325	1.590	3.69	
CPT-1	54.34	10.8	334.2	2.82	135	6960	4241	224.5	155.9	0.85	1.7	6.5	0.04	9.2	233.8	0.431	1.268	1.522	3.53	
CPT-1	54.41	10.8	330.5	2.7	135	6970	4246	221.9	154.0	0.83	1.7	6.4	0.04	8.5	230.4	0.431	1.218	1.461	3.39	
CPT-1	54.48	10.8	323.9	2.38	125	6979	4251	217.4	150.7	0.74	1.7	5.9	0.03	5.6	223.0	0.431	1.111	1.334	3.09	
CPT-1	54.55	10.8	316.1	2.33	135	6988	4255	212.0	146.9	0.75	1.7	6.1	0.03	6.6	218.6	0.431	1.051	1.261	2.92	
CPT-1	54.62	10.8	311.3	2.32	135	6997	4260	208.7	144.4	0.75	1.7	6.3	0.03	7.4	216.1	0.432	1.019	1.222	2.83	
CPT-1	54.7	10.8	296.9	2.27	135	7008	4266	198.9	137.5	0.77	1.7	6.7	0.05	9.7	208.6	0.432	0.924	1.109	2.57	
CPT-1	54.77	10.8	286.8	2.3	135	7018	4271	192.0	132.6	0.81	1.8	7.3	0.06	12.3	204.3	0.432	0.873	1.048	2.43	
CPT-1	54.84	10.8	281.6	2.18	135	7027	4276	188.4	130.0	0.78	1.8	7.2	0.06	11.7	200.1	0.432	0.825	0.990	2.29	
CPT-1	54.92	10.8	280.9	2.14	135	7038	4282	187.8	129.5	0.77	1.8	7.1	0.06	11.3	199.1	0.432	0.814	0.977	2.26	
CPT-1	54.99	10.8	279.5	2.08	135	7047	4287	186.8	128.7	0.75	1.7	7.0	0.05	10.8	197.5	0.432	0.797	0.956	2.21	
CPT-1	55.05	10.8	276.6	1.95	125	7055	4292	184.7	127.2	0.71	1.7	6.8	0.05	9.5	194.2	0.432	0.761	0.914	2.12	
CPT-1	55.12	10.8	279.8	2.04	125	7064	4296	186.8	128.6	0.74	1.7	6.9	0.05	10.2	197.0	0.432	0.791	0.949	2.20	
CPT-1	55.2	10.8	281.6	2.11	125	7074	4301	187.9	129.2	0.76	1.7	7.1	0.05	10.9	198.8	0.432	0.810	0.972	2.25	
CPT-1	55.27	10.8	284.1	2.11	115	7083	4305	189.4	130.3	0.75	1.7	6.9	0.05	10.4	199.8	0.432	0.822	0.987	2.28	
CPT-1	55.33	10.8	283.9	2.09	115	7090	4309	189.2	130.1	0.75	1.7	6.9	0.05	10.2	199.4	0.432	0.817	0.981	2.27	
CPT-1	55.41	10.8	274.3	2.07	115	7099	4313	182.8	125.5	0.76	1.8	7.3	0.06	11.9	194.7	0.433	0.766	0.919	2	

Project Name: Baypointe Parkway
 Project Number: 71233.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	Δq _{tip}	Q _{tip}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	56.45	10.8	221.4	3.76	115	7229	4378	146.4	99.5	1.73	2.1	15.0	0.27	53.1	199.5	0.434	0.818	0.982	2.26	
CPT-1	56.52	10.8	219.8	3.77	115	7237	4382	145.3	98.6	1.74	2.1	15.1	0.27	53.9	199.1	0.434	0.814	0.977	2.25	
CPT-1	56.58	10.8	216.4	3.67	115	7244	4385	143.0	97.0	1.72	2.1	15.2	0.27	53.4	196.4	0.434	0.784	0.941	2.17	
CPT-1	56.65	10.8	214.7	3.91	115	7252	4388	141.8	96.2	1.85	2.1	15.9	0.29	58.3	200.1	0.434	0.825	0.991	2.28	
CPT-1	56.73	10.8	213.6	4.15	125	7261	4393	141.0	95.6	1.98	2.1	16.6	0.31	63.2	204.2	0.434	0.872	1.046	2.41	
CPT-1	56.8	10.8	211.8	4.4	115	7270	4397	139.8	94.6	2.11	2.1	17.3	0.33	68.6	208.4	0.434	0.921	1.106	2.55	
CPT-1	56.87	10.8	211.1	4	115	7278	4401	139.2	94.2	1.93	2.1	16.5	0.31	61.5	200.8	0.435	0.833	0.999	2.30	
CPT-1	56.94	10.8	211.9	3.47	115	7286	4404	139.7	94.5	1.67	2.1	15.1	0.27	51.7	191.4	0.435	0.732	0.878	2.02	
CPT-1	57.01	10.8	221.2	3.28	125	7294	4408	145.8	98.7	1.51	2.0	13.9	0.24	45.2	190.9	0.435	0.727	0.873	2.01	
CPT-1	57.08	10.8	239	3	125	7303	4412	157.4	106.6	1.27	2.0	11.9	0.18	35.3	192.7	0.435	0.746	0.895	2.06	
CPT-1	57.14	10.8	254.4	2.73	115	7310	4416	167.5	113.5	1.09	1.9	10.2	0.14	27.1	194.6	0.435	0.765	0.918	2.11	
CPT-1	57.19	10.8	220.7	2.47	115	7316	4419	145.3	98.2	1.14	2.0	11.7	0.18	31.7	176.9	0.435	0.595	0.714	1.64	
CPT-1	57.25	10.8	271	2.34	115	7323	4422	178.3	120.9	0.88	1.8	8.3	0.09	17.4	195.8	0.435	0.778	0.933	2.14	
CPT-1	57.33	10.8	275.9	2.3	115	7332	4426	181.4	123.0	0.84	1.8	8.0	0.08	15.8	197.3	0.435	0.794	0.953	2.19	
CPT-1	57.39	10.8	273.2	2.17	115	7339	4429	179.6	121.7	0.81	1.8	7.8	0.07	14.5	194.1	0.435	0.760	0.912	2.10	
CPT-1	57.47	10.8	257.9	2.2	115	7348	4434	169.5	114.6	0.87	1.8	8.7	0.10	18.3	187.8	0.436	0.696	0.835	1.92	
CPT-1	57.54	10.8	259	2.13	115	7356	4437	170.1	115.0	0.83	1.8	8.4	0.09	17.0	187.2	0.436	0.690	0.828	1.90	
CPT-1	57.61	10.8	249.6	2.37	115	7364	4441	163.9	110.7	0.96	1.9	9.6	0.12	22.9	186.8	0.436	0.686	0.823	1.89	
CPT-1	57.68	10.8	254.9	2.53	125	7372	4445	167.3	113.0	1.01	1.9	9.7	0.13	24.1	191.4	0.436	0.732	0.879	2.02	
CPT-1	57.75	10.8	244.4	2.4	125	7381	4449	160.3	108.2	1.00	1.9	10.0	0.13	24.7	185.0	0.436	0.669	0.803	1.84	
CPT-1	57.82	10.8	250.3	2.57	125	7390	4453	164.1	110.7	1.04	1.9	10.1	0.14	25.9	190.0	0.436	0.718	0.862	1.98	
CPT-1	57.89	10.8	246.6	2.28	125	7399	4458	161.6	108.9	0.94	1.9	9.5	0.12	22.3	183.9	0.436	0.659	0.790	1.81	
CPT-1	57.96	10.8	255.5	2.03	125	7407	4462	167.4	112.8	0.81	1.8	8.4	0.09	16.4	183.8	0.436	0.657	0.789	1.81	
CPT-1	58.04	10.8	252.2	1.78	125	7417	4467	165.1	111.2	0.72	1.8	7.8	0.07	13.3	178.4	0.436	0.608	0.729	1.67	
CPT-1	58.1	10.8	239.2	1.64	115	7425	4471	156.5	105.3	0.70	1.8	8.0	0.08	13.8	170.3	0.436	0.540	0.647	1.48	
CPT-1	58.17	10.8	217.4	1.84	115	7433	4475	142.2	95.5	0.77	1.9	9.3	0.12	18.6	160.8	0.436	0.467	0.560	1.28	
CPT-1	58.25	10.8	211.2	1.49	115	7442	4479	138.1	92.6	0.72	1.8	9.2	0.11	17.4	155.5	0.437	0.430	0.516	1.18	Low F.S.
CPT-1	58.32	10.8	195.6	1.5	125	7450	4482	127.8	85.6	0.78	1.9	10.4	0.14	21.3	149.1	0.437	0.388	0.466	1.07	Low F.S.
CPT-1	58.39	10.8	179.5	1.72	125	7459	4487	117.2	78.3	0.98	2.0	12.6	0.20	29.9	147.2	0.437	0.376	0.452	1.03	Low F.S.
CPT-1	58.46	10.8	142.8	2.26	135	7468	4491	93.2	61.9	1.63	2.2	19.2	0.38	56.8	150.0	0.437	0.394	0.473	1.08	Low F.S.
CPT-1	58.54	10.8	109.2	2.82	135	7479	4497	71.2	46.9	2.67	2.4	28.0	0.62	113.9	185.1	0.437	0.670	0.804	1.84	
CPT-1	58.62	10.8	77.7	2.61	135	7489	4503	50.7	32.8	3.53	2.6	37.1	0.80	202.7	253.3	0.437	1.592	1.910	4.37	NonLiqfble.
CPT-1	58.69	10.8	53.2	2.35	135	7499	4508	34.7	21.9	4.75	2.9	49.0	0.80	138.7	173.3	0.437	0.564	0.677	1.55	NonLiqfble.
CPT-1	58.77	10.8	37.4	2.08	125	7510	4514	24.4	14.9	6.18	3.1	62.1	0.80	97.4	121.8	0.437	0.248	0.298	0.68	NonLiqfble.
CPT-1	58.84	10.8	25.1	1.91	125	7518	4518	16.3	9.4	8.95	3.3	81.7	0.80	65.4	81.7	0.437	0.131	0.157	0.36	NonLiqfble.
CPT-1	58.92	10.8	22.7	1.72	125	7528	4523	14.8	8.4	9.08	3.4	85.5	0.80	59.1	73.8	0.437	0.117	0.141	0.32	NonLiqfble.
CPT-1	59	10.8	22.2	1.38	125	7538	4528	14.4	8.1	7.49	3.3	81.7	0.80	57.7	72.2	0.437	0.115	0.138	0.32	NonLiqfble.
CPT-1	59.08	10.8	20.7	1.3	125	7548	4533	13.5	7.5	7.68	3.3	84.7	0.80	53.8	67.3	0.438	0.108	0.130	0.30	NonLiqfble.
CPT-1	59.19	10.8	21.1	1.2	125	7562	4540	13.7	7.6	6.93	3.3	81.7	0.80	54.8	68.5	0.438	0.110	0.132	0.30	NonLiqfble.
CPT-1	59.28	10.8	21	1.16	135	7573	4546	13.6	7.6	6.74	3.3	81.3	0.80	54.5	68.1	0.438	0.109	0.131	0.30	NonLiqfble.
CPT-1	59.49	10.8	20.7	1.11	135	7602	4561	13.4	7.4	6.57	3.3	81.4	0.80	53.6	67.1	0.438	0.108	0.130	0.30	NonLiqfble.
CPT-1	59.7	10.8	19.4	1.07	135	7630	4576	12.5	6.8	6.87	3.3	84.8	0.80	50.2	62.7	0.438	0.103	0.124	0.28	NonLiqfble.
CPT-1	59.78	10.8	18.1	1.2	135	7641	4582	11.7	6.2	8.40	3.4	92.3	0.80	46.8	58.5	0.438	0.099	0.118	0.27	NonLiqfble.
CPT-1	59.86	10.8	25.7	1.72	135	7652	4588	16.6	9.5	7.86	3.3	78.4	0.80	66.4	83.0	0.438	0.133	0.160	0.36	NonLiqfble.
CPT-1	59.94	10.8	57.2	2.58	135	7662	4594	36.9	23.2	4.83	2.8	48.2	0.80	147.7	184.6	0.438	0.665	0.798	1.82	NonLiqfble.
CPT-1	60.02	10.8	100.6	3.71	135	7673	4599	64.9	42.1	3.83	2.6	34.4	0.79	238.3	303.2	0.386	2.673	3.207	8.31	
CPT-1	60.1	10.8	120.4	4.1	135	7684	4605	77.6	50.6	3.52	2.5	30.6	0.68	167.1	244.8	0.386	1.444	1.733	4.49	
CPT-1	60.18	10.8	107.8	4.14	125	7695	4611	69.5	45.1	3.98	2.6	34.0	0.77	237.2	306.7	0.386	2.763	3.316	8.59	
CPT-1	60.26	10.8	95.1	4.55	125	7705	4616	61.2	39.5	4.99	2.7	39.4	0.80	245.0	306.2	0.386	2.750	3.301	8.55	NonLiqfble.
CPT-1	60.34	10.8	91.9	4.68	125	7715	4621	59.2	38.1	5.32	2.7	41.1	0.80	236.6	295.8	0.386	2.486	2.983	7.73	NonLiqfble.
CPT-1	60.41	10.8	130.1	4.27	125	7724	4625	83.7	54.6	3.38	2.5	29.0	0.64	149.9	233.6	0.386	1.265	1.518	3.93	
CPT-1	60.49	10.8	112	3.83	115	7734	4630	72.0	46.7	3.54	2.5	31.8	0.72	180.9	253.0	0.386	1.585	1.903	4.93	
CPT-1	60.57	10.8	116.6	2.49	115	7743	4635	74.9	48.6	2.21	2.4	25.3	0.54	88.5	163.5	0.386	0.486	0.583	1.51	
CPT-1	60.65	10.8	197.2	3.07	115	7752	4639	126.7	83.3	1.59	2.1	15.9	0.29	51.8	178.5	0.386	0.609	0.731	1.89	
CPT-1	60.72	10.8	236.3	2.94	115	7760	4642	151.7	100.1	1.26	2.0	12.3	0.20	36.9	188.7	0.387	0.704	0.845	2.19	
CPT-1	60.79	10.8	255.3	2.79	125	7768	4646	163.9	108.2	1.11	1.9	10.7	0.15	29.6	193.5	0.387	0.753	0.904	2.34	
CPT-1	60.83	10.8	259.7	2.73	125	7773	4649	166.7	110.0	1.07	1.9	10.3	0.14	27.6	194.3	0.387	0.762	0.914	2.36	
CPT-1	60.9	10.8	264	2.61	125	7782	4653	169.3	111.8	1.00	1.9	9.8	0.13	24.8	194.1	0.387	0.760	0.913	2.36	
CPT-1	60.98	10.8	266.9	2.62	125	7792	4658	171.1	112.9	1.00	1.9	9.7	0.12	24.3	195.4	0.387	0.774	0.929	2.40	
CPT-1	61.05	10.8	277	2.9	135	7801	4662	177.5	117.1	1.06	1.9	9.8	0.13	26.1	203.6	0.387	0.865	1.038	2.68	
CPT-1	61.13	10.8	292	2.7	135	7811	4668	187.0	123.4	0.94	1.8	8.6	0.10	19.9	206.9	0.387	0.904	1.085	2.80	
CPT-1	61.21	10.8	300.1	3.1	135	7822	4674	192.1	126.7	1.05	1.8	9.1	0.1							

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K_{CPT}	$\Delta q_{0.5}$	$(q_{tip})_{0.5}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	62.31	10.8	292	2.62	125	7957	4741	185.6	121.5	0.91	1.8	8.5	0.09	19.3	204.9	0.388	0.880	1.056	2.72	
CPT-1	62.38	10.8	288.2	2.41	125	7966	4745	183.1	119.7	0.85	1.8	8.2	0.09	17.2	200.2	0.388	0.827	0.992	2.56	
CPT-1	62.45	10.8	281.1	2.48	115	7975	4749	178.5	116.6	0.89	1.8	8.7	0.10	19.7	198.2	0.388	0.804	0.965	2.49	
CPT-1	62.52	10.8	272.3	2.82	115	7983	4753	172.8	112.8	1.05	1.9	10.0	0.13	26.7	199.6	0.388	0.819	0.983	2.53	
CPT-1	62.59	10.8	267.5	3.38	115	7991	4757	169.7	110.7	1.28	1.9	11.6	0.18	36.3	206.0	0.388	0.893	1.071	2.76	
CPT-1	62.66	10.8	260.9	2.93	105	7999	4761	165.4	107.9	1.14	1.9	10.9	0.16	31.2	196.7	0.389	0.787	0.945	2.43	
CPT-1	62.73	10.8	258.3	2.86	105	8006	4764	163.7	106.7	1.12	1.9	10.9	0.16	30.8	194.6	0.389	0.765	0.918	2.36	
CPT-1	62.8	10.8	249.4	2.78	115	8014	4767	158.1	102.9	1.13	1.9	11.3	0.17	31.8	189.9	0.389	0.717	0.860	2.21	
CPT-1	62.87	10.8	251.7	2.53	125	8022	4770	159.5	103.8	1.02	1.9	10.5	0.15	27.4	186.8	0.389	0.686	0.824	2.12	
CPT-1	62.94	10.8	252	2.52	115	8031	4775	159.6	103.8	1.02	1.9	10.4	0.15	27.2	186.7	0.389	0.685	0.823	2.12	
CPT-1	63.01	10.8	247.8	2.53	115	8039	4778	156.8	102.0	1.04	1.9	10.7	0.15	28.4	185.2	0.389	0.671	0.805	2.07	
CPT-1	63.08	10.8	250.1	2.13	115	8047	4782	158.2	102.9	0.87	1.9	9.5	0.12	21.5	179.7	0.389	0.620	0.744	1.91	
CPT-1	63.15	10.8	254.5	1.91	115	8055	4786	161.0	104.6	0.76	1.8	8.6	0.10	17.1	178.0	0.389	0.605	0.726	1.86	
CPT-1	63.22	10.8	262.1	1.82	115	8063	4789	165.7	107.7	0.71	1.8	7.9	0.08	14.1	179.8	0.389	0.621	0.745	1.91	
CPT-1	63.29	10.8	261.7	1.84	105	8071	4793	165.4	107.5	0.71	1.8	8.0	0.08	14.5	179.9	0.389	0.621	0.746	1.92	
CPT-1	63.36	10.8	263.1	1.82	105	8078	4796	166.2	108.0	0.70	1.8	7.9	0.08	13.9	180.2	0.389	0.624	0.749	1.92	
CPT-1	63.43	10.8	264.4	1.92	115	8086	4799	167.0	108.5	0.74	1.8	8.1	0.08	15.2	182.2	0.390	0.643	0.771	1.98	
CPT-1	63.5	10.8	263.6	1.94	125	8094	4803	166.4	108.0	0.75	1.8	8.2	0.09	15.7	182.2	0.390	0.642	0.771	1.98	
CPT-1	63.56	10.8	265.2	2	135	8101	4806	167.4	108.6	0.77	1.8	8.3	0.09	16.4	183.7	0.390	0.657	0.788	2.02	
CPT-1	63.63	10.8	268.5	1.94	135	8111	4811	169.4	109.9	0.73	1.8	8.0	0.08	14.8	184.1	0.390	0.661	0.793	2.03	
CPT-1	63.71	10.8	267.9	1.9	135	8121	4817	168.9	109.5	0.72	1.8	7.9	0.08	14.3	183.2	0.390	0.652	0.782	2.01	
CPT-1	63.78	10.8	266.5	1.83	135	8131	4822	167.9	108.8	0.70	1.8	7.8	0.07	13.6	181.5	0.390	0.636	0.763	1.96	
CPT-1	63.85	10.8	257.6	1.81	135	8140	4827	162.2	105.0	0.71	1.8	8.2	0.09	15.1	177.3	0.390	0.599	0.718	1.84	
CPT-1	63.92	10.8	232.8	1.25	135	8150	4833	146.5	94.6	0.55	1.8	7.6	0.07	10.9	157.4	0.390	0.443	0.531	1.36	
CPT-1	63.99	10.8	214.2	1.29	125	8159	4838	134.7	86.8	0.61	1.8	8.8	0.10	15.4	150.2	0.390	0.395	0.474	1.22	
CPT-1	64.06	10.8	200.2	1.19	125	8168	4842	125.9	81.0	0.61	1.9	9.4	0.12	16.6	142.5	0.390	0.349	0.419	1.07	Low F.S.
CPT-1	64.13	10.8	181.9	1.39	125	8177	4846	114.3	73.3	0.78	2.0	11.7	0.18	24.9	139.3	0.390	0.331	0.397	1.02	Low F.S.
CPT-1	64.19	10.8	144.4	1.59	125	8184	4850	90.7	57.8	1.13	2.1	16.8	0.31	41.5	132.2	0.390	0.295	0.354	0.91	Liquefaction
CPT-1	64.26	10.8	156	1.6	125	8193	4854	98.0	62.6	1.05	2.1	15.3	0.28	37.4	135.4	0.390	0.311	0.373	0.96	Liquefaction
CPT-1	64.33	10.8	155.3	1.65	125	8202	4859	97.5	62.2	1.09	2.1	15.7	0.29	38.9	136.4	0.390	0.316	0.379	0.97	Liquefaction
CPT-1	64.41	10.8	167.7	1.68	125	8212	4864	105.2	67.2	1.03	2.1	14.4	0.25	35.4	140.6	0.390	0.338	0.406	1.04	Low F.S.
CPT-1	64.48	10.8	176	2.21	125	8220	4868	110.4	70.6	1.29	2.1	15.7	0.29	44.2	154.5	0.390	0.423	0.508	1.30	
CPT-1	64.55	10.8	195.9	2.33	135	8229	4873	122.8	78.7	1.21	2.0	14.2	0.25	39.9	162.7	0.391	0.480	0.576	1.48	
CPT-1	64.63	10.8	208.9	2.39	135	8240	4878	130.9	83.9	1.17	2.0	13.3	0.22	37.1	167.9	0.391	0.521	0.625	1.60	
CPT-1	64.7	10.8	217.5	2.24	135	8249	4884	136.2	87.3	1.05	2.0	12.1	0.19	32.0	168.2	0.391	0.522	0.627	1.61	
CPT-1	64.77	10.8	221.6	2.17	135	8259	4889	138.7	88.9	1.00	1.9	11.6	0.18	29.7	168.4	0.391	0.524	0.629	1.61	
CPT-1	64.84	10.8	231.1	2.24	135	8268	4894	144.5	92.7	0.99	1.9	11.2	0.17	28.6	173.1	0.391	0.562	0.675	1.73	
CPT-1	64.91	10.8	243.6	2.08	135	8278	4899	152.3	97.7	0.87	1.9	9.9	0.13	23.0	175.3	0.391	0.581	0.697	1.78	
CPT-1	64.99	10.8	259.8	2.03	135	8289	4905	162.3	104.2	0.79	1.8	8.9	0.10	18.6	180.9	0.391	0.631	0.757	1.94	
CPT-1	65.06	10.8	266.1	1.85	135	8298	4910	166.2	106.7	0.71	1.8	8.0	0.08	14.5	180.7	0.391	0.629	0.755	1.93	
CPT-1	65.13	10.8	267.1	1.84	135	8307	4915	166.7	107.0	0.62	1.8	7.3	0.06	11.1	177.8	0.391	0.603	0.723	1.85	
CPT-1	65.2	10.8	268.5	1.76	135	8317	4920	167.5	107.4	0.67	1.8	7.6	0.07	12.7	180.2	0.391	0.624	0.749	1.92	
CPT-1	65.27	10.8	273.4	1.84	135	8326	4925	170.5	109.3	0.68	1.8	7.7	0.07	13.0	183.5	0.391	0.654	0.785	2.01	
CPT-1	65.35	10.8	277.1	1.86	135	8337	4931	172.7	110.7	0.68	1.8	7.6	0.07	12.6	185.3	0.391	0.672	0.806	2.06	
CPT-1	65.42	10.8	277.8	2.14	135	8347	4936	173.0	110.8	0.78	1.8	8.3	0.09	16.7	189.8	0.391	0.715	0.859	2.20	
CPT-1	65.5	10.8	271	2.48	135	8357	4942	168.7	107.9	0.93	1.9	9.6	0.12	23.3	192.0	0.391	0.738	0.886	2.27	
CPT-1	65.57	10.8	285.2	2.78	135	8367	4947	177.4	113.6	0.99	1.9	9.6	0.12	24.6	202.1	0.391	0.847	1.017	2.60	
CPT-1	65.64	10.8	297.7	3	135	8376	4952	185.1	118.5	1.02	1.9	9.5	0.12	25.0	210.1	0.391	0.943	1.132	2.89	
CPT-1	65.71	10.8	311.8	3.17	135	8386	4957	193.8	124.1	1.03	1.8	9.2	0.11	24.3	218.1	0.391	1.045	1.254	3.20	
CPT-1	65.79	10.8	302.1	4.54	135	8397	4963	187.6	120.0	1.52	2.0	12.3	0.19	45.4	233.0	0.391	1.257	1.508	3.85	
CPT-1	65.86	10.8	309.3	4.22	135	8406	4968	192.0	122.8	1.38	1.9	11.3	0.17	39.2	231.2	0.391	1.229	1.475	3.77	
CPT-1	65.93	10.8	311.8	4.13	135	8415	4973	193.5	123.7	1.34	1.9	11.1	0.16	37.4	230.9	0.391	1.224	1.469	3.75	
CPT-1	66.01	10.8	311.3	4.07	135	8426	4979	193.0	123.3	1.33	1.9	11.0	0.16	36.8	229.8	0.391	1.208	1.450	3.71	
CPT-1	66.08	10.8	294.3	4.09	135	8436	4984	182.4	116.4	1.41	2.0	11.9	0.18	41.4	223.8	0.391	1.122	1.346	3.44	
CPT-1	66.15	10.8	309.6	4.15	135	8445	4989	191.8	122.4	1.36	1.9	11.2	0.17	38.3	230.1	0.391	1.213	1.456	3.72	
CPT-1	66.22	10.8	309	2.95	135	8455	4994	191.3	122.0	0.97	1.8	8.9	0.10	22.2	213.5	0.391	0.985	1.182	3.02	
CPT-1	66.29	10.8	308.5	2.65	135	8464	4999	190.9	121.7	0.87	1.8	8.3	0.09	18.2	209.1	0.392	0.930	1.116	2.85	
CPT-1	66.36	10.8	309.4	2.47	135	8474	5004	191.4	121.9	0.81	1.8	7.8	0.08	15.6	206.9	0.392	0.904	1.085	2.77	
CPT-1	66.44	10.8	308	2.1	135	8484	5010	190.4	121.2	0.69	1.7	7.0	0.05	10.7	201.1	0.392	0.836	1.003	2.56	
CPT-1	66.51	10.8	305.8	1.82	135	8494	5015	188.9	120.2	0.60	1.7	6.4	0.04	7.1	196.1	0.392	0.781	0.937	2.39	
CPT-1	66.59	10.8	305.5	1.99	135	8505	5021	188.6	120.0	0.66	1.7	6.8	0.05	9.7	198.3	0.392	0.805	0.966	2.47	
CPT-1	66.66	10.8	294.5	2.2	135	8514	5026	181.8	115.5	0.76	1.8	7.8	0.08	14.9						

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{ns}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{cor}	Δq _{ns}	(q _{ns})s	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	67.78	10.8	204.2	2.4	125	8664	5106	125.0	78.3	1.20	2.0	14.1	0.24	40.4	165.4	0.392	0.501	0.601	1.53	
CPT-1	67.85	10.8	208.1	1.83	125	8672	5110	127.4	79.7	0.90	2.0	11.9	0.18	28.6	155.9	0.392	0.433	0.519	1.32	
CPT-1	67.92	10.8	231	1.61	135	8681	5114	141.3	88.6	0.71	1.9	9.5	0.12	19.3	160.6	0.392	0.465	0.558	1.42	
CPT-1	67.99	10.8	250.1	1.63	135	8691	5119	152.9	96.0	0.66	1.8	8.5	0.09	15.6	168.6	0.393	0.525	0.631	1.61	
CPT-1	68.07	10.8	261	1.7	135	8701	5125	159.5	100.1	0.66	1.8	8.1	0.08	14.6	174.1	0.393	0.571	0.685	1.75	
CPT-1	68.13	10.8	276.2	1.9	135	8710	5130	168.7	105.9	0.70	1.8	8.0	0.08	14.7	183.5	0.393	0.654	0.785	2.00	
CPT-1	68.21	10.8	269.5	1.82	135	8720	5135	164.5	103.2	0.69	1.8	8.1	0.08	14.9	179.4	0.393	0.617	0.741	1.89	
CPT-1	68.28	10.8	258.4	1.83	135	8730	5141	157.7	98.8	0.72	1.8	8.7	0.10	17.3	175.0	0.393	0.578	0.694	1.77	
CPT-1	68.35	10.8	255.6	1.63	135	8739	5146	155.9	97.6	0.65	1.8	8.2	0.09	14.7	170.6	0.393	0.542	0.650	1.66	
CPT-1	68.43	10.8	238.4	1.6	135	8750	5151	145.3	90.8	0.68	1.8	9.1	0.11	17.7	163.1	0.393	0.483	0.580	1.48	
CPT-1	68.5	10.8	227.9	1.49	135	8760	5157	138.9	86.7	0.67	1.9	9.3	0.12	18.1	156.9	0.393	0.439	0.527	1.34	
CPT-1	68.58	10.8	224.5	1.51	125	8770	5162	136.7	85.2	0.69	1.9	9.6	0.12	19.2	155.9	0.393	0.432	0.519	1.32	
CPT-1	68.65	10.8	228.2	1.62	125	8779	5167	138.9	86.6	0.72	1.9	9.8	0.13	20.4	159.3	0.393	0.456	0.547	1.39	
CPT-1	68.72	10.8	249.3	1.71	115	8788	5171	151.7	94.7	0.70	1.8	8.9	0.10	17.4	169.1	0.393	0.530	0.636	1.62	
CPT-1	68.8	10.8	268.8	1.64	115	8797	5175	163.5	102.1	0.62	1.8	7.6	0.07	12.4	175.9	0.393	0.586	0.704	1.79	
CPT-1	68.87	10.8	283.2	1.81	115	8805	5179	172.2	107.6	0.65	1.8	7.5	0.07	12.3	184.5	0.393	0.664	0.797	2.03	
CPT-1	68.94	10.8	292.3	1.96	125	8813	5183	177.7	111.1	0.68	1.8	7.5	0.07	12.8	190.5	0.393	0.723	0.867	2.21	
CPT-1	69.01	10.8	294.3	2.04	125	8822	5187	178.8	111.7	0.70	1.8	7.7	0.07	13.7	192.4	0.393	0.743	0.891	2.27	
CPT-1	69.09	10.8	299.9	2.49	125	8832	5192	182.1	113.8	0.84	1.8	8.6	0.09	19.1	201.2	0.393	0.837	1.005	2.55	
CPT-1	69.16	10.8	307.4	2.19	125	8841	5196	186.6	116.6	0.72	1.8	7.5	0.07	13.3	199.9	0.393	0.823	0.988	2.51	
CPT-1	69.23	10.8	310.1	2.21	125	8849	5201	188.1	117.5	0.72	1.8	7.4	0.07	13.1	201.3	0.393	0.838	1.006	2.56	
CPT-1	69.31	10.8	318	2.22	115	8859	5206	192.8	120.4	0.71	1.8	7.2	0.06	11.8	204.6	0.394	0.877	1.052	2.67	
CPT-1	69.38	10.8	316.3	2.16	125	8867	5210	191.7	119.7	0.69	1.7	7.1	0.06	11.3	203.1	0.394	0.859	1.030	2.62	
CPT-1	69.45	10.8	314.9	2.28	125	8876	5214	190.8	119.0	0.73	1.8	7.4	0.07	13.3	204.1	0.394	0.871	1.045	2.65	
CPT-1	69.52	10.8	317.7	2.28	125	8885	5218	192.4	120.0	0.73	1.8	7.3	0.06	12.8	205.2	0.394	0.884	1.060	2.69	
CPT-1	69.59	10.8	312.2	1.91	125	8894	5223	189.0	117.8	0.62	1.7	6.6	0.04	8.6	197.6	0.394	0.798	0.958	2.43	
CPT-1	69.66	10.8	298	1.69	125	8902	5227	180.3	112.3	0.58	1.7	6.6	0.04	8.0	188.4	0.394	0.702	0.842	2.14	
CPT-1	69.73	10.8	297.1	1.59	115	8911	5231	179.7	111.8	0.54	1.7	6.4	0.04	6.7	186.5	0.394	0.683	0.820	2.08	
CPT-1	69.81	10.8	299	1.38	115	8920	5236	180.8	112.5	0.47	1.7	5.7	0.02	3.3	184.1	0.394	0.660	0.792	2.01	
CPT-1	69.88	10.8	282.4	1.34	115	8928	5239	170.7	106.1	0.48	1.7	6.2	0.03	5.6	176.3	0.394	0.589	0.707	1.80	
CPT-1	69.95	10.8	249.5	1.27	115	8936	5243	150.8	93.4	0.52	1.8	7.4	0.06	10.5	161.2	0.394	0.470	0.564	1.43	
CPT-1	70.03	10.8	207.6	1.51	115	8946	5247	125.4	77.4	0.74	1.9	10.9	0.16	23.5	148.9	0.352	0.387	0.464	1.32	
CPT-1	70.1	10.8	154.5	2.27	115	8954	5251	93.3	57.1	1.51	2.2	19.4	0.38	58.4	151.6	0.352	0.404	0.485	1.38	
CPT-1	70.18	10.8	95	2.54	115	8963	5255	57.3	34.4	2.81	2.6	33.1	0.75	172.8	230.1	0.353	1.213	1.456	4.13	
CPT-1	70.26	10.8	73.9	2.46	125	8972	5259	44.6	26.4	3.54	2.7	40.8	0.80	178.3	222.9	0.353	1.110	1.332	3.78	NonLiqfble
CPT-1	70.34	10.8	57.1	2.29	125	8982	5264	34.4	20.0	4.35	2.9	49.3	0.80	137.7	172.2	0.353	0.555	0.666	1.89	NonLiqfble
CPT-1	70.42	10.8	38.2	2.26	125	8992	5269	21.8	12.0	7.13	3.2	70.2	0.80	87.3	109.1	0.353	0.201	0.241	0.68	NonLiqfble
CPT-1	70.5	10.8	31.9	1.97	125	9002	5274	19.2	10.4	7.19	3.2	74.1	0.80	76.9	96.1	0.353	0.163	0.195	0.55	NonLiqfble
CPT-1	70.57	10.8	30.7	1.55	125	9011	5279	18.5	9.9	5.92	3.2	71.1	0.80	74.0	92.4	0.353	0.153	0.184	0.52	NonLiqfble
CPT-1	70.65	10.8	30	1.29	125	9021	5284	18.1	9.6	5.06	3.1	68.7	0.80	72.2	90.3	0.353	0.148	0.178	0.50	NonLiqfble
CPT-1	70.72	10.8	28.4	1.21	125	9030	5288	17.1	9.0	5.07	3.2	70.4	0.80	68.4	85.4	0.353	0.138	0.166	0.47	NonLiqfble
CPT-1	70.79	10.8	21	1.19	135	9038	5292	12.6	6.2	7.22	3.4	88.7	0.80	50.5	63.2	0.353	0.103	0.124	0.35	NonLiqfble
CPT-1	70.89	10.8	23.6	1.17	125	9052	5300	14.2	7.2	6.13	3.3	80.7	0.80	56.7	70.9	0.353	0.113	0.136	0.38	NonLiqfble
CPT-1	70.97	10.8	23.1	1.15	125	9062	5305	13.9	7.0	6.19	3.3	81.7	0.80	55.5	69.4	0.353	0.111	0.133	0.38	NonLiqfble
CPT-1	71.04	10.8	22.8	1.11	125	9071	5309	13.7	6.9	6.08	3.3	81.8	0.80	54.8	68.5	0.353	0.110	0.132	0.37	NonLiqfble
CPT-1	71.12	10.8	22.4	1.03	125	9081	5314	13.4	6.7	5.77	3.3	81.3	0.80	53.8	67.2	0.353	0.108	0.130	0.37	NonLiqfble
CPT-1	71.2	10.8	21.5	0.97	125	9091	5319	12.9	6.4	5.72	3.3	82.7	0.80	51.6	64.5	0.353	0.105	0.126	0.36	NonLiqfble
CPT-1	71.28	10.8	20.7	0.92	125	9101	5324	12.4	6.1	5.70	3.3	84.1	0.80	49.7	62.1	0.353	0.102	0.123	0.35	NonLiqfble
CPT-1	71.36	10.8	19.5	0.89	125	9111	5329	11.7	5.6	5.96	3.4	87.4	0.80	46.7	58.4	0.353	0.099	0.118	0.33	NonLiqfble
CPT-1	71.43	10.8	18.2	0.88	125	9119	5334	10.9	5.1	6.45	3.4	92.1	0.80	43.6	54.5	0.353	0.095	0.114	0.32	NonLiqfble
CPT-1	71.51	10.8	18.3	0.85	125	9129	5339	11.0	5.1	6.19	3.4	91.0	0.80	43.8	54.8	0.353	0.095	0.114	0.32	NonLiqfble
CPT-1	71.6	10.8	17.5	0.81	125	9141	5344	10.5	4.8	6.27	3.4	93.2	0.80	41.9	52.4	0.354	0.093	0.112	0.32	NonLiqfble
CPT-1	71.78	10.8	17.1	0.76	125	9163	5355	10.2	4.7	6.07	3.4	93.6	0.80	40.9	51.1	0.354	0.092	0.111	0.31	NonLiqfble
CPT-1	71.84	10.8	16.2	0.75	125	9171	5359	9.7	4.3	6.46	3.5	97.6	0.80	38.7	48.4	0.354	0.091	0.109	0.31	NonLiqfble
CPT-1	71.92	10.8	15.7	0.78	125	9181	5364	9.4	4.1	7.02	3.5	101.1	0.80	37.5	46.9	0.354	0.090	0.108	0.30	NonLiqfble
CPT-1	72	10.8	16.5	0.82	125	9191	5369	9.9	4.4	6.89	3.5	98.4	0.80	39.4	49.3	0.354	0.091	0.109	0.31	NonLiqfble
CPT-1	72.09	10.8	18.9	0.84	125	9202	5375	11.3	5.3	5.88	3.4	88.7	0.80	45.1	56.4	0.354	0.097	0.116	0.33	NonLiqfble
CPT-1	72.17	10.8	19.7	0.84	115	9212	5380	11.8	5.6	5.57	3.4	85.9	0.80	47.0	58.8	0.354	0.099	0.119	0.34	NonLiqfble
CPT-1	72.25	10.8	20.4	0.83	125	9221	5384	12.2	5.9	5.26	3.3	83.3	0.80	48.7	60.8	0.354	0.101	0.121	0.34	NonLiqfble
CPT-1	72.34	10.8	19.8	0.78	125	9232	5390	11.8	5.6	5.14	3.3	84.0	0.80	47.2	59.0	0.354	0.099	0.119	0.34	NonLiqfble
CPT-1	72.42	10.8	19.7	0.72	125	9242	5395	11.7	5.6	4.78	3.3	82.7	0.80	46.9	58.7	0.354	0.099	0.119	0.33	NonLiqfble
CPT-1	72.51	10.8	18.6	0.69	125	9254	5400	11.1	5.2	4.94	3.4	85.8	0.80	44.3</						

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Fric. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $q_{0.05}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{Corr}	$\Delta q_{0.05}$	$(q_{0.05})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	73.78	10.8	20.5	0.82	125	9419	5487	12.1	5.8	5.19	3.3	83.6	0.80	48.4	60.5	0.355	0.101	0.121	0.34	NonLiqfble.
CPT-1	73.87	10.8	21	0.76	125	9430	5492	12.4	5.9	4.67	3.3	80.5	0.80	49.6	62.0	0.355	0.102	0.123	0.35	NonLiqfble.
CPT-1	73.95	10.8	21.5	0.81	115	9440	5497	12.7	6.1	4.83	3.3	80.3	0.80	50.8	63.4	0.355	0.104	0.124	0.35	NonLiqfble.
CPT-1	74.03	10.8	22.5	0.82	115	9449	5501	13.3	6.5	4.61	3.3	77.7	0.80	53.1	66.4	0.355	0.107	0.129	0.36	NonLiqfble.
CPT-1	74.1	10.8	19.5	0.82	115	9458	5505	11.5	5.4	5.55	3.4	87.2	0.80	46.0	57.5	0.355	0.098	0.117	0.33	NonLiqfble.
CPT-1	74.13	10.8	23.2	0.82	115	9461	5507	13.7	6.7	4.44	3.2	75.9	0.80	54.7	68.4	0.355	0.110	0.132	0.37	NonLiqfble.
CPT-1	74.18	10.8	25	0.82	125	9467	5509	14.7	7.4	4.05	3.2	71.5	0.80	58.9	73.7	0.355	0.117	0.141	0.40	NonLiqfble.
CPT-1	74.24	10.8	24.5	0.82	125	9474	5513	14.4	7.2	4.15	3.2	72.7	0.80	57.7	72.2	0.355	0.115	0.138	0.39	NonLiqfble.
CPT-1	74.3	10.8	24.5	0.82	125	9482	5517	14.4	7.2	4.15	3.2	72.7	0.80	57.7	72.2	0.355	0.115	0.138	0.39	NonLiqfble.
CPT-1	74.36	10.8	24.5	0.82	125	9489	5521	14.4	7.2	4.15	3.2	72.7	0.80	57.7	72.1	0.355	0.115	0.138	0.39	NonLiqfble.
CPT-1	74.44	10.8	25.3	0.83	125	9499	5526	14.9	7.4	4.04	3.2	71.2	0.80	59.6	74.5	0.355	0.118	0.142	0.40	NonLiqfble.
CPT-1	74.51	10.8	25.5	0.83	125	9508	5530	15.0	7.5	4.00	3.2	70.7	0.80	60.0	75.0	0.355	0.119	0.143	0.40	NonLiqfble.
CPT-1	74.59	10.8	25.2	0.84	115	9518	5535	14.8	7.4	4.11	3.2	71.7	0.80	59.3	74.1	0.355	0.118	0.141	0.40	NonLiqfble.
CPT-1	74.67	10.8	25.6	0.87	115	9527	5539	15.0	7.5	4.18	3.2	71.5	0.80	60.2	75.2	0.356	0.120	0.144	0.40	NonLiqfble.
CPT-1	74.75	10.8	25.1	0.91	115	9536	5543	14.8	7.3	4.48	3.2	73.5	0.80	59.0	73.8	0.356	0.117	0.141	0.40	NonLiqfble.
CPT-1	74.84	10.8	25.2	0.96	125	9547	5548	14.8	7.4	4.70	3.2	74.4	0.80	59.2	74.0	0.356	0.118	0.141	0.40	NonLiqfble.
CPT-1	74.92	10.8	26.1	0.97	125	9557	5553	15.3	7.7	4.55	3.2	72.6	0.80	61.3	76.6	0.356	0.122	0.146	0.41	NonLiqfble.
CPT-1	75	10.8	26.2	0.98	125	9567	5558	15.4	7.7	4.58	3.2	72.6	0.80	61.5	76.9	0.356	0.122	0.147	0.41	NonLiqfble.
CPT-1	75.08	10.8	27.1	0.98	115	9577	5563	15.9	8.0	4.39	3.2	70.7	0.80	63.6	79.5	0.356	0.127	0.152	0.43	NonLiqfble.
CPT-1	75.17	10.8	26.9	0.97	115	9587	5568	15.8	7.9	4.39	3.2	71.0	0.80	63.1	78.9	0.356	0.126	0.151	0.42	NonLiqfble.
CPT-1	75.25	10.8	26.3	0.93	115	9596	5572	15.4	7.7	4.33	3.2	71.5	0.80	61.7	77.1	0.356	0.123	0.147	0.41	NonLiqfble.
CPT-1	75.34	10.8	24.8	0.89	115	9607	5577	14.5	7.2	4.45	3.2	74.1	0.80	58.1	72.7	0.356	0.116	0.139	0.39	NonLiqfble.
CPT-1	75.42	10.8	23.9	0.86	115	9616	5581	14.0	6.8	4.50	3.2	75.6	0.80	56.0	70.0	0.356	0.112	0.134	0.38	NonLiqfble.
CPT-1	75.51	10.8	22.2	0.8	115	9626	5586	13.0	6.2	4.60	3.3	78.8	0.80	52.0	65.0	0.356	0.106	0.127	0.36	NonLiqfble.
CPT-1	75.59	10.8	20.7	0.77	115	9635	5590	12.1	5.7	4.85	3.3	82.5	0.80	48.5	60.6	0.356	0.101	0.121	0.34	NonLiqfble.
CPT-1	75.67	10.8	19.6	0.74	115	9645	5594	11.5	5.3	5.01	3.4	85.4	0.80	45.9	57.3	0.356	0.098	0.117	0.33	NonLiqfble.
CPT-1	75.76	10.8	18.6	0.7	115	9655	5599	10.9	4.9	5.08	3.4	88.0	0.80	43.5	54.4	0.356	0.095	0.114	0.32	NonLiqfble.
CPT-1	75.84	10.8	17.6	0.69	115	9664	5603	10.3	4.6	5.41	3.4	91.8	0.80	41.2	51.4	0.357	0.093	0.111	0.31	NonLiqfble.
CPT-1	75.92	10.8	18.5	0.69	115	9673	5607	10.8	4.9	5.05	3.4	88.1	0.80	43.2	54.0	0.357	0.095	0.114	0.32	NonLiqfble.
CPT-1	76.01	10.8	18.3	0.7	115	9684	5612	10.7	4.8	5.20	3.4	89.3	0.80	42.8	53.4	0.357	0.094	0.113	0.32	NonLiqfble.
CPT-1	76.09	10.8	18	0.71	115	9693	5616	10.5	4.7	5.40	3.4	90.9	0.80	42.0	52.5	0.357	0.093	0.112	0.31	NonLiqfble.
CPT-1	76.18	10.8	18.8	0.74	115	9703	5621	11.0	5.0	5.31	3.4	88.7	0.80	43.9	54.9	0.357	0.095	0.114	0.32	NonLiqfble.
CPT-1	76.26	10.8	19.5	0.75	125	9712	5625	11.4	5.2	5.12	3.4	86.4	0.80	45.5	56.9	0.357	0.097	0.117	0.33	NonLiqfble.
CPT-1	76.34	10.8	19.2	0.76	125	9722	5630	11.2	5.1	5.30	3.4	87.8	0.80	44.8	56.0	0.357	0.096	0.116	0.32	NonLiqfble.
CPT-1	76.42	10.8	19.5	0.78	125	9732	5635	11.4	5.2	5.33	3.4	87.3	0.80	45.5	56.8	0.357	0.097	0.116	0.33	NonLiqfble.
CPT-1	76.51	10.8	21.1	0.79	135	9744	5641	12.3	5.8	4.87	3.3	82.3	0.80	49.2	61.5	0.357	0.102	0.122	0.34	NonLiqfble.
CPT-1	76.59	10.8	21.5	0.79	135	9754	5647	12.5	5.9	4.75	3.3	81.1	0.80	50.1	62.6	0.357	0.103	0.123	0.35	NonLiqfble.
CPT-1	76.68	10.8	22.5	0.8	135	9767	5653	13.1	6.2	4.54	3.3	78.5	0.80	52.4	65.5	0.357	0.106	0.127	0.36	NonLiqfble.
CPT-1	76.76	10.8	22.8	0.8	135	9777	5659	13.3	6.3	4.47	3.3	77.7	0.80	53.0	66.3	0.357	0.107	0.129	0.36	NonLiqfble.
CPT-1	76.84	10.8	22.1	0.81	135	9788	5665	12.8	6.1	4.71	3.3	79.9	0.80	51.4	64.2	0.357	0.105	0.126	0.35	NonLiqfble.
CPT-1	76.93	10.8	22.5	0.81	135	9800	5671	13.1	6.2	4.60	3.3	78.9	0.80	52.3	65.4	0.357	0.106	0.127	0.36	NonLiqfble.
CPT-1	77.01	10.8	22	0.8	135	9811	5677	12.8	6.0	4.68	3.3	80.1	0.80	51.1	63.9	0.357	0.104	0.125	0.35	NonLiqfble.
CPT-1	77.09	10.8	22.1	0.81	135	9822	5683	12.8	6.0	4.71	3.3	80.1	0.80	51.3	64.1	0.357	0.105	0.125	0.35	NonLiqfble.
CPT-1	77.18	10.8	22.3	0.93	135	9834	5689	12.9	6.1	5.35	3.3	82.5	0.80	51.7	64.7	0.357	0.105	0.126	0.35	NonLiqfble.
CPT-1	77.26	10.8	22.3	1.09	135	9845	5695	12.9	6.1	6.27	3.4	86.0	0.80	51.7	64.6	0.357	0.105	0.126	0.35	NonLiqfble.
CPT-1	77.34	10.8	21.5	1.2	135	9856	5701	12.5	5.8	7.24	3.4	90.8	0.80	49.8	62.3	0.357	0.102	0.123	0.34	NonLiqfble.
CPT-1	77.42	10.8	22.5	1.27	135	9867	5707	13.0	6.2	7.23	3.4	89.0	0.80	52.1	65.2	0.357	0.106	0.127	0.36	NonLiqfble.
CPT-1	77.51	10.8	30.5	1.36	135	9879	5713	17.7	8.9	5.32	3.2	71.7	0.80	70.6	88.3	0.357	0.144	0.173	0.48	NonLiqfble.
CPT-1	77.6	10.8	30.9	1.52	135	9891	5720	17.9	9.1	5.86	3.2	73.3	0.80	71.5	89.4	0.357	0.146	0.176	0.49	NonLiqfble.
CPT-1	77.68	10.8	33	1.66	135	9902	5726	19.1	9.8	5.92	3.2	71.5	0.80	76.3	95.4	0.357	0.161	0.193	0.54	NonLiqfble.
CPT-1	77.76	10.8	38.5	1.73	125	9912	5732	22.3	11.7	5.16	3.1	64.2	0.80	89.0	111.3	0.357	0.208	0.250	0.70	NonLiqfble.
CPT-1	77.85	10.8	43.7	1.77	125	9924	5737	25.2	13.5	4.57	3.0	58.6	0.80	101.0	126.2	0.358	0.267	0.320	0.90	NonLiqfble.
CPT-1	77.93	10.8	46.7	1.78	125	9934	5742	27.0	14.5	4.27	3.0	55.7	0.80	107.9	134.8	0.358	0.308	0.369	1.03	NonLiqfble.
CPT-1	78.01	10.8	45.6	1.74	125	9944	5747	26.3	14.1	4.28	3.0	56.4	0.80	105.3	131.6	0.358	0.292	0.350	0.98	NonLiqfble.
CPT-1	78.09	10.8	40.6	1.64	125	9954	5752	23.4	12.4	4.60	3.0	60.7	0.80	93.7	117.1	0.358	0.229	0.275	0.77	NonLiqfble.
CPT-1	78.17	10.8	33.9	1.52	125	9964	5757	19.5	10.0	5.26	3.1	68.4	0.80	78.2	97.7	0.358	0.167	0.200	0.56	NonLiqfble.
CPT-1	78.25	10.8	29	1.42	125	9974	5762	16.7	8.3	5.91	3.2	75.8	0.80	66.9	83.6	0.358	0.134	0.161	0.45	NonLiqfble.
CPT-1	78.34	10.8	26.2	1.37	125	9985	5768	15.1	7.3	6.46	3.3	81.2	0.80	60.4	75.5	0.358	0.120	0.144	0.40	NonLiqfble.
CPT-1	78.42	10.8	24.6	1.33	125	9995	5773	14.2	6.8	6.79	3.3	84.6	0.80	56.7	70.8	0.358	0.113	0.136	0.38	NonLiqfble.
CPT-1	78.5	10.8	24.9	1.31	125	10005	5778	14.3	6.9	6.58	3.3	83.5	0.80	57.3	71.7	0.358	0.114	0.137	0.38	NonLiqfble.
CPT-1	78.58	10.8	26.3	1.32	125	10015	5783	15.1	7.4	6.20	3.3	80.3	0.80	60.5	75.7					

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-1
 Depth to Groundwater: 10.8 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip q_{ts}	Corr. Tip Q	Friction Ratio F	lc	F.C. (%)	K_{CPT}	Δq_{ts}	$(q_{ts})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-1	79.87	10.8	54.3	2.95	135	10178	5865	31.0	16.8	5.99	3.0	58.9	0.80	124.1	155.1	0.359	0.427	0.512	1.43	NonLiqble.
CPT-1	79.95	10.8	54.5	2.95	135	10188	5871	31.1	16.8	5.97	3.0	58.7	0.80	124.5	155.6	0.359	0.430	0.516	1.44	NonLiqble.
CPT-1	80.03	10.8	48.2	2.9	135	10199	5877	27.5	14.7	6.73	3.1	64.2	0.80	110.0	137.6	0.334	0.322	0.386	1.16	NonLiqble.

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{IN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{CIN}	$(Q_{IN})_{ES}$	Induced Liquef.		Factor of Safety	Comments	
																Stress Ratio	Stress M7.5			Stress M7.10
CPT-2	0.54	11	105.8	3.08	135	73	73	202.6	2900.4	2.91	1.7	5.8	0.02	4.6	207.2	0.350	0.907	1.089	3.11	Above W.T.
CPT-2	0.62	11	89.5	2.54	135	84	84	171.4	2136.7	2.84	1.7	5.7	0.02	3.4	174.8	0.350	0.577	0.692	1.98	Above W.T.
CPT-2	0.7	11	74.4	2.17	135	95	95	142.5	1572.9	2.92	1.7	6.3	0.03	4.9	147.4	0.350	0.378	0.454	1.29	Above W.T.
CPT-2	0.77	11	72.9	2.14	135	104	104	139.6	1401.0	2.94	1.7	6.5	0.04	5.7	145.3	0.350	0.365	0.439	1.25	Above W.T.
CPT-2	0.86	11	49.8	2.02	135	116	116	95.4	856.5	4.06	1.9	10.5	0.15	16.5	111.9	0.350	0.210	0.252	0.72	Above W.T.
CPT-2	0.94	11	39.5	1.87	135	127	127	75.7	621.3	4.74	2.0	13.3	0.22	21.6	97.2	0.350	0.165	0.199	0.57	Above W.T.
CPT-2	1.02	11	26.1	1.7	135	138	138	50.0	377.9	6.53	2.2	19.7	0.39	32.5	82.4	0.350	0.132	0.159	0.45	Above W.T.
CPT-2	1.1	11	18	1.51	135	149	149	34.5	241.3	8.42	2.4	26.6	0.58	47.1	81.6	0.350	0.131	0.157	0.45	Above W.T.
CPT-2	1.17	11	14	1.28	135	158	158	26.8	176.2	9.19	2.5	30.8	0.69	59.6	86.4	0.350	0.140	0.168	0.48	Above W.T.
CPT-2	1.26	11	12.3	1	125	170	170	23.6	143.6	8.19	2.5	30.9	0.69	52.8	76.4	0.350	0.121	0.146	0.42	Above W.T.
CPT-2	1.34	11	12.6	0.78	125	180	180	24.1	138.9	6.24	2.4	26.9	0.59	34.1	58.2	0.350	0.098	0.118	0.34	Above W.T.
CPT-2	1.41	11	12.6	0.69	125	189	189	24.1	132.4	5.52	2.4	25.6	0.55	29.5	53.7	0.350	0.094	0.113	0.32	Above W.T.
CPT-2	1.49	11	11.9	0.69	125	199	199	22.8	118.6	5.85	2.4	27.6	0.60	34.6	57.4	0.350	0.098	0.117	0.33	Above W.T.
CPT-2	1.57	11	10.6	0.69	125	209	209	20.3	100.5	6.57	2.5	31.2	0.70	47.3	67.6	0.350	0.109	0.130	0.37	Above W.T.
CPT-2	1.65	11	11.6	0.7	125	219	219	22.2	105.0	6.09	2.5	29.5	0.65	42.1	64.3	0.350	0.105	0.126	0.36	Above W.T.
CPT-2	1.73	11	13.3	0.74	125	229	229	25.5	115.2	5.61	2.4	27.3	0.59	37.4	62.9	0.350	0.103	0.124	0.35	Above W.T.
CPT-2	1.81	11	15.1	0.83	125	239	239	28.9	125.4	5.54	2.4	26.2	0.57	37.8	66.7	0.350	0.108	0.129	0.37	Above W.T.
CPT-2	1.89	11	14.6	0.96	125	249	249	28.0	116.3	6.63	2.5	29.7	0.66	54.2	82.2	0.350	0.132	0.158	0.45	Above W.T.
CPT-2	1.96	11	14.6	1.07	125	258	258	28.0	112.3	7.39	2.5	31.8	0.72	70.7	98.7	0.350	0.169	0.203	0.58	Above W.T.
CPT-2	2.05	11	14.2	1.16	135	269	269	27.2	104.6	8.25	2.6	34.5	0.79	100.8	128.0	0.350	0.275	0.330	0.94	Above W.T.
CPT-2	2.12	11	14.4	1.3	135	278	278	27.6	102.4	9.12	2.6	36.5	0.80	110.3	137.9	0.350	0.324	0.389	1.11	Above W.T.
CPT-2	2.2	11	15.7	1.31	135	289	289	30.1	107.6	8.42	2.6	34.5	0.79	112.1	142.1	0.350	0.347	0.416	1.19	Above W.T.
CPT-2	2.27	11	16	1.32	135	299	299	30.6	106.1	8.33	2.6	34.5	0.79	113.5	144.1	0.350	0.359	0.430	1.23	Above W.T.
CPT-2	2.31	11	16.4	1.35	135	304	304	31.4	106.9	8.31	2.6	34.4	0.78	114.2	145.6	0.350	0.367	0.440	1.26	Above W.T.
CPT-2	2.4	11	16.9	1.4	135	316	316	32.4	105.9	8.36	2.6	34.6	0.79	121.8	154.2	0.350	0.421	0.505	1.44	Above W.T.
CPT-2	2.48	11	16.9	1.42	135	327	327	32.4	102.4	8.48	2.6	35.2	0.80	129.5	161.8	0.350	0.474	0.569	1.62	Above W.T.
CPT-2	2.56	11	17.1	1.43	135	338	338	32.7	100.2	8.45	2.6	35.4	0.80	131.0	163.7	0.350	0.488	0.586	1.67	Above W.T.
CPT-2	2.65	11	16.6	1.48	135	350	350	31.8	93.9	9.01	2.6	37.4	0.80	127.2	159.0	0.350	0.454	0.544	1.55	Above W.T.
CPT-2	2.72	11	16.8	1.5	135	359	359	32.2	92.5	9.03	2.6	37.6	0.80	128.7	160.9	0.350	0.467	0.561	1.60	Above W.T.
CPT-2	2.81	11	16.3	1.49	135	371	371	31.2	86.7	9.25	2.7	38.8	0.80	124.9	156.1	0.350	0.434	0.520	1.49	Above W.T.
CPT-2	2.89	11	16.4	1.48	135	382	382	31.4	84.8	9.13	2.7	38.9	0.80	125.6	157.0	0.350	0.440	0.528	1.51	Above W.T.
CPT-2	2.97	11	15.7	1.46	135	393	393	30.1	78.9	9.42	2.7	40.4	0.80	120.3	150.3	0.350	0.396	0.475	1.36	Above W.T.
CPT-2	3.05	11	15.5	1.44	135	404	404	29.7	75.7	9.41	2.7	41.0	0.80	118.7	148.4	0.350	0.384	0.461	1.32	Above W.T.
CPT-2	3.13	11	15.1	1.44	135	415	415	28.9	71.8	9.67	2.7	42.2	0.80	115.7	144.6	0.350	0.361	0.433	1.24	Above W.T.
CPT-2	3.21	11	15.3	1.43	135	425	425	29.3	70.9	9.48	2.7	42.0	0.80	117.2	146.5	0.350	0.372	0.447	1.28	Above W.T.
CPT-2	3.3	11	15.4	1.41	135	438	438	29.5	69.4	9.29	2.7	41.9	0.80	118.0	147.5	0.350	0.378	0.454	1.30	Above W.T.
CPT-2	3.38	11	14.8	1.4	135	448	448	28.3	65.0	9.61	2.8	43.5	0.80	113.4	141.7	0.350	0.345	0.414	1.18	Above W.T.
CPT-2	3.45	11	14.6	1.38	135	458	458	28.0	62.7	9.60	2.8	44.0	0.80	111.8	139.8	0.350	0.334	0.401	1.14	Above W.T.
CPT-2	3.54	11	14.6	1.37	135	470	470	28.0	61.1	9.54	2.8	44.3	0.80	111.8	139.8	0.350	0.334	0.401	1.14	Above W.T.
CPT-2	3.62	11	14.3	1.35	135	481	481	27.4	58.5	9.60	2.8	45.1	0.80	109.5	136.9	0.350	0.319	0.383	1.09	Above W.T.
CPT-2	3.7	11	14	1.33	135	492	492	26.8	55.9	9.67	2.8	45.9	0.80	107.3	134.1	0.350	0.304	0.365	1.04	Above W.T.
CPT-2	3.77	11	13.9	1.32	135	501	501	26.6	54.5	9.67	2.8	46.3	0.80	106.5	133.1	0.350	0.299	0.359	1.03	Above W.T.
CPT-2	3.86	11	13.7	1.32	135	513	513	26.2	52.4	9.82	2.8	47.2	0.80	105.0	131.2	0.350	0.290	0.348	0.99	Above W.T.
CPT-2	3.93	11	13.5	1.3	135	523	523	25.8	50.6	9.82	2.8	47.8	0.80	103.3	129.2	0.350	0.281	0.337	0.96	Above W.T.
CPT-2	4.01	11	13	1.27	135	533	533	24.6	47.7	9.97	2.9	49.0	0.80	98.5	123.1	0.350	0.254	0.304	0.87	Above W.T.
CPT-2	4.1	11	13.3	1.26	135	546	546	24.9	47.7	9.67	2.8	48.4	0.80	99.7	124.6	0.350	0.260	0.312	0.89	Above W.T.
CPT-2	4.18	11	13.7	1.25	135	556	556	25.4	48.2	9.31	2.8	47.5	0.80	101.6	127.1	0.350	0.271	0.325	0.93	Above W.T.
CPT-2	4.26	11	13.1	1.25	135	567	567	24.1	45.2	9.75	2.9	49.5	0.80	96.3	120.3	0.350	0.242	0.290	0.83	Above W.T.
CPT-2	4.34	11	13.2	1.24	135	578	578	24.0	44.7	9.60	2.9	49.4	0.80	96.1	120.1	0.350	0.241	0.289	0.83	Above W.T.
CPT-2	4.42	11	13.4	1.22	135	589	589	24.2	44.5	9.31	2.8	48.8	0.80	96.6	120.8	0.350	0.244	0.293	0.84	Above W.T.
CPT-2	4.49	11	13.5	1.2	135	598	598	24.1	44.1	9.09	2.8	48.5	0.80	96.6	120.7	0.350	0.244	0.292	0.83	Above W.T.
CPT-2	4.58	11	13.3	1.2	135	610	610	23.6	42.6	9.23	2.9	49.4	0.80	94.2	117.8	0.350	0.232	0.278	0.79	Above W.T.
CPT-2	4.66	11	13.1	1.2	135	621	621	23.0	41.2	9.38	2.9	50.3	0.80	92.0	115.0	0.350	0.221	0.266	0.76	Above W.T.
CPT-2	4.74	11	12.8	1.2	125	632	632	22.3	39.5	9.61	2.9	51.5	0.80	89.1	111.4	0.350	0.209	0.250	0.71	Above W.T.
CPT-2	4.82	11	12.7	1.21	125	642	642	21.9	38.5	9.77	2.9	52.3	0.80	87.7	109.7	0.350	0.203	0.243	0.69	Above W.T.
CPT-2	4.9	11	12.5	1.23	125	652	652	21.4	37.3	10.10	2.9	53.5	0.80	85.7	107.1	0.350	0.194	0.233	0.67	Above W.T.
CPT-2	4.97	11	12.3	1.23	125	661	661	20.9	36.2	10.28	2.9	54.4	0.80	83.7	104.7	0.350	0.187	0.224	0.64	Above W.T.
CPT-2	5.06	11	11.8	1.22	125	672	672	19.9	34.1	10.64	3.0	56.3	0.80	79.7	99.6	0.350	0.172	0.206	0.59	Above W.T.
CPT-2	5.14	11	11.8	1.19	125	682	682	19.8	33.6	10.38	3.0	56.0	0.80	79.1	98.8	0.350	0.170	0.204	0.58	Above W.T.
CPT-2	5.22	11	12.2	1.15	125	692	692	20.3	34.2	9.70	2.9	54.2	0.80	81.2	101.5	0.350	0.177	0.213	0.61	Above W.T.
CPT-2	5.3	11	12.2	1.14	125	702	702	20.1	33.7	9.62	2.9	54.3	0.80	80.6	100.7	0.350	0.175	0.210	0.60	Above W.T.
CPT-2	5.38	11	11.3	1.1	125	712	712	18.5	30.7	10.05	3.0	57.0	0.80	74.1	92.6	0.350	0.154	0.185	0.53	Above W.T.
CPT-2	5.46	11	11.4	1.14	125															

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	ΔQ _{0.01}	(Q _{tip}) _{0.01}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	5.68	11	12.3	1.12	125	750	750	19.7	31.8	9.39	2.9	54.9	0.80	78.6	98.3	0.350	0.168	0.202	0.58	Above W.T.
CPT-2	5.76	11	12.1	1.1	125	760	760	19.2	30.8	9.39	3.0	55.5	0.80	76.8	96.1	0.350	0.162	0.195	0.56	Above W.T.
CPT-2	5.84	11	12.2	1.06	125	770	770	19.2	30.7	8.97	2.9	54.6	0.80	77.0	96.2	0.350	0.163	0.195	0.56	Above W.T.
CPT-2	5.92	11	11.9	1.03	125	780	780	18.6	29.5	8.95	3.0	55.3	0.80	74.6	93.2	0.350	0.155	0.186	0.53	Above W.T.
CPT-2	6	11	11.8	0.99	125	790	790	18.4	28.9	8.68	2.9	55.1	0.80	73.5	91.9	0.350	0.152	0.183	0.52	Above W.T.
CPT-2	6.08	11	12.1	0.97	125	800	800	18.7	29.3	8.29	2.9	53.9	0.80	74.9	93.6	0.350	0.156	0.188	0.54	Above W.T.
CPT-2	6.16	11	11.9	0.96	125	810	810	18.3	28.4	8.35	2.9	54.7	0.80	73.2	91.5	0.350	0.151	0.181	0.52	Above W.T.
CPT-2	6.24	11	12.1	0.95	125	820	820	18.5	28.5	8.13	2.9	54.0	0.80	74.0	92.5	0.350	0.154	0.184	0.53	Above W.T.
CPT-2	6.32	11	12.7	0.97	125	830	830	19.3	29.6	7.90	2.9	52.7	0.80	77.2	96.5	0.350	0.163	0.196	0.56	Above W.T.
CPT-2	6.4	11	12.8	1	125	840	840	19.3	29.5	8.08	2.9	53.3	0.80	77.3	96.6	0.350	0.164	0.197	0.56	Above W.T.
CPT-2	6.48	11	14	1.06	125	850	850	21.0	31.9	7.81	2.9	51.1	0.80	84.1	105.1	0.350	0.188	0.225	0.64	Above W.T.
CPT-2	6.57	11	15.7	1.12	135	861	861	23.4	35.5	7.33	2.8	48.0	0.80	93.7	117.1	0.350	0.229	0.275	0.79	Above W.T.
CPT-2	6.65	11	17.7	1.22	135	872	872	26.2	39.6	7.07	2.8	45.5	0.80	104.9	131.2	0.350	0.290	0.348	0.99	Above W.T.
CPT-2	6.72	11	18.5	1.34	135	881	881	27.3	41.0	7.42	2.8	45.8	0.80	109.1	136.4	0.350	0.316	0.379	1.08	Above W.T.
CPT-2	6.8	11	19.1	1.47	135	892	892	28.0	41.8	7.88	2.8	46.6	0.80	111.9	139.9	0.350	0.335	0.402	1.15	Above W.T.
CPT-2	6.89	11	20.1	1.57	135	904	904	29.3	43.5	7.99	2.8	46.2	0.80	117.0	146.3	0.350	0.371	0.445	1.27	Above W.T.
CPT-2	6.96	11	20.1	1.66	135	913	913	29.1	43.0	8.45	2.8	47.5	0.80	116.4	145.5	0.350	0.366	0.440	1.26	Above W.T.
CPT-2	7.04	11	20.7	1.72	135	924	924	29.8	43.8	8.50	2.8	47.3	0.80	119.2	149.0	0.350	0.387	0.465	1.33	Above W.T.
CPT-2	7.12	11	20.9	1.72	135	935	935	29.9	43.7	8.42	2.8	47.1	0.80	119.6	149.5	0.350	0.391	0.469	1.34	Above W.T.
CPT-2	7.2	11	22.7	1.77	135	946	946	32.3	47.0	7.96	2.8	44.9	0.80	129.2	161.5	0.350	0.472	0.566	1.62	Above W.T.
CPT-2	7.27	11	24.7	1.84	135	955	955	35.0	50.7	7.60	2.7	42.8	0.80	139.9	174.8	0.350	0.577	0.692	1.98	Above W.T.
CPT-2	7.35	11	25.3	1.86	135	966	966	35.6	51.4	7.49	2.7	42.4	0.80	142.5	178.1	0.350	0.605	0.726	2.07	Above W.T.
CPT-2	7.43	11	25.8	1.84	135	977	977	36.1	51.8	7.27	2.7	41.7	0.80	144.5	180.6	0.350	0.628	0.753	2.15	Above W.T.
CPT-2	7.51	11	25.1	1.82	135	988	988	34.9	49.8	7.40	2.7	42.6	0.80	139.8	174.7	0.350	0.576	0.691	1.97	Above W.T.
CPT-2	7.59	11	24.7	1.77	135	998	998	34.2	48.5	7.31	2.7	42.8	0.80	136.8	171.0	0.350	0.545	0.654	1.87	Above W.T.
CPT-2	7.67	11	23.8	1.72	135	1009	1009	32.8	46.1	7.38	2.8	43.8	0.80	131.1	163.9	0.350	0.489	0.587	1.68	Above W.T.
CPT-2	7.74	11	23.3	1.69	135	1019	1019	31.9	44.7	7.42	2.8	44.3	0.80	127.8	159.7	0.350	0.459	0.551	1.57	Above W.T.
CPT-2	7.82	11	23.4	1.66	135	1030	1030	31.9	44.4	7.25	2.8	44.0	0.80	127.6	159.5	0.350	0.458	0.549	1.57	Above W.T.
CPT-2	7.9	11	24	1.66	135	1040	1040	32.6	45.1	7.07	2.8	43.3	0.80	130.2	162.8	0.350	0.481	0.577	1.65	Above W.T.
CPT-2	7.98	11	23.7	1.66	135	1051	1051	32.0	44.1	7.16	2.8	43.9	0.80	127.9	159.9	0.350	0.460	0.552	1.58	Above W.T.
CPT-2	8.05	11	23.5	1.63	135	1061	1061	31.6	43.3	7.10	2.8	44.1	0.80	126.3	157.9	0.350	0.446	0.535	1.53	Above W.T.
CPT-2	8.13	11	22.6	1.58	135	1071	1071	30.2	41.2	7.16	2.8	45.0	0.80	120.8	151.1	0.350	0.401	0.481	1.37	Above W.T.
CPT-2	8.21	11	22.6	1.54	135	1082	1082	30.1	40.8	6.98	2.8	44.8	0.80	120.2	150.3	0.350	0.396	0.475	1.36	Above W.T.
CPT-2	8.29	11	22	1.45	135	1093	1093	29.1	39.2	6.76	2.8	44.8	0.80	116.5	145.6	0.350	0.367	0.440	1.26	Above W.T.
CPT-2	8.37	11	20.2	1.36	135	1104	1104	26.6	35.6	6.92	2.8	46.9	0.80	106.4	133.0	0.350	0.299	0.359	1.02	Above W.T.
CPT-2	8.45	11	19.5	1.29	135	1115	1115	25.6	34.0	6.81	2.8	47.4	0.80	102.2	127.8	0.350	0.274	0.329	0.94	Above W.T.
CPT-2	8.52	11	19.1	1.25	135	1124	1124	24.9	33.0	6.74	2.8	47.7	0.80	99.7	124.6	0.350	0.260	0.312	0.89	Above W.T.
CPT-2	8.6	11	17.6	1.05	135	1135	1135	22.9	30.0	6.16	2.8	47.8	0.80	91.4	114.3	0.350	0.219	0.263	0.75	Above W.T.
CPT-2	8.68	11	18	1.35	135	1146	1146	23.3	30.4	7.75	2.9	51.9	0.80	93.1	116.3	0.350	0.226	0.272	0.78	Above W.T.
CPT-2	8.76	11	17.6	1.33	135	1156	1156	22.6	29.4	7.81	2.9	52.6	0.80	90.6	113.2	0.350	0.215	0.258	0.74	Above W.T.
CPT-2	8.83	11	18	1.31	135	1166	1166	23.1	29.9	7.52	2.9	51.6	0.80	92.3	115.3	0.350	0.223	0.267	0.76	Above W.T.
CPT-2	8.87	11	14.2	1.31	135	1171	1171	18.2	23.2	9.62	3.0	61.7	0.80	72.6	90.8	0.350	0.150	0.179	0.51	Above W.T.
CPT-2	8.97	11	18.5	1.28	135	1185	1185	23.5	30.2	7.15	2.9	50.4	0.80	94.1	117.6	0.350	0.231	0.277	0.79	Above W.T.
CPT-2	9.05	11	17.3	1.24	135	1196	1196	21.9	27.9	7.42	2.9	52.6	0.80	87.6	109.5	0.350	0.202	0.242	0.69	Above W.T.
CPT-2	9.13	11	17.3	1.21	135	1206	1206	21.8	27.7	7.25	2.9	52.3	0.80	87.2	109.0	0.350	0.200	0.240	0.69	Above W.T.
CPT-2	9.2	11	17.4	1.2	135	1216	1216	21.8	27.6	7.15	2.9	52.1	0.80	87.3	109.2	0.350	0.201	0.241	0.69	Above W.T.
CPT-2	9.28	11	17.3	1.2	135	1227	1227	21.6	27.2	7.19	2.9	52.5	0.80	86.5	108.1	0.350	0.197	0.237	0.68	Above W.T.
CPT-2	9.36	11	16.9	1.2	135	1237	1237	21.0	26.3	7.37	2.9	53.6	0.80	84.1	105.1	0.350	0.188	0.226	0.64	Above W.T.
CPT-2	9.44	11	16.9	1.17	135	1248	1248	20.9	26.1	7.19	2.9	53.3	0.80	83.7	104.6	0.350	0.187	0.224	0.64	Above W.T.
CPT-2	9.52	11	16.5	1.15	135	1259	1259	20.3	25.2	7.25	2.9	54.1	0.80	81.4	101.7	0.350	0.178	0.213	0.61	Above W.T.
CPT-2	9.6	11	16.2	1.12	135	1270	1270	19.9	24.5	7.20	2.9	54.5	0.80	79.6	99.5	0.350	0.171	0.206	0.59	Above W.T.
CPT-2	9.68	11	15.9	1.1	135	1281	1281	19.4	23.8	7.21	2.9	55.1	0.80	77.8	97.2	0.350	0.165	0.198	0.57	Above W.T.
CPT-2	9.75	11	15.4	1.09	135	1290	1290	18.8	22.9	7.39	3.0	56.4	0.80	75.0	93.8	0.350	0.157	0.188	0.54	Above W.T.
CPT-2	9.83	11	15.3	1.08	135	1301	1301	18.6	22.5	7.37	3.0	56.7	0.80	74.2	92.8	0.350	0.154	0.185	0.53	Above W.T.
CPT-2	9.91	11	15.6	1.05	135	1312	1312	18.8	22.8	7.03	3.0	55.5	0.80	75.4	94.2	0.350	0.158	0.189	0.54	Above W.T.
CPT-2	9.99	11	15.1	1.03	125	1322	1322	18.2	21.8	7.13	3.0	56.7	0.80	72.7	90.8	0.350	0.150	0.180	0.51	Above W.T.
CPT-2	10.06	11	15.2	1.03	125	1331	1331	18.2	21.8	7.09	3.0	56.6	0.80	72.9	91.1	0.343	0.150	0.180	0.53	Above W.T.
CPT-2	10.15	11	15	1.03	125	1342	1342	17.9	21.3	7.19	3.0	57.3	0.80	71.7	89.6	0.343	0.147	0.176	0.51	Above W.T.
CPT-2	10.22	11	14.5	1.02	125	1351	1351	17.3	20.5	7.38	3.0	58.7	0.80	69.0	86.3	0.343	0.140	0.168	0.49	Above W.T.
CPT-2	10.3	11	14.3	1.05	125	1361	1361	17.0	20.0	7.71	3.0	60.1	0.80	67.8	84.8	0.343	0.137	0.164	0.48	Above W.T.
CPT-2	10.38	11	13.9	1.07	125	1371	1371	16.4	19.3	8.10	3.1	61.9	0.80	65.7	82.1	0.343	0.132	0.158	0.46	Above W.T.
CPT-2	10.45	11	14.5	1.06	125	1380	1380	17.1	20.0	7.68	3.0	60.0	0.80	68.3	85.4	0.343	0.138	0.165	0.48	Above W.T.
CPT-2	10.53	11	13.9	1.02	125	1390	1390	16.3												

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	ΔQ_{c1N}	$(Q_{c1N})^{0.5}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	10.93	11	12.3	0.81	125	1440	1440	14.2	16.1	6.99	3.1	62.9	0.80	56.7	70.9	0.343	0.113	0.136	0.40	Above W.T.
CPT-2	11.01	11	12.5	0.83	125	1450	1445	14.4	16.3	7.05	3.1	62.8	0.80	57.6	71.9	0.345	0.115	0.138	0.40	NonLiqfble.
CPT-2	11.08	11	12.8	0.84	125	1459	1449	14.7	16.6	6.96	3.1	62.0	0.80	58.8	73.6	0.346	0.117	0.140	0.41	NonLiqfble.
CPT-2	11.16	11	13.5	0.83	125	1469	1454	15.5	17.5	6.50	3.0	59.5	0.80	62.0	77.4	0.347	0.123	0.148	0.43	NonLiqfble.
CPT-2	11.24	11	13.4	0.83	125	1479	1459	15.3	17.3	6.56	3.0	59.9	0.80	61.4	76.7	0.348	0.122	0.146	0.42	NonLiqfble.
CPT-2	11.32	11	12.6	0.8	125	1489	1464	14.4	16.2	6.75	3.1	62.0	0.80	57.6	72.0	0.349	0.115	0.138	0.39	NonLiqfble.
CPT-2	11.4	11	12.5	0.77	125	1499	1469	14.3	16.0	6.55	3.0	61.7	0.80	57.1	71.3	0.350	0.114	0.137	0.39	NonLiqfble.
CPT-2	11.48	11	12.4	0.75	125	1509	1474	14.1	15.8	6.44	3.0	61.6	0.80	56.5	70.6	0.351	0.113	0.135	0.39	NonLiqfble.
CPT-2	11.55	11	13	0.76	125	1517	1479	14.8	16.5	6.21	3.0	59.8	0.80	59.2	74.0	0.352	0.118	0.141	0.40	NonLiqfble.
CPT-2	11.63	11	13.2	0.78	125	1527	1484	15.0	16.8	6.27	3.0	59.8	0.80	60.0	75.0	0.353	0.119	0.143	0.40	NonLiqfble.
CPT-2	11.71	11	13.7	0.83	125	1537	1489	15.5	17.4	6.42	3.0	59.4	0.80	62.1	77.7	0.355	0.124	0.148	0.42	NonLiqfble.
CPT-2	11.79	11	13.7	0.88	125	1547	1494	15.5	17.3	6.81	3.0	60.7	0.80	62.0	77.5	0.356	0.123	0.148	0.42	NonLiqfble.
CPT-2	11.87	11	13.3	0.92	125	1557	1499	15.0	16.7	7.35	3.1	63.1	0.80	60.1	75.2	0.357	0.119	0.143	0.40	NonLiqfble.
CPT-2	11.95	11	13.3	0.94	125	1567	1504	15.0	16.6	7.51	3.1	63.6	0.80	60.0	75.0	0.358	0.119	0.143	0.40	NonLiqfble.
CPT-2	12.02	11	12.4	0.91	125	1576	1508	14.0	15.4	7.84	3.1	66.3	0.80	55.9	69.9	0.359	0.112	0.134	0.37	NonLiqfble.
CPT-2	12.1	11	12.2	0.87	125	1586	1513	13.7	15.1	7.63	3.1	66.2	0.80	54.9	68.6	0.360	0.110	0.132	0.37	NonLiqfble.
CPT-2	12.13	11	12.6	0.85	125	1590	1515	14.2	15.6	7.20	3.1	64.2	0.80	56.7	70.8	0.360	0.113	0.136	0.38	NonLiqfble.
CPT-2	12.18	11	13.2	0.8	125	1596	1518	14.8	16.3	6.45	3.0	60.9	0.80	59.3	74.1	0.361	0.118	0.141	0.39	NonLiqfble.
CPT-2	12.26	11	12.9	0.75	125	1606	1523	14.5	15.9	6.20	3.0	60.7	0.80	57.8	72.3	0.362	0.115	0.138	0.38	NonLiqfble.
CPT-2	12.34	11	11.7	0.73	125	1616	1528	13.1	14.2	6.70	3.1	64.8	0.80	52.4	65.5	0.363	0.106	0.127	0.35	NonLiqfble.
CPT-2	12.42	11	11.8	0.74	125	1626	1533	13.2	14.3	6.74	3.1	64.8	0.80	52.7	65.9	0.364	0.107	0.128	0.35	NonLiqfble.
CPT-2	12.5	11	11.9	0.74	125	1636	1538	13.3	14.4	6.68	3.1	64.5	0.80	53.1	66.4	0.365	0.107	0.129	0.35	NonLiqfble.
CPT-2	12.58	11	12	0.74	125	1646	1543	13.4	14.5	6.62	3.1	64.2	0.80	53.5	66.8	0.366	0.108	0.129	0.35	NonLiqfble.
CPT-2	12.66	11	11.9	0.74	125	1656	1548	13.2	14.3	6.68	3.1	64.7	0.80	52.9	66.2	0.367	0.107	0.128	0.35	NonLiqfble.
CPT-2	12.73	11	11.6	0.75	125	1665	1553	12.9	13.9	6.97	3.1	66.3	0.80	51.5	64.4	0.368	0.105	0.126	0.34	NonLiqfble.
CPT-2	12.81	11	11.4	0.74	125	1675	1558	12.6	13.6	7.01	3.1	66.9	0.80	50.6	63.2	0.369	0.103	0.124	0.34	NonLiqfble.
CPT-2	12.89	11	11	0.72	125	1685	1563	12.2	13.0	7.09	3.1	68.2	0.80	48.7	60.9	0.370	0.101	0.121	0.33	NonLiqfble.
CPT-2	12.97	11	11.4	0.71	125	1695	1568	12.6	13.5	6.73	3.1	66.2	0.80	50.4	63.0	0.371	0.103	0.124	0.33	NonLiqfble.
CPT-2	13.05	11	11.4	0.7	125	1705	1573	12.6	13.4	6.64	3.1	66.0	0.80	50.3	62.9	0.372	0.103	0.124	0.33	NonLiqfble.
CPT-2	13.13	11	11.3	0.69	125	1715	1578	12.4	13.2	6.61	3.1	66.3	0.80	49.8	62.2	0.373	0.102	0.123	0.33	NonLiqfble.
CPT-2	13.21	11	11.4	0.68	125	1725	1583	12.5	13.3	6.45	3.1	65.6	0.80	50.2	62.7	0.374	0.103	0.123	0.33	NonLiqfble.
CPT-2	13.28	11	11	0.65	125	1734	1587	12.1	12.8	6.41	3.1	66.5	0.80	48.3	60.4	0.375	0.100	0.121	0.32	NonLiqfble.
CPT-2	13.36	11	10.5	0.63	125	1744	1592	11.5	12.1	6.54	3.1	68.2	0.80	46.1	57.6	0.376	0.098	0.117	0.31	NonLiqfble.
CPT-2	13.44	11	11	0.64	125	1754	1597	12.0	12.7	6.32	3.1	66.4	0.80	48.2	60.2	0.377	0.100	0.120	0.32	NonLiqfble.
CPT-2	13.52	11	11.4	0.68	125	1764	1602	12.5	13.1	6.47	3.1	66.0	0.80	49.8	62.3	0.378	0.102	0.123	0.33	NonLiqfble.
CPT-2	13.6	11	12	0.74	125	1774	1607	13.1	13.8	6.66	3.1	65.4	0.80	52.4	65.5	0.379	0.106	0.127	0.34	NonLiqfble.
CPT-2	13.67	11	12.7	0.81	125	1782	1611	13.8	14.6	6.86	3.1	64.6	0.80	55.4	69.2	0.380	0.111	0.133	0.35	NonLiqfble.
CPT-2	13.75	11	13.1	0.84	125	1792	1616	14.3	15.1	6.88	3.1	64.0	0.80	57.0	71.3	0.381	0.114	0.136	0.36	NonLiqfble.
CPT-2	13.83	11	12.8	0.86	125	1802	1621	13.9	14.7	7.23	3.1	65.7	0.80	55.6	69.5	0.382	0.111	0.134	0.35	NonLiqfble.
CPT-2	13.91	11	12.9	0.85	125	1812	1626	14.0	14.7	7.09	3.1	65.2	0.80	56.0	70.0	0.383	0.112	0.134	0.35	NonLiqfble.
CPT-2	13.99	11	12.3	0.82	125	1822	1632	13.3	14.0	7.20	3.1	66.8	0.80	53.3	66.6	0.384	0.107	0.129	0.34	NonLiqfble.
CPT-2	14.06	11	12.1	0.79	125	1831	1636	13.1	13.7	7.06	3.1	66.9	0.80	52.4	65.4	0.384	0.106	0.127	0.33	NonLiqfble.
CPT-2	14.14	11	12.3	0.77	125	1841	1641	13.3	13.9	6.77	3.1	65.6	0.80	53.1	66.4	0.385	0.107	0.129	0.33	NonLiqfble.
CPT-2	14.22	11	13.2	0.79	125	1851	1646	14.2	14.9	6.44	3.1	62.9	0.80	56.9	71.2	0.386	0.114	0.136	0.35	NonLiqfble.
CPT-2	14.29	11	13.3	0.82	125	1860	1650	14.3	15.0	6.63	3.1	63.4	0.80	57.3	71.6	0.387	0.114	0.137	0.35	NonLiqfble.
CPT-2	14.38	11	14.1	0.87	125	1871	1656	15.2	15.9	6.61	3.1	62.0	0.80	60.6	75.8	0.388	0.121	0.145	0.37	NonLiqfble.
CPT-2	14.45	11	13.9	0.92	125	1880	1660	14.9	15.6	7.10	3.1	63.9	0.80	59.7	74.6	0.389	0.119	0.142	0.37	NonLiqfble.
CPT-2	14.53	11	14	0.95	125	1890	1665	15.0	15.7	7.28	3.1	64.3	0.80	60.0	75.1	0.390	0.119	0.143	0.37	NonLiqfble.
CPT-2	14.61	11	13.9	0.96	125	1900	1670	14.9	15.5	7.41	3.1	65.0	0.80	59.5	74.4	0.391	0.118	0.142	0.36	NonLiqfble.
CPT-2	14.69	11	14.6	0.96	125	1910	1675	15.6	16.3	7.04	3.1	62.7	0.80	62.4	78.0	0.391	0.124	0.149	0.38	NonLiqfble.
CPT-2	14.76	11	14	0.94	125	1919	1680	14.9	15.5	7.21	3.1	64.3	0.80	59.8	74.7	0.392	0.119	0.143	0.36	NonLiqfble.
CPT-2	14.84	11	14.6	0.91	125	1929	1685	15.6	16.2	6.67	3.0	61.8	0.80	62.3	77.8	0.393	0.124	0.149	0.38	NonLiqfble.
CPT-2	14.92	11	14.9	0.87	125	1939	1690	15.9	16.5	6.25	3.0	60.0	0.80	63.4	79.3	0.394	0.126	0.152	0.38	NonLiqfble.
CPT-2	15	11	14.9	0.88	125	1949	1695	15.8	16.4	6.32	3.0	60.4	0.80	63.3	79.2	0.395	0.126	0.151	0.38	NonLiqfble.
CPT-2	15.08	11	15.4	0.94	125	1959	1700	16.3	17.0	6.52	3.0	60.3	0.80	65.4	81.7	0.396	0.131	0.157	0.40	NonLiqfble.
CPT-2	15.16	11	16.4	1.01	135	1969	1705	17.4	18.1	6.55	3.0	59.0	0.80	69.5	86.9	0.397	0.141	0.169	0.43	NonLiqfble.
CPT-2	15.24	11	16.1	1.06	135	1980	1711	17.0	17.7	7.02	3.0	60.9	0.80	68.1	85.2	0.397	0.137	0.165	0.42	NonLiqfble.
CPT-2	15.31	11	16	1.08	135	1989	1716	16.9	17.5	7.20	3.0	61.6	0.80	67.6	84.5	0.398	0.136	0.163	0.41	NonLiqfble.
CPT-2	15.41	11	16	1.1	135	2002	1723	16.9	17.4	7.33	3.1	62.1	0.80	67.5	84.3	0.399	0.136	0.163	0.41	NonLiqfble.
CPT-2	15.48	11	16.2	1.09	135	2012	1728	17.1	17.6	7.17	3.0	61.4	0.80	68.2	85.3	0.400	0.138	0.165	0.41	NonLiqfble.
CPT-2	15.56	11	16.2	1.08	135	2023	1734	17.0	17.5	7.11	3.0	61.3	0.80	68.1	85.1	0.401	0.137	0.165	0.41	NonLiqfble.
CPT-2	15.64	11	16.2	1.04	135	2034	1740	17.0	17.4	6.85	3									

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio		F.C. (%)	K_{CPT}	$\Delta q_{(1N)}$	$(q_{(1N)})_s$	Induced Liquef.			Factor of Safety	Comments
										F	I_c					Stress Ratio	M7.5	M7.10		
CPT-2	16.12	11	15.5	0.89	125	2097	1773	16.1	16.3	6.16	3.0	60.0	0.80	64.4	80.5	0.406	0.129	0.154	0.38	NonLiqfble.
CPT-2	16.2	11	14.4	0.88	125	2107	1778	14.9	15.0	6.59	3.1	63.3	0.80	59.8	74.7	0.407	0.119	0.143	0.35	NonLiqfble.
CPT-2	16.27	11	14.6	0.87	125	2115	1782	15.1	15.2	6.42	3.1	62.5	0.80	60.5	75.7	0.408	0.120	0.144	0.35	NonLiqfble.
CPT-2	16.36	11	14.7	0.86	125	2127	1788	15.2	15.2	6.31	3.1	62.0	0.80	60.8	76.1	0.408	0.121	0.145	0.36	NonLiqfble.
CPT-2	16.43	11	14.4	0.85	125	2135	1792	14.9	14.9	6.38	3.1	62.8	0.80	59.5	74.4	0.409	0.118	0.142	0.35	NonLiqfble.
CPT-2	16.51	11	14.1	0.86	125	2145	1797	14.6	14.5	6.60	3.1	64.1	0.80	58.2	72.8	0.410	0.116	0.139	0.34	NonLiqfble.
CPT-2	16.58	11	14.8	0.9	125	2154	1802	15.3	15.2	6.56	3.1	62.8	0.80	61.0	76.3	0.411	0.121	0.146	0.35	NonLiqfble.
CPT-2	16.67	11	15.4	0.96	125	2165	1807	15.8	15.8	6.71	3.1	62.4	0.80	63.4	79.2	0.411	0.126	0.152	0.37	NonLiqfble.
CPT-2	16.74	11	16.4	0.99	125	2174	1812	16.9	16.9	6.47	3.0	60.2	0.80	67.4	84.3	0.412	0.136	0.163	0.40	NonLiqfble.
CPT-2	16.82	11	16.3	1.03	135	2184	1817	16.7	16.7	6.77	3.0	61.3	0.80	66.9	83.7	0.413	0.134	0.161	0.39	NonLiqfble.
CPT-2	16.9	11	16.2	1.05	135	2195	1822	16.6	16.6	6.95	3.1	62.1	0.80	66.4	83.0	0.414	0.133	0.160	0.39	NonLiqfble.
CPT-2	16.97	11	15.8	1.06	135	2204	1828	16.2	16.1	7.21	3.1	63.5	0.80	64.7	80.9	0.414	0.129	0.155	0.37	NonLiqfble.
CPT-2	17.05	11	15.9	1.06	135	2215	1833	16.2	16.1	7.17	3.1	63.3	0.80	65.0	81.2	0.415	0.130	0.156	0.38	NonLiqfble.
CPT-2	17.13	11	16.3	1.05	135	2226	1839	16.6	16.5	6.91	3.1	62.1	0.80	66.5	83.2	0.416	0.133	0.160	0.39	NonLiqfble.
CPT-2	17.2	11	16.1	1.07	135	2236	1844	16.4	16.2	7.14	3.1	63.1	0.80	65.6	82.0	0.416	0.131	0.158	0.38	NonLiqfble.
CPT-2	17.28	11	16.3	1.08	135	2246	1850	16.6	16.4	7.12	3.1	62.8	0.80	66.3	82.9	0.417	0.133	0.160	0.38	NonLiqfble.
CPT-2	17.36	11	16.1	1.04	135	2257	1856	16.4	16.1	6.95	3.1	62.7	0.80	65.4	81.8	0.418	0.131	0.157	0.38	NonLiqfble.
CPT-2	17.44	11	16	1	125	2268	1862	16.2	16.0	6.73	3.1	62.3	0.80	64.9	81.1	0.418	0.130	0.156	0.37	NonLiqfble.
CPT-2	17.51	11	15.9	1	125	2277	1866	16.1	15.8	6.77	3.1	62.6	0.80	64.4	80.5	0.419	0.129	0.154	0.37	NonLiqfble.
CPT-2	17.58	11	15.6	1	125	2285	1870	15.8	15.5	6.92	3.1	63.6	0.80	63.1	78.9	0.420	0.126	0.151	0.36	NonLiqfble.
CPT-2	17.66	11	15.4	1.01	125	2295	1875	15.6	15.2	7.09	3.1	64.5	0.80	62.2	77.8	0.420	0.124	0.149	0.35	NonLiqfble.
CPT-2	17.74	11	15.5	1.03	125	2305	1880	15.6	15.3	7.18	3.1	64.6	0.80	62.6	78.2	0.421	0.124	0.149	0.35	NonLiqfble.
CPT-2	17.82	11	15.5	1.04	125	2315	1885	15.6	15.2	7.25	3.1	64.9	0.80	62.5	78.1	0.422	0.124	0.149	0.35	NonLiqfble.
CPT-2	17.9	11	15.8	1.04	135	2325	1890	15.9	15.5	7.11	3.1	64.1	0.80	63.6	79.5	0.422	0.127	0.152	0.36	NonLiqfble.
CPT-2	17.97	11	15.9	1.03	135	2335	1896	16.0	15.5	6.99	3.1	63.7	0.80	63.9	79.9	0.423	0.127	0.153	0.36	NonLiqfble.
CPT-2	18.05	11	15.9	1.03	135	2346	1901	16.0	15.5	6.99	3.1	63.8	0.80	63.8	79.8	0.424	0.127	0.153	0.36	NonLiqfble.
CPT-2	18.13	11	15.7	1.01	125	2356	1907	15.7	15.2	6.96	3.1	64.0	0.80	62.9	78.6	0.424	0.125	0.150	0.35	NonLiqfble.
CPT-2	18.21	11	15	0.99	125	2366	1912	15.0	14.4	7.17	3.1	65.9	0.80	60.0	75.0	0.425	0.119	0.143	0.34	NonLiqfble.
CPT-2	18.28	11	15.2	0.98	125	2375	1917	15.2	14.6	6.99	3.1	65.1	0.80	60.8	76.0	0.426	0.121	0.145	0.34	NonLiqfble.
CPT-2	18.36	11	14.9	0.78	125	2385	1922	14.9	14.3	5.69	3.0	61.5	0.80	59.5	74.4	0.426	0.118	0.142	0.33	NonLiqfble.
CPT-2	18.44	11	15.2	1.05	125	2395	1927	15.2	14.5	7.50	3.1	66.7	0.80	60.6	75.8	0.427	0.120	0.145	0.34	NonLiqfble.
CPT-2	18.51	11	15.3	1.07	135	2404	1931	15.2	14.6	7.59	3.1	66.9	0.80	60.9	76.2	0.427	0.121	0.145	0.34	NonLiqfble.
CPT-2	18.59	11	15.8	1.07	135	2415	1937	15.7	15.1	7.33	3.1	65.4	0.80	62.8	78.5	0.428	0.125	0.150	0.35	NonLiqfble.
CPT-2	18.64	11	13.5	1.08	125	2422	1940	13.4	12.7	8.79	3.2	73.6	0.80	53.6	67.0	0.428	0.108	0.130	0.30	NonLiqfble.
CPT-2	18.7	11	15.1	1.08	135	2429	1944	15.0	14.3	7.78	3.1	67.9	0.80	59.9	74.9	0.429	0.119	0.143	0.33	NonLiqfble.
CPT-2	18.77	11	15.7	1.07	135	2438	1949	15.6	14.9	7.39	3.1	65.9	0.80	62.2	77.8	0.430	0.124	0.149	0.35	NonLiqfble.
CPT-2	18.85	11	16.2	1.06	135	2449	1955	16.0	15.3	7.08	3.1	64.3	0.80	64.1	80.2	0.430	0.128	0.153	0.36	NonLiqfble.
CPT-2	18.93	11	16.9	1.05	135	2460	1961	16.7	16.0	6.70	3.1	62.2	0.80	66.8	83.5	0.431	0.134	0.161	0.37	NonLiqfble.
CPT-2	19.01	11	16.1	1.06	135	2471	1967	15.9	15.1	7.13	3.1	64.7	0.80	63.5	79.4	0.431	0.127	0.152	0.35	NonLiqfble.
CPT-2	19.08	11	15.9	1.09	135	2480	1972	15.7	14.9	7.44	3.1	66.0	0.80	62.7	78.3	0.432	0.125	0.150	0.35	NonLiqfble.
CPT-2	19.16	11	15.8	1.11	135	2491	1978	15.5	14.7	7.63	3.1	66.8	0.80	62.2	77.7	0.433	0.124	0.148	0.34	NonLiqfble.
CPT-2	19.24	11	14.5	1.12	135	2502	1983	14.2	13.4	8.45	3.2	71.4	0.80	57.0	71.2	0.433	0.114	0.136	0.31	NonLiqfble.
CPT-2	19.32	11	13.2	1.08	125	2513	1989	12.9	12.0	9.04	3.2	75.6	0.80	51.8	64.7	0.434	0.105	0.126	0.29	NonLiqfble.
CPT-2	19.39	11	12.6	1.02	125	2521	1994	12.3	11.4	9.00	3.2	76.9	0.80	49.4	61.7	0.434	0.102	0.122	0.28	NonLiqfble.
CPT-2	19.47	11	12.7	0.99	125	2531	1999	12.4	11.4	8.66	3.2	75.8	0.80	49.7	62.1	0.435	0.102	0.123	0.28	NonLiqfble.
CPT-2	19.54	11	12.8	0.97	125	2540	2003	12.5	11.5	8.41	3.2	75.0	0.80	50.1	62.6	0.435	0.103	0.123	0.28	NonLiqfble.
CPT-2	19.62	11	13.3	0.94	125	2550	2008	13.0	12.0	7.82	3.2	72.3	0.80	51.9	64.9	0.436	0.105	0.127	0.29	NonLiqfble.
CPT-2	19.7	11	13.9	0.91	125	2560	2013	13.6	12.5	7.21	3.2	69.4	0.80	54.2	67.8	0.437	0.109	0.131	0.30	NonLiqfble.
CPT-2	19.78	11	13	0.89	125	2570	2018	12.7	11.6	7.60	3.2	72.5	0.80	50.6	63.3	0.437	0.104	0.124	0.28	NonLiqfble.
CPT-2	19.85	11	13.6	0.86	125	2579	2022	13.2	12.2	6.99	3.2	69.5	0.80	52.9	66.2	0.438	0.107	0.128	0.29	NonLiqfble.
CPT-2	19.93	11	13.4	0.85	125	2589	2027	13.0	11.9	7.02	3.2	70.1	0.80	52.1	65.1	0.438	0.106	0.127	0.29	NonLiqfble.
CPT-2	20	11	12.5	0.84	125	2598	2032	12.1	11.0	7.50	3.2	73.5	0.80	48.5	60.7	0.430	0.101	0.121	0.28	NonLiqfble.
CPT-2	20.08	11	12.7	0.78	125	2608	2037	12.3	11.2	6.84	3.2	71.1	0.80	49.3	61.6	0.431	0.102	0.122	0.28	NonLiqfble.
CPT-2	20.16	11	12	0.76	125	2618	2042	11.6	10.5	7.11	3.2	73.7	0.80	46.5	58.1	0.431	0.098	0.118	0.27	NonLiqfble.
CPT-2	20.23	11	11.4	0.74	125	2626	2046	11.0	9.9	7.34	3.2	76.0	0.80	44.1	55.1	0.432	0.096	0.115	0.27	NonLiqfble.
CPT-2	20.31	11	11.6	0.72	125	2636	2051	11.2	10.0	7.00	3.2	74.5	0.80	44.8	56.0	0.432	0.096	0.116	0.27	NonLiqfble.
CPT-2	20.39	11	11.7	0.7	125	2646	2056	11.3	10.1	6.75	3.2	73.5	0.80	45.2	56.4	0.433	0.097	0.116	0.27	NonLiqfble.
CPT-2	20.46	11	11.8	0.69	125	2655	2061	11.4	10.2	6.59	3.2	72.8	0.80	45.5	56.9	0.433	0.097	0.117	0.27	NonLiqfble.
CPT-2	20.54	11	11.1	0.7	125	2665	2066	10.7	9.5	7.17	3.2	76.5	0.80	42.7	53.4	0.434	0.094	0.113	0.26	NonLiqfble.
CPT-2	20.62	11	11.8	0.72	125	2675	2071	11.3	10.1	6.88	3.2	73.9	0.80	45.4	56.7	0.435	0.097	0.116	0.27	NonLiqfble.
CPT-2	20.7	11	12	0.73	125	2685	2076	11.5	10.3	6.85	3.2	73.4	0.80	46.1	57.6	0.435	0.098	0.117	0.27	NonLiqfble.
CPT-2	20.77	11</																		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _(1N)	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	AQ _(1N)	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-2	21.23	11	11	0.72	125	2751	2109	10.5	9.1	7.48	3.3	78.5	0.80	41.9	52.4	0.439	0.093	0.112	0.26	NonLiqfble.
CPT-2	21.31	11	10.3	0.71	125	2761	2114	9.8	8.4	7.96	3.3	82.1	0.80	39.2	49.0	0.439	0.091	0.109	0.25	NonLiqfble.
CPT-2	21.39	11	11.3	0.72	125	2771	2119	10.7	9.4	7.26	3.3	77.1	0.80	43.0	53.7	0.440	0.094	0.113	0.26	NonLiqfble.
CPT-2	21.47	11	10.8	0.73	125	2781	2124	10.3	8.9	7.76	3.3	80.1	0.80	41.0	51.3	0.440	0.093	0.111	0.25	NonLiqfble.
CPT-2	21.54	11	11	0.71	125	2790	2128	10.4	9.0	7.39	3.3	78.5	0.80	41.7	52.2	0.441	0.093	0.112	0.25	NonLiqfble.
CPT-2	21.62	11	10.2	0.69	125	2800	2133	9.7	8.2	7.84	3.3	82.4	0.80	38.7	48.3	0.442	0.090	0.109	0.25	NonLiqfble.
CPT-2	21.7	11	9.9	0.7	125	2810	2138	9.4	7.9	8.24	3.3	84.6	0.80	37.5	46.8	0.442	0.090	0.107	0.24	NonLiqfble.
CPT-2	21.77	11	10.6	0.68	125	2819	2143	10.0	8.6	7.40	3.3	79.9	0.80	40.1	50.1	0.443	0.092	0.110	0.25	NonLiqfble.
CPT-2	21.84	11	10.7	0.65	125	2828	2147	10.1	8.6	7.00	3.3	78.4	0.80	40.4	50.5	0.443	0.092	0.110	0.25	NonLiqfble.
CPT-2	21.92	11	9.9	0.64	125	2838	2152	9.3	7.9	7.55	3.3	82.8	0.80	37.4	46.7	0.444	0.089	0.107	0.24	NonLiqfble.
CPT-2	21.99	11	10.6	0.67	125	2846	2156	10.0	8.5	7.30	3.3	79.8	0.80	40.0	49.9	0.444	0.092	0.110	0.25	NonLiqfble.
CPT-2	22.07	11	10.8	0.67	125	2856	2161	10.2	8.7	7.15	3.3	78.8	0.80	40.7	50.8	0.445	0.092	0.111	0.25	NonLiqfble.
CPT-2	22.15	11	10.6	0.66	125	2866	2166	10.0	8.5	7.20	3.3	79.7	0.80	39.9	49.8	0.445	0.092	0.110	0.25	NonLiqfble.
CPT-2	22.22	11	9.8	0.65	125	2875	2171	9.2	7.7	7.77	3.3	84.1	0.80	36.8	46.0	0.445	0.089	0.107	0.24	NonLiqfble.
CPT-2	22.3	11	9.9	0.64	125	2885	2176	9.3	7.8	7.57	3.3	83.2	0.80	37.1	46.4	0.446	0.089	0.107	0.24	NonLiqfble.
CPT-2	22.38	11	9.4	0.61	125	2895	2181	8.8	7.3	7.67	3.4	85.4	0.80	35.2	44.0	0.447	0.088	0.106	0.24	NonLiqfble.
CPT-2	22.46	11	9.5	0.57	125	2905	2186	8.9	7.4	7.08	3.3	83.3	0.80	35.6	44.5	0.447	0.088	0.106	0.24	NonLiqfble.
CPT-2	22.53	11	7.7	0.52	115	2914	2190	7.2	5.7	8.33	3.5	94.9	0.80	28.8	36.0	0.447	0.084	0.101	0.23	NonLiqfble.
CPT-2	22.61	11	7.9	0.46	115	2923	2194	7.4	5.9	7.15	3.4	90.2	0.80	29.5	36.9	0.448	0.085	0.102	0.23	NonLiqfble.
CPT-2	22.69	11	8.3	0.41	115	2932	2199	7.7	6.2	6.00	3.3	84.5	0.80	31.0	38.7	0.449	0.085	0.102	0.23	NonLiqfble.
CPT-2	22.77	11	7.7	0.37	115	2942	2203	7.2	5.7	5.94	3.4	87.1	0.80	28.7	35.9	0.449	0.084	0.101	0.23	NonLiqfble.
CPT-2	22.85	11	7.8	0.35	115	2951	2207	7.3	5.7	5.53	3.3	85.1	0.80	29.1	36.3	0.450	0.084	0.101	0.23	NonLiqfble.
CPT-2	22.92	11	7.6	0.36	115	2959	2211	7.1	5.5	5.88	3.4	87.5	0.80	28.3	35.4	0.450	0.084	0.101	0.22	NonLiqfble.
CPT-2	23	11	8.1	0.41	115	2968	2215	7.5	6.0	6.20	3.4	86.4	0.80	30.1	37.7	0.451	0.085	0.102	0.23	NonLiqfble.
CPT-2	23.07	11	8.5	0.45	115	2976	2219	7.9	6.3	6.42	3.4	85.5	0.80	31.6	39.5	0.451	0.086	0.103	0.23	NonLiqfble.
CPT-2	23.15	11	9.6	0.5	115	2985	2223	8.9	7.3	6.17	3.3	80.4	0.80	35.6	44.5	0.452	0.088	0.106	0.23	NonLiqfble.
CPT-2	23.23	11	9	0.54	115	2994	2227	8.3	6.7	7.20	3.4	86.2	0.80	33.4	41.7	0.452	0.087	0.104	0.23	NonLiqfble.
CPT-2	23.3	11	10	0.55	125	3003	2231	9.3	7.6	6.47	3.3	80.2	0.80	37.1	46.3	0.453	0.089	0.107	0.24	NonLiqfble.
CPT-2	23.38	11	9.1	0.54	125	3013	2236	8.4	6.8	7.11	3.4	85.7	0.80	33.7	42.1	0.453	0.087	0.104	0.23	NonLiqfble.
CPT-2	23.46	11	9	0.52	115	3023	2241	8.3	6.7	6.94	3.4	85.6	0.80	33.3	41.6	0.454	0.087	0.104	0.23	NonLiqfble.
CPT-2	23.53	11	9.1	0.5	115	3031	2244	8.4	6.8	6.59	3.3	84.1	0.80	33.6	42.0	0.454	0.087	0.104	0.23	NonLiqfble.
CPT-2	23.61	11	8.4	0.49	115	3040	2249	7.8	6.1	7.12	3.4	88.9	0.80	31.0	38.8	0.455	0.085	0.102	0.23	NonLiqfble.
CPT-2	23.69	11	8.5	0.45	115	3049	2253	7.8	6.2	6.45	3.4	86.2	0.80	31.3	39.2	0.455	0.086	0.103	0.23	NonLiqfble.
CPT-2	23.77	11	7.7	0.42	115	3058	2257	7.1	5.5	6.81	3.4	91.3	0.80	28.4	35.5	0.456	0.084	0.101	0.22	NonLiqfble.
CPT-2	23.84	11	7.3	0.39	115	3066	2261	6.7	5.1	6.76	3.4	93.3	0.80	26.9	33.6	0.456	0.084	0.100	0.22	NonLiqfble.
CPT-2	23.92	11	8.3	0.35	115	3075	2265	7.6	6.0	5.18	3.3	82.4	0.80	30.5	38.2	0.457	0.085	0.102	0.22	NonLiqfble.
CPT-2	24	11	7.9	0.34	115	3085	2269	7.3	5.6	5.35	3.3	85.1	0.80	29.0	36.3	0.457	0.084	0.101	0.22	NonLiqfble.
CPT-2	24.07	11	8.8	0.35	115	3093	2273	8.1	6.4	4.83	3.3	79.0	0.80	32.3	40.4	0.458	0.086	0.103	0.23	NonLiqfble.
CPT-2	24.15	11	8.7	0.37	115	3102	2277	8.0	6.3	5.18	3.3	81.0	0.80	31.9	39.9	0.458	0.086	0.103	0.22	NonLiqfble.
CPT-2	24.23	11	9.8	0.38	115	3111	2281	9.0	7.2	4.61	3.2	74.5	0.80	35.9	44.9	0.459	0.088	0.106	0.23	NonLiqfble.
CPT-2	24.3	11	8.7	0.38	115	3119	2285	8.0	6.2	5.32	3.3	81.7	0.80	31.9	39.8	0.459	0.086	0.103	0.22	NonLiqfble.
CPT-2	24.38	11	7.9	0.39	115	3128	2289	7.2	5.5	6.16	3.4	88.6	0.80	28.9	36.1	0.460	0.084	0.101	0.22	NonLiqfble.
CPT-2	24.46	11	9.5	0.36	115	3138	2293	8.7	6.9	4.54	3.2	75.5	0.80	34.7	43.4	0.460	0.088	0.105	0.23	NonLiqfble.
CPT-2	24.53	11	8.8	0.34	115	3146	2297	8.0	6.3	4.70	3.3	78.9	0.80	32.1	40.2	0.461	0.086	0.103	0.22	NonLiqfble.
CPT-2	24.61	11	9.9	0.34	115	3155	2301	9.0	7.2	4.09	3.2	72.1	0.80	36.1	45.1	0.461	0.089	0.106	0.23	NonLiqfble.
CPT-2	24.69	11	9.3	0.34	115	3164	2305	8.5	6.7	4.41	3.2	75.8	0.80	33.9	42.4	0.462	0.087	0.104	0.23	NonLiqfble.
CPT-2	24.77	11	8.9	0.34	115	3173	2310	8.1	6.3	4.65	3.3	78.5	0.80	32.4	40.5	0.462	0.086	0.103	0.22	NonLiqfble.
CPT-2	24.84	11	9.4	0.36	115	3181	2313	8.6	6.7	4.61	3.2	76.5	0.80	34.2	42.8	0.463	0.087	0.105	0.23	NonLiqfble.
CPT-2	24.92	11	10	0.4	115	3190	2317	9.1	7.2	4.76	3.2	75.1	0.80	36.4	45.4	0.463	0.089	0.106	0.23	NonLiqfble.
CPT-2	25	11	10.4	0.42	115	3200	2322	9.4	7.6	4.77	3.2	73.9	0.80	37.8	47.2	0.464	0.090	0.108	0.23	NonLiqfble.
CPT-2	25.07	11	10.9	0.44	115	3208	2325	9.9	8.0	4.73	3.2	72.3	0.80	39.6	49.5	0.464	0.091	0.109	0.24	NonLiqfble.
CPT-2	25.15	11	11.3	0.45	125	3217	2330	10.2	8.3	4.64	3.2	70.9	0.80	41.0	51.2	0.464	0.092	0.111	0.24	NonLiqfble.
CPT-2	25.23	11	11.5	0.45	125	3227	2335	10.4	8.5	4.55	3.2	70.0	0.80	41.7	52.1	0.465	0.093	0.112	0.24	NonLiqfble.
CPT-2	25.3	11	11.2	0.43	115	3236	2339	10.1	8.2	4.49	3.2	70.6	0.80	40.5	50.7	0.465	0.092	0.111	0.24	NonLiqfble.
CPT-2	25.38	11	10.4	0.42	115	3245	2343	9.4	7.5	4.79	3.2	74.3	0.80	37.6	47.0	0.466	0.090	0.108	0.23	NonLiqfble.
CPT-2	25.46	11	10.6	0.4	115	3254	2347	9.6	7.6	4.46	3.2	72.3	0.80	38.3	47.9	0.466	0.090	0.108	0.23	NonLiqfble.
CPT-2	25.54	11	10.8	0.4	115	3263	2352	9.7	7.8	4.36	3.2	71.4	0.80	39.0	48.7	0.467	0.091	0.109	0.23	NonLiqfble.
CPT-2	25.62	11	10	0.39	115	3272	2356	9.0	7.1	4.66	3.2	75.3	0.80	36.1	45.1	0.467	0.089	0.106	0.23	NonLiqfble.
CPT-2	25.69	11	10.4	0.41	115	3280	2359	9.4	7.4	4.68	3.2	74.1	0.80	37.5	46.8	0.468	0.090	0.107	0.23	NonLiqfble.
CPT-2	25.77	11	10.1	0.43	115	3290	2364	9.1	7.2	5.09	3.2	76.8	0.80	36.4	45.4	0.468	0.089	0.106	0.23	NonLiqfble.
CPT-2	25.85	11	11.4	0.44	115	3299	2368	10.3	8.2	4.51	3.2	70.6	0.80	41.0	51.3	0.469	0.093	0.111	0.24	NonLiqfble.
CPT-2	25.93	11	10.4	0.44	115	3308	2372	9.3	7.4	5.03	3.2	75.8	0.80	37.4	46.7	0.469	0.089	0.107	0.23	NonLiqfble.
CPT-2	26.01	11	10.6	0.45	115	3317	2376	9.5	7											

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{tip}	$(q_{tip})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	26.4	11	11.1	0.39	115	3363	2398	9.9	7.9	4.14	3.2	70.2	0.80	39.7	49.6	0.472	0.091	0.110	0.23	NonLiqfble
CPT-2	26.48	11	10.4	0.37	115	3372	2402	9.3	7.3	4.25	3.2	72.8	0.80	37.1	46.4	0.472	0.089	0.107	0.23	NonLiqfble
CPT-2	26.55	11	10.4	0.38	115	3380	2405	9.3	7.2	4.36	3.2	73.4	0.80	37.1	46.4	0.473	0.089	0.107	0.23	NonLiqfble
CPT-2	26.63	11	10.7	0.4	115	3389	2410	9.5	7.5	4.44	3.2	72.9	0.80	38.1	47.7	0.473	0.090	0.108	0.23	NonLiqfble
CPT-2	26.71	11	12	0.42	115	3399	2414	10.7	8.5	4.08	3.1	67.7	0.80	42.7	53.4	0.474	0.094	0.113	0.24	NonLiqfble
CPT-2	26.78	11	11.2	0.44	115	3407	2418	10.0	7.9	4.63	3.2	72.4	0.80	39.9	49.8	0.474	0.092	0.110	0.23	NonLiqfble
CPT-2	26.86	11	11.7	0.46	125	3416	2422	10.4	8.2	4.60	3.2	70.9	0.80	41.6	52.0	0.474	0.093	0.112	0.24	NonLiqfble
CPT-2	26.94	11	12	0.46	125	3426	2427	10.7	8.5	4.47	3.2	69.6	0.80	42.6	53.3	0.475	0.094	0.113	0.24	NonLiqfble
CPT-2	27.02	11	11.9	0.46	125	3436	2432	10.6	8.4	4.52	3.2	70.1	0.80	42.2	52.8	0.475	0.094	0.112	0.24	NonLiqfble
CPT-2	27.09	11	12.4	0.45	125	3445	2436	11.0	8.8	4.21	3.1	67.6	0.80	44.0	55.0	0.476	0.095	0.115	0.24	NonLiqfble
CPT-2	27.17	11	11.8	0.48	125	3455	2441	10.4	8.2	4.77	3.2	71.6	0.80	41.8	52.2	0.476	0.093	0.112	0.24	NonLiqfble
CPT-2	27.25	11	11.5	0.49	125	3465	2446	10.2	8.0	5.02	3.2	73.5	0.80	40.7	50.9	0.476	0.092	0.111	0.23	NonLiqfble
CPT-2	27.33	11	11.8	0.51	125	3475	2451	10.4	8.2	5.07	3.2	73.0	0.80	41.7	52.1	0.477	0.093	0.112	0.23	NonLiqfble
CPT-2	27.4	11	11.4	0.53	125	3483	2456	10.1	7.9	5.49	3.2	75.8	0.80	40.3	50.3	0.477	0.092	0.110	0.23	NonLiqfble
CPT-2	27.48	11	12.8	0.59	125	3493	2461	11.3	9.0	5.34	3.2	71.6	0.80	45.2	56.5	0.477	0.097	0.116	0.24	NonLiqfble
CPT-2	27.56	11	12.7	0.72	125	3503	2466	11.2	8.9	6.58	3.2	76.3	0.80	44.8	56.0	0.478	0.096	0.116	0.24	NonLiqfble
CPT-2	27.64	11	14.3	0.85	125	3513	2471	12.6	10.1	6.78	3.2	73.4	0.80	50.4	62.9	0.478	0.103	0.124	0.26	NonLiqfble
CPT-2	27.72	11	20.7	0.97	135	3523	2476	18.2	15.3	5.12	3.0	57.9	0.80	72.8	91.0	0.479	0.150	0.180	0.38	NonLiqfble
CPT-2	27.79	11	55.8	0.84	125	3533	2481	49.0	43.5	1.55	2.3	23.0	0.48	45.2	94.2	0.479	0.158	0.189	0.40	Liquefaction
CPT-2	27.87	11	87.1	0.92	125	3543	2486	76.4	68.6	1.08	2.1	14.6	0.26	26.3	102.7	0.479	0.181	0.217	0.45	Liquefaction
CPT-2	27.94	11	107.6	1.17	125	3552	2490	94.3	85.0	1.11	2.0	12.8	0.21	24.6	119.0	0.480	0.237	0.284	0.59	Liquefaction
CPT-2	28.02	11	110.9	1.45	135	3562	2495	97.1	87.4	1.33	2.0	13.9	0.24	30.3	127.5	0.480	0.273	0.327	0.68	Liquefaction
CPT-2	28.09	11	116.6	1.32	125	3571	2500	102.0	91.8	1.15	2.0	12.4	0.20	24.9	127.0	0.480	0.270	0.324	0.68	Liquefaction
CPT-2	28.17	11	124.7	1.35	125	3581	2505	109.0	98.1	1.10	1.9	11.5	0.17	22.7	131.7	0.481	0.292	0.351	0.73	Liquefaction
CPT-2	28.24	11	138.1	1.48	125	3590	2510	120.6	108.6	1.09	1.9	10.5	0.15	21.0	141.6	0.481	0.344	0.413	0.86	Liquefaction
CPT-2	28.31	11	159	1.49	125	3598	2514	138.8	125.0	0.95	1.8	8.6	0.10	14.7	153.4	0.481	0.416	0.499	1.04	Low F.S.
CPT-2	28.41	11	174.6	1.6	125	3611	2520	152.2	137.1	0.93	1.8	7.8	0.07	12.3	164.5	0.482	0.494	0.592	1.23	
CPT-2	28.48	11	187.5	1.63	125	3620	2525	163.3	147.0	0.88	1.7	7.0	0.05	9.3	172.6	0.482	0.558	0.670	1.39	
CPT-2	28.56	11	196.4	1.99	125	3630	2530	170.9	153.8	1.02	1.8	7.6	0.07	13.0	183.8	0.483	0.658	0.789	1.64	
CPT-2	28.63	11	199.6	1.96	125	3638	2534	173.5	156.0	0.99	1.8	7.4	0.06	11.6	185.1	0.483	0.670	0.804	1.67	
CPT-2	28.71	11	195.8	1.84	125	3648	2539	170.0	152.7	0.95	1.8	7.2	0.06	10.8	180.8	0.483	0.629	0.755	1.56	
CPT-2	28.78	11	197	1.93	125	3657	2543	170.9	153.4	0.99	1.8	7.5	0.07	12.0	182.9	0.484	0.649	0.779	1.61	
CPT-2	28.86	11	207.6	1.46	115	3667	2548	179.9	161.4	0.71	1.7	5.3	0.01	1.5	181.4	0.484	0.635	0.762	1.57	
CPT-2	28.93	11	220.1	1.57	115	3675	2552	190.6	171.0	0.72	1.6	5.0	0.00	0.2	190.8	0.484	0.726	0.871	1.80	
CPT-2	29	11	231.6	1.37	115	3683	2556	200.4	179.7	0.60	1.6	3.9	0.00	0.0	200.4	0.485	0.829	0.995	2.05	
CPT-2	29.08	11	236.2	1.35	115	3693	2560	204.3	183.0	0.58	1.6	3.7	0.00	0.0	204.3	0.485	0.873	1.047	2.16	
CPT-2	29.15	11	241.1	1.36	115	3701	2564	208.3	186.6	0.57	1.5	3.5	0.00	0.0	208.3	0.485	0.921	1.105	2.28	
CPT-2	29.23	11	244.8	1.47	115	3710	2568	211.4	189.1	0.61	1.6	3.7	0.00	0.0	211.4	0.486	0.958	1.150	2.37	
CPT-2	29.3	11	241.1	1.81	115	3718	2572	208.0	186.0	0.76	1.6	4.8	0.00	0.0	208.0	0.486	0.917	1.101	2.26	
CPT-2	29.37	11	235.6	2.06	125	3726	2575	203.1	181.5	0.88	1.7	5.8	0.02	4.2	207.3	0.487	0.909	1.091	2.24	
CPT-2	29.44	11	241.2	2.47	125	3735	2580	207.8	185.5	1.03	1.7	6.5	0.04	8.9	216.7	0.487	1.026	1.232	2.53	
CPT-2	29.51	11	248.8	2.37	125	3743	2584	214.2	191.0	0.96	1.7	5.9	0.03	5.5	219.7	0.487	1.066	1.279	2.63	
CPT-2	29.58	11	249.5	2.31	125	3752	2588	214.6	191.3	0.93	1.7	5.8	0.02	4.5	219.1	0.488	1.058	1.270	2.61	
CPT-2	29.65	11	260.5	2.53	125	3761	2593	223.8	199.4	0.98	1.7	5.8	0.02	5.0	228.8	0.488	1.194	1.433	2.94	
CPT-2	29.72	11	260.3	2.09	125	3770	2597	223.5	198.9	0.81	1.6	4.8	0.00	0.0	223.5	0.488	1.118	1.342	2.75	
CPT-2	29.79	11	259.7	1.97	115	3778	2601	222.8	198.1	0.76	1.6	4.5	0.00	0.0	222.8	0.488	1.108	1.330	2.72	
CPT-2	29.86	11	272.4	1.87	115	3786	2605	233.5	207.6	0.69	1.6	3.8	0.00	0.0	233.5	0.489	1.264	1.517	3.10	
CPT-2	29.93	11	279.5	1.77	115	3794	2609	239.4	212.7	0.64	1.5	3.3	0.00	0.0	239.4	0.489	1.356	1.628	3.33	
CPT-2	30	11	293.6	2.09	115	3803	2613	251.3	223.2	0.72	1.6	3.6	0.00	0.0	251.3	0.469	1.556	1.868	3.98	
CPT-2	30.06	11	295.4	2.5	125	3809	2616	252.7	224.3	0.85	1.6	4.4	0.00	0.0	252.7	0.469	1.581	1.897	4.04	
CPT-2	30.13	11	297	2.68	125	3818	2620	253.9	225.2	0.91	1.6	4.8	0.00	0.0	253.9	0.470	1.602	1.922	4.09	
CPT-2	30.2	11	292.8	2.48	125	3827	2624	250.1	221.6	0.85	1.6	4.5	0.00	0.0	250.1	0.470	1.534	1.841	3.92	
CPT-2	30.27	11	290.5	2.47	125	3836	2629	247.9	219.5	0.86	1.6	4.6	0.00	0.0	247.9	0.470	1.497	1.796	3.82	
CPT-2	30.34	11	268.5	2.35	125	3844	2633	228.9	202.4	0.88	1.6	5.2	0.00	1.0	229.9	0.471	1.210	1.452	3.09	
CPT-2	30.4	11	266.9	2.2	125	3852	2637	227.4	200.9	0.83	1.6	4.9	0.00	0.0	227.4	0.471	1.174	1.409	2.99	
CPT-2	30.47	11	265.3	2.06	125	3861	2641	225.9	199.3	0.78	1.6	4.6	0.00	0.0	225.9	0.471	1.152	1.382	2.93	
CPT-2	30.53	11	269.1	1.89	115	3868	2645	228.9	201.9	0.71	1.6	4.1	0.00	0.0	228.9	0.471	1.196	1.435	3.04	
CPT-2	30.6	11	285.8	2.17	115	3876	2649	243.0	214.2	0.76	1.6	4.1	0.00	0.0	243.0	0.472	1.414	1.697	3.60	
CPT-2	30.67	11	297.6	2.41	125	3884	2652	252.8	222.8	0.82	1.6	4.3	0.00	0.0	252.8	0.472	1.583	1.900	4.02	
CPT-2	30.74	11	308.2	2.31	115	3893	2657	261.6	230.4	0.75	1.6	3.7	0.00	0.0	261.6	0.472	1.745	2.094	4.43	
CPT-2	30.8	11	306.2	2.13	115	3900	2660	259.8	228.7	0.70	1.5	3.4	0.00	0.0	259.8	0.473	1.710	2.052	4.34	
CPT-2	30.87	11	285	2.06	115	3908	2664	241.6	212.4	0.73	1.6	3.9	0.00	0.0	241.6	0.473	1.392	1.670	3.53	
CPT-2	30.94	11	269.8	1.93	115	3916	2667													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	ΔQ_{c1N}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-2	31.28	11	251.3	1.49	115	3955	2685	212.2	185.6	0.60	1.6	3.7	0.00	0.0	212.2	0.475	0.968	1.162	2.45	
CPT-2	31.34	11	252	1.23	105	3962	2688	212.7	185.9	0.49	1.5	2.9	0.00	0.0	212.7	0.475	0.974	1.169	2.46	
CPT-2	31.41	11	241.7	1.2	105	3969	2691	203.8	178.1	0.50	1.5	3.2	0.00	0.0	203.8	0.475	0.868	1.041	2.19	
CPT-2	31.48	11	240.8	1.44	115	3977	2694	203.0	172.2	0.60	1.6	4.0	0.00	0.0	203.0	0.476	0.858	1.029	2.16	
CPT-2	31.54	11	235	1.4	115	3984	2698	198.0	172.7	0.60	1.6	4.1	0.00	0.0	198.0	0.476	0.802	0.962	2.02	
CPT-2	31.61	11	244.9	1.35	115	3992	2701	206.2	179.8	0.56	1.6	3.6	0.00	0.0	206.2	0.477	0.895	1.074	2.25	
CPT-2	31.67	11	205.8	1.21	115	3999	2704	173.2	150.7	0.59	1.6	4.9	0.00	0.0	173.2	0.477	0.563	0.675	1.42	
CPT-2	31.74	11	217.2	1.15	115	4007	2708	182.6	158.9	0.53	1.6	4.1	0.00	0.0	182.6	0.477	0.646	0.776	1.63	
CPT-2	31.81	11	217.4	1.15	115	4015	2712	182.7	158.8	0.53	1.6	4.1	0.00	0.0	182.7	0.477	0.647	0.776	1.63	
CPT-2	31.88	11	205.2	1.06	115	4023	2715	172.3	149.6	0.52	1.6	4.3	0.00	0.0	172.3	0.477	0.556	0.667	1.40	
CPT-2	31.95	11	196.1	0.96	105	4031	2719	164.5	142.7	0.49	1.6	4.4	0.00	0.0	164.5	0.478	0.494	0.593	1.24	
CPT-2	32.02	11	179.1	0.94	105	4038	2722	150.2	130.1	0.53	1.7	5.3	0.01	1.0	151.2	0.478	0.402	0.482	1.01	Low F.S.
CPT-2	32.09	11	163.6	0.83	105	4045	2725	137.1	118.5	0.51	1.7	5.7	0.02	2.6	139.8	0.478	0.334	0.401	0.84	Liquefaction
CPT-2	32.16	11	148.7	0.76	105	4053	2728	124.6	107.5	0.52	1.7	6.4	0.04	4.9	129.4	0.479	0.282	0.338	0.71	Liquefaction
CPT-2	32.23	11	140.9	0.74	105	4060	2731	118.0	101.7	0.53	1.7	6.9	0.05	6.4	124.4	0.479	0.259	0.311	0.65	Liquefaction
CPT-2	32.3	11	132.1	0.68	105	4068	2734	110.5	95.1	0.52	1.8	7.3	0.06	7.4	117.9	0.480	0.232	0.279	0.58	Liquefaction
CPT-2	32.37	11	123.2	0.42	95	4075	2737	103.0	88.5	0.35	1.7	6.2	0.03	3.3	106.3	0.480	0.192	0.230	0.48	Liquefaction
CPT-2	32.44	11	113.2	0.45	105	4082	2739	94.6	81.1	0.40	1.8	7.4	0.06	6.5	101.2	0.480	0.176	0.212	0.44	Liquefaction
CPT-2	32.51	11	104.8	1.09	125	4089	2742	87.6	74.9	1.06	2.0	13.6	0.23	26.1	113.7	0.481	0.217	0.260	0.54	Liquefaction
CPT-2	32.58	11	94.8	1.12	125	4098	2747	79.1	67.5	1.21	2.1	15.6	0.28	31.4	110.6	0.481	0.206	0.247	0.51	Liquefaction
CPT-2	32.66	11	101	1.23	125	4108	2752	84.2	71.9	1.24	2.1	15.2	0.27	31.7	116.0	0.481	0.225	0.270	0.56	Liquefaction
CPT-2	32.73	11	99.5	1.17	125	4116	2756	82.9	70.7	1.20	2.1	15.1	0.27	30.8	113.7	0.481	0.217	0.260	0.54	Liquefaction
CPT-2	32.8	11	105.3	1.14	125	4125	2760	87.7	74.8	1.10	2.0	13.9	0.24	27.5	115.1	0.482	0.222	0.266	0.55	Liquefaction
CPT-2	32.87	11	114	1.48	135	4134	2765	94.9	80.9	1.32	2.1	14.6	0.26	32.7	127.5	0.482	0.273	0.327	0.68	Liquefaction
CPT-2	32.94	11	114	1.07	125	4143	2770	94.8	80.8	0.96	2.0	12.2	0.19	22.4	117.2	0.482	0.230	0.276	0.57	Liquefaction
CPT-2	33.01	11	110.1	1.11	125	4152	2774	91.5	77.8	1.03	2.0	13.0	0.21	24.9	116.4	0.482	0.227	0.272	0.56	Liquefaction
CPT-2	33.08	11	95.7	1.09	125	4161	2779	79.4	67.4	1.16	2.1	15.4	0.28	30.4	109.9	0.483	0.203	0.244	0.51	Liquefaction
CPT-2	33.16	11	83	1.08	125	4171	2784	68.8	58.1	1.33	2.2	18.1	0.35	37.0	105.8	0.483	0.190	0.228	0.47	Liquefaction
CPT-2	33.23	11	78.2	1.31	135	4180	2788	64.8	54.6	1.72	2.3	21.2	0.43	49.3	114.1	0.483	0.218	0.262	0.54	Liquefaction
CPT-2	33.3	11	74	1.24	135	4189	2793	61.3	51.5	1.72	2.3	21.9	0.45	50.4	111.7	0.483	0.210	0.252	0.52	Liquefaction
CPT-2	33.37	11	75.2	1.16	135	4198	2798	62.2	52.2	1.59	2.3	20.9	0.42	45.9	108.1	0.484	0.198	0.237	0.49	Liquefaction
CPT-2	33.45	11	81.2	1.11	125	4209	2804	67.1	56.4	1.40	2.2	18.9	0.37	39.4	106.5	0.484	0.192	0.231	0.48	Liquefaction
CPT-2	33.52	11	83.3	0.92	125	4218	2808	68.8	57.8	1.13	2.1	16.8	0.31	31.5	100.3	0.484	0.174	0.208	0.43	Liquefaction
CPT-2	33.59	11	83.4	1.34	135	4227	2813	68.8	57.8	1.65	2.2	20.1	0.40	46.5	115.3	0.484	0.222	0.267	0.55	Liquefaction
CPT-2	33.67	11	77.6	1.6	135	4238	2819	64.0	53.5	2.12	2.3	23.6	0.50	63.1	127.1	0.485	0.271	0.325	0.67	Liquefaction
CPT-2	33.74	11	79.6	1.71	135	4247	2824	65.5	54.9	2.21	2.3	23.8	0.50	65.7	131.3	0.485	0.290	0.348	0.72	Liquefaction
CPT-2	33.81	11	71.3	2.02	135	4256	2829	58.7	48.9	2.92	2.5	28.6	0.63	99.7	158.4	0.485	0.449	0.539	1.11	Low F.S.
CPT-2	33.88	11	82.6	1.89	135	4266	2834	67.9	56.8	2.35	2.3	24.0	0.51	70.1	138.0	0.485	0.324	0.389	0.80	Liquefaction
CPT-2	33.96	11	104	1.66	135	4277	2840	85.4	71.7	1.63	2.2	17.6	0.34	43.4	128.8	0.485	0.279	0.334	0.69	Liquefaction
CPT-2	34.03	11	141.1	1.32	125	4286	2845	115.8	97.7	0.95	1.9	10.5	0.15	19.9	135.6	0.486	0.312	0.375	0.77	Liquefaction
CPT-2	34.1	11	155.9	1.34	125	4295	2849	127.8	107.9	0.87	1.8	9.2	0.11	15.9	143.7	0.486	0.356	0.427	0.88	Liquefaction
CPT-2	34.17	11	169.7	1.16	115	4304	2853	139.0	117.4	0.69	1.8	7.2	0.06	8.8	147.8	0.486	0.380	0.456	0.94	Liquefaction
CPT-2	34.25	11	185.3	1.18	115	4313	2858	151.7	128.1	0.64	1.7	6.3	0.03	5.3	156.9	0.486	0.439	0.527	1.08	Low F.S.
CPT-2	34.32	11	191.8	1.17	115	4321	2861	156.9	132.5	0.62	1.7	5.8	0.02	3.5	160.4	0.487	0.464	0.557	1.14	Low F.S.
CPT-2	34.39	11	197.5	1.4	115	4329	2865	161.4	136.3	0.72	1.7	6.4	0.04	6.2	167.7	0.487	0.519	0.622	1.28	
CPT-2	34.46	11	210.4	1.27	115	4337	2869	171.9	145.1	0.61	1.6	5.2	0.01	1.0	172.8	0.487	0.560	0.672	1.38	
CPT-2	34.54	11	233.4	1.47	115	4346	2873	190.5	160.9	0.64	1.6	4.8	0.00	0.0	190.5	0.488	0.723	0.868	1.78	
CPT-2	34.61	11	239	1.3	115	4354	2877	195.0	164.6	0.55	1.6	4.0	0.00	0.0	195.0	0.488	0.769	0.923	1.89	
CPT-2	34.68	11	231.1	1.21	115	4362	2880	188.4	158.9	0.53	1.6	4.1	0.00	0.0	188.4	0.488	0.702	0.842	1.73	
CPT-2	34.76	11	229.8	1.22	115	4372	2885	187.2	157.8	0.54	1.6	4.2	0.00	0.0	187.2	0.488	0.690	0.828	1.70	
CPT-2	34.83	11	208.6	1.22	115	4380	2888	169.8	142.9	0.59	1.6	5.2	0.00	0.7	170.5	0.489	0.541	0.650	1.33	
CPT-2	34.9	11	208.6	1.65	125	4388	2892	169.7	142.7	0.80	1.7	6.7	0.04	8.0	177.7	0.489	0.602	0.722	1.48	
CPT-2	34.97	11	174.8	1.37	115	4396	2896	142.1	119.1	0.79	1.8	7.9	0.08	11.8	153.9	0.489	0.419	0.503	1.03	Low F.S.
CPT-2	35.03	11	197.8	1.45	115	4403	2899	160.7	134.9	0.74	1.7	6.6	0.04	7.4	168.1	0.490	0.522	0.626	1.28	
CPT-2	35.11	11	191.8	1.43	115	4412	2904	155.7	130.5	0.75	1.7	7.0	0.05	8.6	164.3	0.490	0.492	0.591	1.21	
CPT-2	35.18	11	190.3	1.82	125	4421	2907	154.4	129.3	0.97	1.8	8.5	0.09	15.8	170.2	0.490	0.538	0.646	1.32	
CPT-2	35.26	11	200.7	2.2	125	4431	2912	162.7	136.2	1.11	1.8	9.0	0.11	19.4	182.1	0.490	0.641	0.770	1.57	
CPT-2	35.33	11	210.9	2.15	125	4439	2917	170.9	143.0	1.03	1.8	8.2	0.08	15.8	186.7	0.491	0.685	0.822	1.68	
CPT-2	35.39	11	233.4	2.17	125	4447	2920	189.0	158.2	0.94	1.7	6.9	0.05	10.3	199.3	0.491	0.816	0.979	2.00	
CPT-2	35.46	11	240.7	2.69	125	4456	2925	194.7	163.0	1.13	1.8	7.9	0.08	16.3	211.0	0.491	0.954	1.145	2.33	
CPT-2	35.53	11	243.6	2.73	125	4464	2929	196.9	164.7	1.13	1.8	7.8	0.08	16.2	213.1	0.491	0.980	1.176	2.39	
CPT-2	35.61	11	249.2	4.29	135	4474	2934	201.3	168.3	1.74	1.9	10.8	0.16	37.1	238.4	0.491	1.340	1.608	3.27	
CPT-2	35.68	11	263.9	3.94	135	4484	2939													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{tip}	$(Q_{tip})_{ns}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	36.04	11	201.1	1.75	125	4532	2965	161.6	134.1	0.88	1.8	7.6	0.07	12.3	173.9	0.493	0.569	0.683	1.39	
CPT-2	36.1	11	185.8	1.66	125	4539	2968	149.2	123.6	0.90	1.8	8.4	0.09	14.8	164.0	0.493	0.490	0.588	1.19	Low F.S.
CPT-2	36.18	11	168.2	1.56	125	4549	2973	135.0	111.6	0.94	1.9	9.4	0.12	17.8	152.8	0.493	0.412	0.494	1.00	Low F.S.
CPT-2	36.25	11	160.9	1.4	125	4558	2978	129.0	106.5	0.88	1.9	9.3	0.12	16.9	145.9	0.493	0.369	0.442	0.90	Liquefaction
CPT-2	36.33	11	155.1	1.07	115	4568	2983	124.3	102.4	0.70	1.8	8.3	0.09	11.9	136.1	0.494	0.315	0.378	0.77	Liquefaction
CPT-2	36.39	11	151.7	1.03	115	4575	2986	121.5	100.0	0.69	1.8	8.4	0.09	12.0	133.5	0.494	0.301	0.361	0.73	Liquefaction
CPT-2	36.47	11	149.6	1.03	115	4584	2990	119.7	98.5	0.70	1.8	8.6	0.10	12.6	132.3	0.494	0.295	0.354	0.72	Liquefaction
CPT-2	36.54	11	149	1.04	115	4592	2994	119.1	98.0	0.71	1.8	8.7	0.10	13.0	132.1	0.494	0.295	0.353	0.71	Liquefaction
CPT-2	36.61	11	149.6	1.24	125	4600	2998	119.6	98.2	0.84	1.9	9.7	0.12	17.0	136.6	0.495	0.317	0.380	0.77	Liquefaction
CPT-2	36.68	11	151.5	1.29	125	4609	3002	121.0	99.4	0.86	1.9	9.7	0.13	17.6	138.5	0.495	0.327	0.393	0.79	Liquefaction
CPT-2	36.76	11	156.7	1.25	115	4619	3007	125.0	102.6	0.81	1.8	9.1	0.11	15.3	140.4	0.495	0.337	0.405	0.82	Liquefaction
CPT-2	36.83	11	157.7	1.2	115	4627	3011	125.8	103.2	0.77	1.8	8.8	0.10	14.1	139.8	0.495	0.334	0.401	0.81	Liquefaction
CPT-2	36.89	11	163.5	1.58	125	4634	3014	130.3	106.9	0.98	1.9	10.0	0.13	20.0	150.3	0.496	0.396	0.475	0.96	Liquefaction
CPT-2	36.97	11	175.3	2.35	135	4644	3019	139.6	114.6	1.36	2.0	11.8	0.18	30.7	170.3	0.496	0.540	0.648	1.31	
CPT-2	37.04	11	184.6	1.88	125	4653	3024	146.9	120.5	1.03	1.9	9.4	0.12	19.5	166.4	0.496	0.509	0.610	1.23	
CPT-2	37.1	11	197.8	1.97	125	4661	3028	157.3	129.1	1.01	1.8	8.7	0.10	17.5	174.8	0.496	0.576	0.692	1.39	
CPT-2	37.17	11	184.9	2.18	125	4669	3032	146.9	120.4	1.19	1.9	10.4	0.14	24.8	171.7	0.496	0.551	0.661	1.33	
CPT-2	37.25	11	162.1	1.88	125	4679	3037	128.7	105.2	1.18	1.9	11.4	0.17	26.4	155.1	0.497	0.427	0.512	1.03	Low F.S.
CPT-2	37.32	11	155.9	1.47	125	4688	3041	123.7	100.9	0.96	1.9	10.3	0.14	20.3	144.0	0.497	0.358	0.429	0.86	Liquefaction
CPT-2	37.39	11	151.7	1.09	115	4697	3046	120.3	98.0	0.73	1.8	8.8	0.10	13.7	134.0	0.497	0.304	0.365	0.73	Liquefaction
CPT-2	37.46	11	141.2	0.82	115	4705	3050	111.9	91.0	0.59	1.8	8.3	0.09	10.7	122.6	0.497	0.251	0.302	0.61	Liquefaction
CPT-2	37.53	11	133	0.68	105	4713	3053	105.3	85.5	0.52	1.8	8.1	0.08	9.6	114.9	0.498	0.221	0.265	0.53	Liquefaction
CPT-2	37.6	11	127.6	0.63	105	4720	3056	101.0	81.9	0.50	1.8	8.3	0.09	9.8	110.8	0.498	0.206	0.248	0.50	Liquefaction
CPT-2	37.67	11	112.9	0.47	105	4728	3059	89.3	72.2	0.43	1.8	8.6	0.10	9.4	98.7	0.498	0.170	0.203	0.41	Liquefaction
CPT-2	37.75	11	102.6	0.96	125	4736	3063	81.1	65.4	0.96	2.0	14.2	0.25	26.3	107.5	0.498	0.195	0.234	0.47	Liquefaction
CPT-2	37.82	11	93.7	1.37	135	4745	3067	74.0	59.5	1.50	2.2	18.9	0.37	43.5	117.5	0.499	0.231	0.277	0.56	Liquefaction
CPT-2	37.89	11	89.8	1.42	135	4754	3072	70.9	56.9	1.62	2.2	20.1	0.40	48.1	118.9	0.499	0.236	0.284	0.57	Liquefaction
CPT-2	37.97	11	95.7	1.16	125	4765	3078	75.5	60.6	1.24	2.1	17.0	0.32	35.6	111.1	0.499	0.208	0.249	0.50	Liquefaction
CPT-2	38.04	11	100.6	1.29	125	4774	3082	79.3	63.7	1.31	2.1	16.9	0.32	37.1	116.4	0.499	0.227	0.272	0.55	Liquefaction
CPT-2	38.11	11	119.4	1.47	125	4783	3087	94.0	75.8	1.26	2.1	14.8	0.26	33.4	127.4	0.499	0.272	0.327	0.65	Liquefaction
CPT-2	38.17	11	141.5	1.42	125	4790	3090	111.4	90.0	1.02	2.0	11.7	0.18	24.1	135.5	0.500	0.311	0.374	0.75	Liquefaction
CPT-2	38.24	11	149.7	1.37	125	4799	3095	117.7	95.2	0.93	1.9	10.6	0.15	20.6	138.3	0.500	0.326	0.391	0.78	Liquefaction
CPT-2	38.31	11	172.9	1.22	115	4808	3099	135.9	110.0	0.72	1.8	7.9	0.08	11.2	147.1	0.500	0.376	0.451	0.90	Liquefaction
CPT-2	38.38	11	188.1	1.17	115	4816	3103	147.7	119.6	0.63	1.7	6.6	0.04	6.6	154.4	0.500	0.422	0.506	1.01	Low F.S.
CPT-2	38.45	11	207	1.03	105	4824	3107	162.5	131.7	0.50	1.6	5.0	0.00	0.0	162.5	0.500	0.479	0.575	1.15	Low F.S.
CPT-2	38.52	11	211.9	1.29	115	4831	3109	166.3	134.7	0.62	1.7	5.7	0.02	3.2	169.5	0.501	0.533	0.639	1.28	
CPT-2	38.59	11	212.2	1.5	115	4839	3113	166.4	134.7	0.72	1.7	6.5	0.04	6.7	173.1	0.501	0.563	0.675	1.35	
CPT-2	38.67	11	206.9	1.59	115	4848	3117	162.1	131.1	0.78	1.7	7.1	0.06	9.6	171.7	0.501	0.551	0.661	1.32	
CPT-2	38.74	11	214	1.63	115	4856	3121	167.6	135.5	0.77	1.7	6.8	0.05	8.5	176.1	0.502	0.588	0.706	1.41	
CPT-2	38.81	11	225.2	2.09	125	4864	3125	176.3	142.5	0.94	1.8	7.6	0.07	13.2	189.5	0.502	0.713	0.855	1.70	
CPT-2	38.88	11	232.9	2.57	125	4873	3129	182.2	147.2	1.12	1.8	8.5	0.09	18.7	200.9	0.502	0.834	1.001	1.99	
CPT-2	38.95	11	253.3	2.5	125	4882	3134	198.0	160.0	1.00	1.8	7.2	0.06	12.5	210.5	0.502	0.948	1.137	2.26	
CPT-2	39.02	11	269.5	2.11	125	4891	3138	210.5	170.1	0.79	1.7	5.5	0.01	3.1	213.6	0.502	0.986	1.184	2.36	
CPT-2	39.09	11	273.4	1.8	115	4899	3142	213.4	172.4	0.66	1.6	4.6	0.00	0.0	213.4	0.503	0.984	1.181	2.35	
CPT-2	39.16	11	269.9	1.76	115	4908	3146	210.5	170.0	0.66	1.6	4.6	0.00	0.0	210.5	0.503	0.948	1.138	2.26	
CPT-2	39.23	11	275.2	1.91	115	4916	3150	214.6	173.1	0.70	1.6	4.8	0.00	0.0	214.6	0.503	0.999	1.198	2.38	
CPT-2	39.3	11	286.6	2.67	125	4924	3153	223.3	180.1	0.94	1.7	6.2	0.03	7.1	230.5	0.503	1.218	1.462	2.90	
CPT-2	39.37	11	307.2	2.52	125	4932	3158	239.2	192.9	0.83	1.6	5.1	0.00	0.5	239.7	0.503	1.360	1.633	3.24	
CPT-2	39.44	11	301.6	2.56	125	4941	3162	234.7	189.1	0.86	1.7	5.4	0.01	2.3	237.0	0.504	1.318	1.581	3.14	
CPT-2	39.51	11	290.1	2.61	125	4950	3166	225.6	181.6	0.91	1.7	5.9	0.02	5.7	231.2	0.504	1.230	1.476	2.93	
CPT-2	39.58	11	285.6	2.42	125	4959	3171	221.9	178.5	0.85	1.7	5.7	0.02	4.1	226.1	0.504	1.154	1.385	2.75	
CPT-2	39.64	11	269.9	2.11	125	4966	3175	209.6	168.4	0.79	1.7	5.6	0.02	3.4	213.0	0.504	0.978	1.174	2.33	
CPT-2	39.72	11	263.8	1.58	115	4976	3180	204.7	164.3	0.60	1.6	4.4	0.00	0.0	204.7	0.504	0.878	1.053	2.09	
CPT-2	39.79	11	258.5	1.46	115	4984	3183	200.5	160.8	0.57	1.6	4.3	0.00	0.0	200.5	0.505	0.829	0.995	1.97	
CPT-2	39.85	11	258.2	1.42	115	4991	3186	200.1	160.4	0.56	1.6	4.2	0.00	0.0	200.1	0.505	0.825	0.991	1.96	
CPT-2	39.92	11	267.3	1.16	105	4999	3190	207.1	165.9	0.44	1.5	3.1	0.00	0.0	207.1	0.505	0.906	1.087	2.15	
CPT-2	39.99	11	285.1	1.6	115	5006	3193	220.8	176.9	0.57	1.6	3.8	0.00	0.0	220.8	0.505	1.080	1.297	2.57	
CPT-2	40.07	11	280.7	1.5	115	5016	3197	217.2	173.9	0.54	1.6	3.6	0.00	0.0	217.2	0.467	1.033	1.240	2.65	
CPT-2	40.13	11	250.9	1.59	115	5023	3200	194.0	155.2	0.64	1.6	5.0	0.00	0.2	194.2	0.467	0.761	0.914	1.96	
CPT-2	40.21	11	229.5	1.27	115	5032	3205	177.4	141.6	0.56	1.6	5.0	0.00	0.0	177.4	0.468	0.599	0.719	1.54	
CPT-2	40.28	11	216.8	1.42	115	5040	3208	167.5	133.5	0.66	1.7	6.1	0.03	5.2	172.7	0.468	0.559	0.671	1.43	
CPT-2	40.34	11	213.6	2.11	125	5047	3212	164.9	131.4	1.00	1.8	8.6	0.10	17.4	182.3	0.468	0.643	0.772	1.65	
CPT-2	40.42	11																		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{IN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{IN}	$(Q_{IN})_{50}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	40.76	11	281.9	3.58	135	5102	3241	216.7	172.3	1.28	1.8	8.4	0.09	21.5	238.2	0.469	1.337	1.605	3.42	
CPT-2	40.83	11	278	3.55	135	5111	3246	213.5	169.7	1.29	1.8	8.5	0.09	22.2	235.7	0.469	1.298	1.557	3.32	
CPT-2	40.9	11	248.1	3.43	135	5121	3251	190.4	151.0	1.40	1.9	9.9	0.13	28.6	219.0	0.469	1.057	1.268	2.70	
CPT-2	40.97	11	246.5	3.26	135	5130	3256	189.0	149.8	1.34	1.9	9.6	0.12	26.6	215.6	0.469	1.012	1.215	2.59	
CPT-2	41.04	11	213.5	2.27	125	5140	3261	163.6	129.3	1.08	1.8	9.2	0.11	20.4	184.0	0.469	0.660	0.792	1.69	
CPT-2	41.11	11	205.6	2.6	135	5149	3265	157.4	124.3	1.28	1.9	10.7	0.15	28.1	185.5	0.470	0.674	0.809	1.72	
CPT-2	41.18	11	200.8	1.86	125	5158	3270	153.6	121.2	0.94	1.8	8.7	0.10	17.1	170.7	0.470	0.543	0.651	1.39	
CPT-2	41.25	11	198.3	1.85	125	5167	3275	151.6	119.5	0.95	1.8	8.9	0.10	17.6	169.2	0.470	0.531	0.637	1.36	
CPT-2	41.32	11	196.6	1.91	125	5176	3279	150.2	118.3	0.98	1.9	9.2	0.11	19.1	169.3	0.470	0.532	0.638	1.36	
CPT-2	41.39	11	192.1	1.92	125	5184	3284	146.7	115.4	1.01	1.9	9.6	0.12	20.6	167.2	0.470	0.515	0.618	1.31	
CPT-2	41.46	11	181.4	1.93	125	5193	3288	138.4	108.7	1.08	1.9	10.5	0.15	23.8	162.2	0.470	0.477	0.572	1.22	
CPT-2	41.49	11	171.2	1.95	125	5197	3290	130.6	102.5	1.16	1.9	11.5	0.17	27.2	157.8	0.470	0.446	0.535	1.14	Low F.S.
CPT-2	41.54	11	163.3	1.92	125	5203	3293	124.5	97.6	1.19	2.0	12.1	0.19	29.2	153.7	0.471	0.418	0.501	1.07	Low F.S.
CPT-2	41.61	11	162.9	0.87	105	5212	3297	124.1	97.2	0.54	1.8	7.4	0.06	8.3	132.4	0.471	0.296	0.355	0.75	Liquefaction
CPT-2	41.68	11	164.9	1.51	125	5219	3300	125.6	98.3	0.93	1.9	10.3	0.14	20.7	146.3	0.471	0.371	0.445	0.95	Liquefaction
CPT-2	41.75	11	138.3	1.78	135	5228	3305	105.3	82.1	1.31	2.1	14.4	0.25	35.2	140.5	0.471	0.338	0.406	0.86	Liquefaction
CPT-2	41.82	11	133.3	1.74	135	5237	3310	101.4	78.9	1.33	2.1	14.9	0.26	36.4	137.8	0.471	0.323	0.388	0.82	Liquefaction
CPT-2	41.89	11	131.1	1.62	135	5247	3315	99.6	77.5	1.26	2.1	14.6	0.26	34.5	134.1	0.471	0.304	0.365	0.77	Liquefaction
CPT-2	41.97	11	127.9	1.71	135	5258	3321	97.1	75.4	1.37	2.1	15.5	0.28	38.0	135.2	0.471	0.310	0.372	0.79	Liquefaction
CPT-2	42.08	11	124.5	1	115	5272	3329	94.4	73.2	0.82	2.0	12.0	0.19	21.9	116.3	0.472	0.226	0.271	0.58	Liquefaction
CPT-2	42.15	11	117.4	0.98	125	5280	3332	89.0	68.8	0.85	2.0	12.9	0.21	23.7	112.7	0.472	0.213	0.256	0.54	Liquefaction
CPT-2	42.23	11	120.4	0.98	115	5290	3337	91.2	70.5	0.83	2.0	12.5	0.20	22.7	113.9	0.472	0.218	0.261	0.55	Liquefaction
CPT-2	42.3	11	103.6	0.97	125	5299	3341	78.4	60.4	0.96	2.1	15.0	0.27	28.6	107.1	0.472	0.194	0.233	0.49	Liquefaction
CPT-2	42.37	11	86.3	0.93	125	5307	3345	65.3	50.0	1.11	2.2	18.2	0.35	35.7	101.0	0.472	0.176	0.211	0.45	Liquefaction
CPT-2	42.57	11	87.8	0.88	125	5332	3358	66.3	50.7	1.03	2.2	17.5	0.33	33.2	99.4	0.473	0.171	0.206	0.44	Liquefaction
CPT-2	42.8	11	111.4	1.65	135	5361	3372	83.9	64.5	1.52	2.2	18.1	0.35	45.1	129.1	0.473	0.280	0.336	0.71	Liquefaction
CPT-2	42.87	11	112.4	1.45	135	5370	3377	84.6	64.9	1.32	2.1	16.8	0.31	38.9	123.5	0.474	0.255	0.306	0.65	Liquefaction
CPT-2	42.94	11	104.6	1.48	135	5380	3382	78.7	60.2	1.45	2.2	18.4	0.36	44.0	122.7	0.474	0.252	0.302	0.64	Liquefaction
CPT-2	43.01	11	106.7	1.6	135	5389	3388	80.2	61.4	1.54	2.2	18.8	0.37	46.6	126.8	0.474	0.270	0.323	0.68	Liquefaction
CPT-2	43.08	11	107.3	1.01	125	5399	3393	80.6	61.6	0.97	2.1	14.8	0.26	28.7	109.3	0.474	0.202	0.242	0.51	Liquefaction
CPT-2	43.15	11	102.6	0.62	115	5408	3397	77.0	58.8	0.62	2.0	12.4	0.20	19.0	96.0	0.474	0.162	0.195	0.41	Liquefaction
CPT-2	43.23	11	102.7	0.8	115	5417	3401	77.0	58.8	0.80	2.0	14.0	0.24	24.4	101.4	0.474	0.177	0.212	0.45	Liquefaction
CPT-2	43.3	11	102.7	1.29	125	5425	3405	77.0	58.7	1.29	2.2	17.7	0.34	39.4	116.4	0.474	0.227	0.272	0.57	Liquefaction
CPT-2	43.38	11	117.4	1.14	125	5435	3410	88.0	67.2	0.99	2.0	14.2	0.25	28.6	116.5	0.475	0.227	0.273	0.57	Liquefaction
CPT-2	43.45	11	133.9	1.51	125	5444	3414	100.3	76.8	1.15	2.0	14.0	0.24	31.7	131.9	0.475	0.294	0.352	0.74	Liquefaction
CPT-2	43.53	11	142.5	1.22	125	5454	3419	106.6	81.7	0.87	1.9	11.4	0.17	22.2	128.8	0.475	0.279	0.334	0.70	Liquefaction
CPT-2	43.6	11	123.5	1.08	125	5462	3424	92.3	70.5	0.89	2.0	13.0	0.21	24.9	117.3	0.475	0.230	0.276	0.58	Liquefaction
CPT-2	43.67	11	127.6	1.13	125	5471	3428	95.4	72.8	0.90	2.0	12.7	0.21	24.8	120.2	0.475	0.242	0.290	0.61	Liquefaction
CPT-2	43.75	11	115.8	1.22	125	5481	3433	86.5	65.8	1.08	2.1	15.0	0.27	31.5	118.0	0.475	0.233	0.279	0.59	Liquefaction
CPT-2	43.82	11	108.3	1.25	125	5490	3437	80.8	61.4	1.18	2.1	16.5	0.31	35.7	116.5	0.476	0.227	0.273	0.57	Liquefaction
CPT-2	43.9	11	107.2	1.11	125	5500	3442	79.9	60.7	1.06	2.1	15.7	0.29	32.1	112.1	0.476	0.211	0.253	0.53	Liquefaction
CPT-2	43.98	11	84.1	0.86	125	5510	3447	62.7	47.2	1.06	2.2	18.5	0.36	35.3	98.0	0.476	0.167	0.201	0.42	Liquefaction
CPT-2	44.05	11	85.6	1.64	135	5519	3452	63.7	48.0	1.98	2.3	24.2	0.51	67.3	131.1	0.476	0.289	0.347	0.73	Liquefaction
CPT-2	44.13	11	96.8	2.68	135	5529	3458	72.0	54.4	2.85	2.4	26.9	0.58	101.1	173.1	0.476	0.563	0.675	1.42	Liquefaction
CPT-2	44.2	11	138.5	3.12	135	5539	3463	103.0	78.4	2.30	2.2	20.1	0.40	69.6	172.6	0.476	0.558	0.670	1.41	Liquefaction
CPT-2	44.28	11	146	3.66	135	5550	3469	108.5	82.5	2.56	2.2	20.7	0.42	78.3	186.8	0.476	0.686	0.823	1.73	Liquefaction
CPT-2	44.35	11	159.2	4.89	135	5559	3474	118.2	90.0	3.13	2.3	22.1	0.46	99.4	217.6	0.477	1.038	1.245	2.61	Liquefaction
CPT-2	44.43	11	166.8	4.74	135	5570	3479	123.7	94.2	2.89	2.3	20.7	0.42	89.5	213.2	0.477	0.981	1.177	2.47	Liquefaction
CPT-2	44.5	11	175.8	4.29	135	5579	3485	130.3	99.3	2.48	2.2	18.5	0.36	73.6	203.9	0.477	0.868	1.041	2.18	Liquefaction
CPT-2	44.58	11	198.4	3.77	135	5590	3490	146.9	112.0	1.93	2.1	14.9	0.26	52.8	199.8	0.477	0.821	0.986	2.07	Liquefaction
CPT-2	44.65	11	197.3	3.43	135	5600	3495	146.0	111.2	1.76	2.0	14.2	0.24	47.3	193.3	0.477	0.752	0.902	1.89	Liquefaction
CPT-2	44.72	11	207.5	2.35	125	5609	3501	153.5	116.9	1.15	1.9	10.4	0.14	25.6	179.1	0.477	0.614	0.737	1.54	Liquefaction
CPT-2	44.79	11	212.1	1.52	115	5618	3505	156.8	119.4	0.73	1.8	7.4	0.06	10.5	167.3	0.477	0.515	0.618	1.30	Liquefaction
CPT-2	44.86	11	225.4	1.09	105	5626	3509	166.5	126.8	0.49	1.6	5.1	0.00	0.3	166.8	0.478	0.512	0.614	1.29	Liquefaction
CPT-2	44.93	11	243.3	0.96	105	5633	3512	179.6	136.9	0.40	1.6	3.8	0.00	0.0	179.6	0.478	0.619	0.743	1.56	Liquefaction
CPT-2	45	11	264.4	0.89	95	5641	3515	195.1	148.8	0.34	1.5	2.8	0.00	0.0	195.1	0.478	0.771	0.925	1.94	Liquefaction
CPT-2	45.07	11	267.3	0.89	95	5647	3517	197.2	150.3	0.34	1.5	2.7	0.00	0.0	197.2	0.478	0.793	0.952	1.99	Liquefaction
CPT-2	45.12	11	272.5	1	105	5652	3518	201.0	153.2	0.37	1.5	2.9	0.00	0.0	201.0	0.478	0.835	1.002	2.10	Liquefaction
CPT-2	45.19	11	296.5	1.31	105	5659	3521	218.6	166.7	0.45	1.5	3.1	0.00	0.0	218.6	0.479	1.052	1.262	2.64	Liquefaction
CPT-2	45.26	11	305.8	1.54	105	5667	3524	225.4	171.9	0.51	1.5	3.5	0.00	0.0	225.4	0.479	1.145	1.374	2.87	Liquefaction
CPT-2	45.39	11	293.8	1.59	115	5680	3530	216.4	164.8	0.55	1.6	4.0	0.00	0.0	216.4	0.479	1.022	1.226	2.56	Liquefaction
CPT-2	45.52	11	279.2	1.43	115	5695	3537	205.4	156.2	0.52	1.6	4.1	0.00	0.0	205.4	0.480	0.			

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{tip}	$(Q_{tip})_{ns}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	45.99	11	250.3	1.92	115	5749	3561	183.5	138.9	0.78	1.7	6.7	0.05	8.7	192.2	0.481	0.741	0.889	1.85	
CPT-2	46.06	11	265.1	2.37	125	5757	3564	194.3	147.1	0.90	1.8	7.2	0.06	12.0	206.3	0.481	0.897	1.076	2.24	
CPT-2	46.13	11	258.6	3.04	135	5765	3569	189.4	143.2	1.19	1.8	9.1	0.11	23.3	212.7	0.481	0.975	1.170	2.43	
CPT-2	46.2	11	265.7	3.3	135	5775	3574	194.5	147.0	1.26	1.9	9.3	0.12	25.3	219.7	0.481	1.067	1.280	2.66	
CPT-2	46.27	11	276	2.89	125	5784	3579	201.9	152.6	1.06	1.8	7.9	0.08	17.0	218.9	0.481	1.055	1.266	2.63	
CPT-2	46.34	11	273.4	2.7	125	5793	3583	199.8	150.9	1.00	1.8	7.6	0.07	15.0	214.8	0.481	1.002	1.203	2.50	
CPT-2	46.41	11	255.8	2.6	125	5802	3588	186.9	140.9	1.03	1.8	8.3	0.09	17.8	204.7	0.482	0.877	1.053	2.19	
CPT-2	46.48	11	269.5	2.31	125	5811	3592	196.7	148.4	0.87	1.7	6.9	0.05	10.4	207.2	0.482	0.907	1.088	2.26	
CPT-2	46.55	11	287.8	2.09	115	5819	3597	210.0	158.4	0.73	1.7	5.6	0.02	3.3	213.3	0.482	0.982	1.179	2.45	
CPT-2	46.62	11	306.3	1.82	115	5827	3600	223.4	168.5	0.60	1.6	4.3	0.00	0.0	223.4	0.482	1.116	1.340	2.78	
CPT-2	46.69	11	321	2.01	115	5835	3604	234.0	176.4	0.63	1.6	4.3	0.00	0.0	234.0	0.482	1.271	1.525	3.16	
CPT-2	46.75	11	334.4	2.1	115	5842	3607	243.6	183.7	0.63	1.6	4.0	0.00	0.0	243.6	0.482	1.425	1.710	3.54	
CPT-2	46.82	11	346.9	2.34	115	5850	3611	252.6	190.4	0.68	1.6	4.2	0.00	0.0	252.6	0.483	1.579	1.895	3.93	
CPT-2	46.89	11	367.1	2.57	115	5858	3614	267.2	201.4	0.71	1.6	4.1	0.00	0.0	267.2	0.483	1.853	2.224	4.61	
CPT-2	46.95	11	363	2.88	125	5865	3618	264.1	199.0	0.80	1.6	4.7	0.00	0.0	264.1	0.483	1.792	2.151	4.45	
CPT-2	47.02	11	368.1	3.23	125	5874	3622	267.6	201.6	0.88	1.6	5.2	0.01	1.4	269.0	0.483	1.891	2.269	4.70	
CPT-2	47.09	11	364.7	3.25	125	5883	3626	265.0	199.4	0.90	1.7	5.3	0.01	2.4	267.4	0.483	1.858	2.230	4.62	
CPT-2	47.15	11	362.2	3.31	125	5890	3630	263.0	197.8	0.92	1.7	5.5	0.01	3.7	266.7	0.483	1.845	2.214	4.58	
CPT-2	47.22	11	361.4	3.46	125	5899	3635	262.3	197.2	0.97	1.7	5.8	0.02	5.7	268.0	0.483	1.870	2.245	4.64	
CPT-2	47.29	11	364.4	3.23	125	5908	3639	264.3	198.6	0.89	1.7	5.3	0.01	2.4	266.7	0.483	1.844	2.212	4.58	
CPT-2	47.35	11	374.3	3.49	125	5915	3643	271.3	203.8	0.94	1.7	5.5	0.01	3.4	274.8	0.484	2.010	2.411	4.99	
CPT-2	47.42	11	369.5	3.39	125	5924	3647	267.7	200.9	0.92	1.7	5.5	0.01	3.3	271.0	0.484	1.931	2.317	4.79	
CPT-2	47.49	11	377	3.56	125	5933	3651	273.0	204.8	0.95	1.7	5.5	0.01	3.8	276.8	0.484	2.052	2.462	5.09	
CPT-2	47.55	11	381.4	3.39	125	5940	3655	276.0	207.0	0.90	1.6	5.1	0.00	0.9	276.9	0.484	2.055	2.466	5.10	
CPT-2	47.62	11	361.2	3.27	125	5949	3660	261.2	195.7	0.91	1.7	5.5	0.01	3.7	265.0	0.484	1.810	2.172	4.49	
CPT-2	47.69	11	370.4	3.37	125	5958	3664	267.7	200.5	0.92	1.7	5.4	0.01	3.1	270.8	0.484	1.927	2.312	4.77	
CPT-2	47.76	11	340.2	4.05	135	5967	3668	245.8	183.8	1.20	1.8	7.5	0.07	17.9	263.7	0.484	1.786	2.143	4.42	
CPT-2	47.82	11	350	3.72	125	5975	3673	252.7	188.9	1.07	1.7	6.7	0.04	11.8	264.4	0.484	1.800	2.160	4.46	
CPT-2	47.89	11	354.1	3.85	125	5983	3677	255.5	190.9	1.10	1.7	6.7	0.05	12.5	268.0	0.485	1.869	2.243	4.63	
CPT-2	47.96	11	351.4	4.09	135	5992	3681	253.4	189.2	1.17	1.8	7.2	0.06	16.0	269.4	0.485	1.899	2.278	4.70	
CPT-2	48.03	11	340.5	3.86	125	6002	3687	245.4	183.0	1.14	1.8	7.3	0.06	15.7	261.1	0.485	1.736	2.083	4.30	
CPT-2	48.09	11	340.2	3.46	125	6009	3690	245.0	182.7	1.03	1.7	6.6	0.04	10.9	255.9	0.485	1.639	1.967	4.06	
CPT-2	48.16	11	354.9	2.84	115	6018	3695	255.5	190.4	0.75	1.6	4.7	0.00	0.0	255.5	0.485	1.631	1.957	4.03	
CPT-2	48.23	11	331.2	2.25	115	6026	3698	238.3	177.4	0.69	1.6	4.6	0.00	0.0	238.3	0.485	1.338	1.606	3.31	
CPT-2	48.29	11	323.2	2.15	115	6033	3701	232.4	172.9	0.67	1.6	4.6	0.00	0.0	232.4	0.485	1.248	1.497	3.09	
CPT-2	48.36	11	309.3	1.8	115	6041	3705	222.3	165.3	0.59	1.6	4.3	0.00	0.0	222.3	0.486	1.102	1.322	2.72	
CPT-2	48.4	11	269.5	1.66	115	6045	3707	193.7	143.7	0.62	1.7	5.4	0.01	1.9	195.6	0.486	0.776	0.931	1.92	
CPT-2	48.48	11	274.3	1.62	115	6055	3711	197.0	146.1	0.60	1.6	5.1	0.00	0.4	197.4	0.486	0.795	0.954	1.96	
CPT-2	48.55	11	267.1	1.53	115	6063	3715	191.7	142.1	0.58	1.6	5.1	0.00	0.5	192.2	0.486	0.741	0.889	1.83	
CPT-2	48.62	11	257	1.22	105	6071	3719	184.4	136.5	0.48	1.6	4.5	0.00	0.0	184.4	0.486	0.663	0.796	1.64	
CPT-2	48.68	11	244	0.97	105	6077	3721	175.0	129.4	0.40	1.6	4.2	0.00	0.0	175.0	0.486	0.578	0.694	1.43	
CPT-2	48.82	11	227.7	1.07	105	6092	3727	163.2	120.5	0.48	1.7	5.3	0.01	1.2	164.4	0.487	0.493	0.592	1.22	
CPT-2	48.89	11	216.7	0.96	105	6099	3730	155.2	114.5	0.45	1.7	5.4	0.01	1.6	156.8	0.487	0.438	0.526	1.08	Low F.S.
CPT-2	48.96	11	214.8	0.79	105	6106	3733	153.8	113.4	0.37	1.6	4.7	0.00	0.0	153.8	0.487	0.418	0.502	1.03	Low F.S.
CPT-2	49.03	11	210.2	0.73	95	6114	3736	150.5	110.8	0.35	1.6	4.7	0.00	0.0	150.5	0.487	0.397	0.476	0.98	Liquefaction
CPT-2	49.1	11	202.6	0.77	105	6120	3739	145.0	106.7	0.39	1.7	5.2	0.01	1.0	145.9	0.488	0.369	0.443	0.91	Liquefaction
CPT-2	49.16	11	199.4	0.66	95	6127	3741	142.6	104.9	0.34	1.6	4.9	0.00	0.0	142.6	0.488	0.350	0.420	0.86	Liquefaction
CPT-2	49.23	11	192	0.56	95	6133	3743	137.3	100.9	0.30	1.6	4.7	0.00	0.0	137.3	0.488	0.321	0.385	0.79	Liquefaction
CPT-2	49.3	11	185.8	0.47	95	6140	3746	132.8	97.5	0.26	1.6	4.5	0.00	0.0	132.8	0.488	0.298	0.358	0.73	Liquefaction
CPT-2	49.37	11	179.1	0.53	95	6147	3748	128.0	93.9	0.30	1.7	5.3	0.01	0.9	128.9	0.488	0.279	0.335	0.69	Liquefaction
CPT-2	49.44	11	174	0.54	95	6153	3750	124.3	91.1	0.32	1.7	5.6	0.02	2.1	126.4	0.489	0.268	0.321	0.66	Liquefaction
CPT-2	49.51	11	172.5	0.6	95	6160	3753	123.2	90.3	0.35	1.7	6.1	0.03	3.7	126.9	0.489	0.270	0.324	0.66	Liquefaction
CPT-2	49.58	11	172.3	0.58	95	6167	3755	123.0	90.1	0.34	1.7	6.0	0.03	3.3	126.4	0.489	0.268	0.321	0.66	Liquefaction
CPT-2	49.65	11	169.9	0.97	115	6173	3757	121.3	88.8	0.58	1.8	8.4	0.09	12.1	133.3	0.489	0.301	0.361	0.74	Liquefaction
CPT-2	49.72	11	160	0.8	105	6181	3761	114.2	83.4	0.51	1.8	8.2	0.09	10.8	124.9	0.489	0.261	0.314	0.64	Liquefaction
CPT-2	49.79	11	163.5	1	115	6189	3764	116.6	85.2	0.62	1.8	9.1	0.11	14.3	130.9	0.490	0.289	0.346	0.71	Liquefaction
CPT-2	49.86	11	171.1	1.12	115	6197	3767	122.0	89.1	0.67	1.8	9.1	0.11	14.9	136.9	0.490	0.319	0.382	0.78	Liquefaction
CPT-2	49.93	11	182	1.42	115	6205	3771	129.7	94.8	0.79	1.9	9.6	0.12	18.1	147.8	0.490	0.380	0.456	0.93	Liquefaction
CPT-2	50	11	209.2	1.84	125	6213	3775	149.0	109.1	0.89	1.8	9.2	0.11	18.9	167.9	0.432	0.520	0.624	1.44	
CPT-2	50.07	11	227.1	1.95	125	6222	3779	161.6	118.5	0.87	1.8	8.4	0.09	16.4	178.0	0.433	0.605	0.726	1.68	
CPT-2	50.13	11	228.3	3.16	135	6229	3783	162.4	119.0	1.40	2.0	11.7	0.18	35.4	197.8	0.433	0.800	0.960	2.22	
CPT-2	50.2	11	228.8	2.76	135	6239	3788	162.7	119.1	1.22	1.9	10.7	0.15	29.0	191.6	0.433	0.735	0.881	2.04	
CPT-2	50.27	11	211.1	2.57	135	6248	3793	150.0	109.6	1.24	1.9	11								

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{tip}	$(q_{tip})_{es}$	Induced Stress		Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
																Ratio	M7.5				
CPT-2	50.62	11	272.6	1.88	115	6293	3816	193.1	141.2	0.70	1.7	6.0	0.03	5.5	198.6	0.433	0.808	0.970	2.24		
CPT-2	50.69	11	292.2	1.73	115	6301	3820	206.9	151.3	0.60	1.6	4.9	0.00	0.0	206.9	0.433	0.903	1.084	2.50		
CPT-2	50.76	11	303.1	1.72	115	6309	3823	214.5	156.8	0.57	1.6	4.5	0.00	0.0	214.5	0.434	0.998	1.197	2.76		
CPT-2	50.83	11	307.1	1.71	115	6317	3827	217.2	158.8	0.56	1.6	4.3	0.00	0.0	217.2	0.434	1.033	1.240	2.86		
CPT-2	50.9	11	313	1.65	115	6325	3831	221.3	161.7	0.53	1.6	4.0	0.00	0.0	221.3	0.434	1.088	1.305	3.01		
CPT-2	50.97	11	311.6	1.7	115	6333	3834	220.2	160.8	0.55	1.6	4.2	0.00	0.0	220.2	0.434	1.073	1.287	2.97		
CPT-2	51.04	11	303.1	2.83	125	6341	3838	214.1	156.2	0.94	1.7	7.1	0.05	12.4	226.5	0.434	1.160	1.392	3.21		
CPT-2	51.11	11	305	2.77	125	6350	3842	215.3	157.0	0.92	1.7	6.9	0.05	11.2	226.5	0.434	1.161	1.393	3.21		
CPT-2	51.18	11	328.5	2.62	125	6358	3847	231.7	169.1	0.81	1.7	5.7	0.02	4.3	236.0	0.434	1.303	1.564	3.60		
CPT-2	51.25	11	358	2.56	115	6367	3851	252.4	184.2	0.72	1.6	4.6	0.00	0.0	252.4	0.434	1.576	1.891	4.35		
CPT-2	51.32	11	361.3	3	125	6375	3855	254.6	185.7	0.84	1.7	5.4	0.01	2.4	257.0	0.435	1.659	1.991	4.58		
CPT-2	51.39	11	368.6	2.84	125	6384	3859	259.6	189.3	0.78	1.6	4.9	0.00	0.0	259.6	0.435	1.707	2.049	4.71		
CPT-2	51.46	11	372.4	2.89	125	6393	3864	262.1	191.0	0.78	1.6	4.8	0.00	0.0	262.1	0.435	1.755	2.106	4.84		
CPT-2	51.53	11	358.6	2.78	125	6401	3868	252.3	183.7	0.78	1.6	5.1	0.00	0.4	252.7	0.435	1.580	1.896	4.36		
CPT-2	51.6	11	361.8	2.65	115	6410	3872	254.4	185.1	0.74	1.6	4.7	0.00	0.0	254.4	0.435	1.611	1.933	4.44		
CPT-2	51.67	11	346.7	2.52	115	6418	3876	243.7	177.2	0.73	1.6	4.9	0.00	0.0	243.7	0.435	1.425	1.710	3.93		
CPT-2	51.74	11	332.1	2.39	115	6426	3880	233.3	169.5	0.73	1.6	5.1	0.00	0.9	234.2	0.435	1.274	1.529	3.51		
CPT-2	51.81	11	332.8	2.28	115	6434	3883	233.7	169.7	0.69	1.6	4.9	0.00	0.0	233.7	0.435	1.267	1.520	3.49		
CPT-2	52	11	310.2	2.48	125	6456	3893	217.5	157.6	0.81	1.7	6.1	0.03	6.7	224.2	0.436	1.128	1.354	3.11		
CPT-2	52.07	11	304.2	2.49	125	6465	3898	213.2	154.4	0.83	1.7	6.4	0.04	8.1	221.3	0.436	1.088	1.306	3.00		
CPT-2	52.14	11	297.1	2.54	125	6474	3902	208.1	150.6	0.86	1.7	6.8	0.05	10.4	218.5	0.436	1.050	1.260	2.89		
CPT-2	52.21	11	294.4	2.58	125	6482	3906	206.1	149.0	0.89	1.7	7.0	0.05	11.5	217.6	0.436	1.039	1.246	2.86		
CPT-2	52.28	11	287.3	2.5	125	6491	3911	201.0	145.2	0.88	1.8	7.1	0.06	12.0	213.0	0.436	0.979	1.175	2.69		
CPT-2	52.35	11	288	2.46	125	6500	3915	201.4	145.4	0.86	1.7	7.0	0.05	11.3	212.7	0.436	0.975	1.170	2.68		
CPT-2	52.42	11	287.3	2.41	125	6509	3920	200.8	144.9	0.85	1.7	6.9	0.05	10.8	211.6	0.436	0.961	1.154	2.64		
CPT-2	52.49	11	294.9	2.34	125	6517	3924	206.0	148.6	0.80	1.7	6.4	0.04	8.3	214.3	0.436	0.995	1.194	2.73		
CPT-2	52.55	11	306.9	2.31	115	6525	3928	214.3	154.5	0.76	1.7	5.9	0.02	5.4	219.6	0.437	1.065	1.278	2.93		
CPT-2	52.62	11	320.5	2.37	115	6533	3931	223.6	161.3	0.75	1.7	5.6	0.02	3.4	227.1	0.437	1.169	1.403	3.21		
CPT-2	52.69	11	329.5	2.58	125	6541	3935	229.8	165.7	0.79	1.7	5.7	0.02	4.4	234.2	0.437	1.275	1.530	3.50		
CPT-2	52.76	11	340.9	2.81	125	6550	3940	237.6	171.3	0.83	1.7	5.8	0.02	5.0	242.7	0.437	1.409	1.691	3.87		
CPT-2	52.82	11	355	2.76	125	6557	3943	247.4	178.3	0.78	1.7	5.2	0.01	1.6	248.9	0.437	1.515	1.818	4.16		
CPT-2	52.89	11	363.6	2.35	115	6566	3948	253.2	182.5	0.65	1.6	4.2	0.00	0.0	253.2	0.437	1.590	1.908	4.36		
CPT-2	52.95	11	359	1.87	115	6573	3951	249.9	180.0	0.53	1.5	3.4	0.00	0.0	249.9	0.437	1.531	1.838	4.20		
CPT-2	53.02	11	364	1.99	115	6581	3954	253.3	182.4	0.55	1.5	3.5	0.00	0.0	253.3	0.437	1.591	1.909	4.37		
CPT-2	53.08	11	359.6	2.07	115	6588	3958	250.1	180.0	0.58	1.6	3.8	0.00	0.0	250.1	0.437	1.535	1.842	4.21		
CPT-2	53.14	11	361.4	2.05	115	6595	3961	251.3	180.7	0.57	1.6	3.7	0.00	0.0	251.3	0.437	1.555	1.866	4.27		
CPT-2	53.23	11	349	1.88	115	6605	3966	242.5	174.3	0.54	1.6	3.7	0.00	0.0	242.5	0.438	1.406	1.687	3.86		
CPT-2	53.29	11	359.7	1.84	115	6612	3969	249.8	179.5	0.52	1.5	3.3	0.00	0.0	249.8	0.438	1.530	1.836	4.19		
CPT-2	53.36	11	362.2	1.88	115	6620	3972	251.4	180.6	0.52	1.5	3.3	0.00	0.0	251.4	0.438	1.558	1.870	4.27		
CPT-2	53.42	11	366.7	2.05	115	6627	3976	254.5	182.7	0.56	1.6	3.6	0.00	0.0	254.5	0.438	1.612	1.935	4.42		
CPT-2	53.5	11	369.3	2.13	115	6636	3980	256.1	183.8	0.58	1.6	3.7	0.00	0.0	256.1	0.438	1.643	1.971	4.50		
CPT-2	53.56	11	367.1	2.21	115	6643	3983	254.5	182.6	0.61	1.6	3.9	0.00	0.0	254.5	0.438	1.613	1.936	4.42		
CPT-2	53.63	11	361.6	2.23	115	6651	3987	250.6	179.7	0.62	1.6	4.1	0.00	0.0	250.6	0.438	1.543	1.852	4.22		
CPT-2	53.69	11	354.2	2.13	115	6658	3990	245.4	175.8	0.61	1.6	4.1	0.00	0.0	245.4	0.438	1.454	1.744	3.98		
CPT-2	53.76	11	350.4	2.15	115	6666	3993	242.6	173.7	0.62	1.6	4.2	0.00	0.0	242.6	0.439	1.408	1.690	3.85		
CPT-2	53.82	11	342.7	2.6	125	6673	3997	237.2	169.8	0.77	1.7	5.4	0.01	2.5	239.7	0.439	1.361	1.633	3.72		
CPT-2	53.89	11	330.9	3.18	125	6682	4001	228.9	163.7	0.97	1.7	6.9	0.05	12.4	241.3	0.439	1.387	1.664	3.79		
CPT-2	53.95	11	318.4	3.23	125	6689	4005	220.1	157.3	1.03	1.8	7.5	0.07	15.8	236.0	0.439	1.302	1.562	3.56		
CPT-2	54.02	11	303.2	3.14	125	6698	4009	209.5	149.5	1.05	1.8	8.0	0.08	18.1	227.6	0.439	1.177	1.412	3.22		
CPT-2	54.08	11	301.2	3	125	6705	4013	208.0	148.4	1.01	1.8	7.8	0.07	16.7	224.7	0.439	1.136	1.363	3.10		
CPT-2	54.15	11	271.9	2.73	125	6714	4017	187.7	133.6	1.02	1.8	8.6	0.09	19.7	207.4	0.439	0.909	1.091	2.48		
CPT-2	54.21	11	274.1	2.21	125	6722	4021	189.1	134.6	0.82	1.8	7.2	0.06	11.7	200.8	0.439	0.833	1.000	2.28		
CPT-2	54.28	11	270.6	1.69	115	6730	4025	186.6	132.7	0.63	1.7	5.9	0.02	4.8	191.4	0.439	0.732	0.878	2.00		
CPT-2	54.34	11	257	1.18	105	6737	4029	177.2	125.9	0.47	1.6	4.9	0.00	0.0	177.2	0.439	0.597	0.717	1.63		
CPT-2	54.41	11	233.1	1.09	105	6745	4031	160.6	113.9	0.47	1.7	5.6	0.02	2.8	163.4	0.440	0.486	0.583	1.33		
CPT-2	54.48	11	211.5	1.26	115	6752	4034	145.7	103.1	0.61	1.8	7.5	0.07	10.2	155.9	0.440	0.432	0.519	1.18	Low F.S.	
CPT-2	54.55	11	197.3	2.2	125	6760	4038	135.8	96.0	1.13	2.0	11.9	0.18	30.5	166.4	0.440	0.508	0.610	1.39		
CPT-2	54.62	11	167.8	2.78	135	6769	4043	115.5	81.3	1.69	2.1	16.7	0.31	52.3	167.8	0.440	0.519	0.623	1.42		
CPT-2	54.68	11	139.5	3.14	135	6777	4047	95.9	67.2	2.31	2.3	21.8	0.45	78.3	174.2	0.440	0.572	0.686	1.56		
CPT-2	54.75	11	119.6	3.28	135	6786	4052	82.2	57.3	2.82	2.4	26.1	0.56	105.8	188.0	0.440	0.698	0.838	1.90		
CPT-2	54.82	11	79.3	3.25	135	6796	4057	54.5	37.4	4.28	2.7	37.9	0.80	217.9	272.4	0.440	1.959	2.351	5.34	NonLiqfble.	
CPT-2	54.89	11	62	3.15	135	6805	4062	42.6	28.8	5.38	2.8	46.0	0.80	170.3	212.8	0.440	0.976	1.172	2.66	NonLiqfble.	
CPT-2	54.96	11	52.																		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	ΔQ _{tip}	(Q _{tip}) _{es}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	55.31	11	31.2	1.08	135	6862	4093	21.3	13.6	3.89	3.0	55.6	0.80	85.4	106.7	0.441	0.193	0.232	0.53	NonLiqfble.
CPT-2	55.38	11	26.3	0.92	135	6871	4098	18.0	11.2	4.02	3.0	60.7	0.80	71.9	89.9	0.441	0.148	0.177	0.40	NonLiqfble.
CPT-2	55.45	11	22.2	0.87	135	6881	4103	15.2	9.1	4.64	3.1	68.3	0.80	60.7	75.8	0.441	0.121	0.145	0.33	NonLiqfble.
CPT-2	55.53	11	20	0.87	135	6892	4109	13.7	8.1	5.26	3.2	74.2	0.80	54.6	68.3	0.441	0.110	0.131	0.30	NonLiqfble.
CPT-2	55.6	11	20.2	0.91	135	6901	4114	13.8	8.1	5.43	3.2	74.6	0.80	55.1	68.9	0.441	0.110	0.133	0.30	NonLiqfble.
CPT-2	55.67	11	21.4	0.91	135	6911	4119	14.6	8.7	5.07	3.2	71.4	0.80	58.4	72.9	0.441	0.116	0.139	0.32	NonLiqfble.
CPT-2	55.75	11	22.1	0.91	135	6921	4125	15.1	9.0	4.88	3.2	69.7	0.80	60.2	75.3	0.441	0.120	0.144	0.33	NonLiqfble.
CPT-2	55.82	11	22.9	0.87	135	6931	4130	15.6	9.4	4.48	3.1	66.9	0.80	62.4	78.0	0.441	0.124	0.149	0.34	NonLiqfble.
CPT-2	55.89	11	23.3	0.83	135	6940	4135	15.9	9.6	4.19	3.1	65.2	0.80	63.4	79.3	0.441	0.126	0.152	0.34	NonLiqfble.
CPT-2	55.97	11	23.5	0.83	135	6951	4141	16.0	9.7	4.15	3.1	64.8	0.80	63.9	79.9	0.441	0.127	0.153	0.35	NonLiqfble.
CPT-2	56.04	11	23.3	0.83	135	6961	4146	15.8	9.6	4.19	3.1	65.3	0.80	63.3	79.2	0.441	0.126	0.151	0.34	NonLiqfble.
CPT-2	56.12	11	23.6	0.83	135	6971	4151	16.0	9.7	4.13	3.1	64.6	0.80	64.1	80.1	0.441	0.128	0.153	0.35	NonLiqfble.
CPT-2	56.19	11	27.7	0.96	135	6981	4157	18.8	11.6	3.97	3.0	59.4	0.80	75.2	94.0	0.441	0.157	0.189	0.43	NonLiqfble.
CPT-2	56.44	11	36.5	1.36	135	7015	4175	24.7	15.8	4.12	2.9	53.3	0.80	98.9	123.6	0.442	0.256	0.307	0.69	NonLiqfble.
CPT-2	56.63	11	43.4	1.81	135	7040	4188	29.3	19.0	4.54	2.9	51.0	0.80	117.4	146.7	0.442	0.374	0.448	1.02	NonLiqfble.
CPT-2	56.71	11	43.7	1.88	135	7051	4194	29.5	19.1	4.68	2.9	51.5	0.80	118.1	147.6	0.442	0.379	0.455	1.03	NonLiqfble.
CPT-2	56.78	11	39.3	1.92	135	7060	4199	26.5	17.0	5.37	3.0	56.4	0.80	106.1	132.7	0.442	0.297	0.357	0.81	NonLiqfble.
CPT-2	56.81	11	38.7	1.95	135	7064	4202	26.1	16.7	5.55	3.0	57.4	0.80	104.5	130.6	0.442	0.287	0.345	0.78	NonLiqfble.
CPT-2	56.88	11	37.7	2.18	135	7074	4207	25.4	16.2	6.38	3.0	60.8	0.80	101.7	127.2	0.442	0.271	0.325	0.74	NonLiqfble.
CPT-2	56.96	11	36.8	2.35	135	7085	4212	24.8	15.8	7.07	3.1	63.5	0.80	99.2	124.0	0.442	0.257	0.309	0.70	NonLiqfble.
CPT-2	57.04	11	52.4	2.41	135	7096	4218	35.3	23.2	4.93	2.8	48.6	0.80	141.2	176.5	0.442	0.591	0.710	1.61	NonLiqfble.
CPT-2	57.11	11	65.9	2.49	135	7105	4223	44.4	29.5	3.99	2.7	40.7	0.80	177.5	221.8	0.442	1.095	1.314	2.97	NonLiqfble.
CPT-2	57.19	11	70.3	2.56	135	7116	4229	47.3	31.5	3.84	2.7	39.0	0.80	189.2	236.5	0.442	1.310	1.572	3.56	NonLiqfble.
CPT-2	57.27	11	70.1	2.63	135	7127	4235	47.1	31.4	3.95	2.7	39.5	0.80	188.5	235.7	0.442	1.297	1.557	3.52	NonLiqfble.
CPT-2	57.34	11	67.1	2.69	135	7136	4240	45.1	30.0	4.23	2.7	41.4	0.80	180.3	225.4	0.442	1.146	1.375	3.11	NonLiqfble.
CPT-2	57.42	11	65	2.72	135	7147	4246	43.6	28.9	4.43	2.7	42.7	0.80	174.6	218.2	0.442	1.047	1.256	2.84	NonLiqfble.
CPT-2	57.5	11	59.5	2.87	135	7158	4252	39.9	26.3	5.13	2.8	46.9	0.80	159.7	199.6	0.442	0.820	0.984	2.22	NonLiqfble.
CPT-2	57.58	11	54.2	3.1	135	7168	4257	36.3	23.8	6.12	2.9	52.0	0.80	145.4	181.7	0.442	0.638	0.766	1.73	NonLiqfble.
CPT-2	57.65	11	55.9	3.08	135	7178	4263	37.5	24.5	5.89	2.9	50.7	0.80	149.8	187.3	0.442	0.691	0.829	1.87	NonLiqfble.
CPT-2	57.73	11	64.9	2.87	135	7189	4268	43.5	28.7	4.68	2.8	43.8	0.80	173.9	217.3	0.443	1.035	1.241	2.81	NonLiqfble.
CPT-2	57.81	11	69.6	2.6	135	7199	4274	46.6	30.9	3.94	2.7	39.7	0.80	186.3	232.9	0.443	1.255	1.506	3.40	NonLiqfble.
CPT-2	57.89	11	70.4	2.27	135	7210	4280	47.1	31.2	3.40	2.6	37.4	0.80	188.3	235.4	0.443	1.293	1.552	3.51	NonLiqfble.
CPT-2	57.96	11	63.4	2.07	135	7220	4285	42.4	27.9	3.46	2.7	39.5	0.80	169.5	211.9	0.443	0.965	1.158	2.61	NonLiqfble.
CPT-2	58.04	11	53.9	1.9	135	7231	4291	36.0	23.4	3.78	2.8	44.0	0.80	144.0	180.0	0.443	0.622	0.747	1.69	NonLiqfble.
CPT-2	58.12	11	43.7	1.71	135	7241	4297	29.2	18.6	4.27	2.9	50.4	0.80	116.7	145.8	0.443	0.369	0.442	1.00	NonLiqfble.
CPT-2	58.2	11	34.6	1.58	135	7252	4302	23.1	14.4	5.10	3.0	59.2	0.80	92.3	115.4	0.443	0.223	0.268	0.60	NonLiqfble.
CPT-2	58.28	11	28.7	1.52	135	7263	4308	19.1	11.6	6.06	3.1	67.6	0.80	76.5	95.7	0.443	0.161	0.194	0.44	NonLiqfble.
CPT-2	58.36	11	24.7	1.6	135	7274	4314	16.5	9.8	7.60	3.3	77.0	0.80	65.8	82.3	0.443	0.132	0.158	0.36	NonLiqfble.
CPT-2	58.43	11	26.9	1.7	135	7283	4319	17.9	10.8	7.31	3.2	73.6	0.80	71.6	89.5	0.443	0.147	0.176	0.40	NonLiqfble.
CPT-2	58.51	11	37.6	1.76	135	7294	4325	25.0	15.7	5.18	3.0	57.5	0.80	100.1	125.1	0.443	0.262	0.314	0.71	NonLiqfble.
CPT-2	58.59	11	44.3	1.73	135	7305	4331	29.5	18.8	4.26	2.9	50.2	0.80	117.8	147.3	0.443	0.377	0.452	1.02	NonLiqfble.
CPT-2	58.66	11	45.9	1.63	135	7314	4336	30.5	19.5	3.86	2.8	47.8	0.80	122.0	152.5	0.443	0.410	0.492	1.11	NonLiqfble.
CPT-2	58.73	11	43.5	1.61	135	7324	4341	28.9	18.3	4.04	2.9	49.8	0.80	115.6	144.4	0.443	0.360	0.432	0.98	NonLiqfble.
CPT-2	58.81	11	38.9	1.7	135	7334	4347	25.8	16.2	4.83	3.0	55.5	0.80	103.3	129.1	0.443	0.280	0.336	0.76	NonLiqfble.
CPT-2	58.89	11	34.5	1.82	135	7345	4353	22.9	14.2	5.90	3.1	62.4	0.80	91.5	114.4	0.443	0.219	0.263	0.59	NonLiqfble.
CPT-2	58.96	11	32.4	1.97	135	7355	4358	21.5	13.2	6.86	3.1	67.1	0.80	85.9	107.4	0.443	0.195	0.234	0.53	NonLiqfble.
CPT-2	59.04	11	37	2.15	135	7366	4363	24.5	15.3	6.45	3.1	62.4	0.80	98.0	122.5	0.444	0.251	0.301	0.68	NonLiqfble.
CPT-2	59.11	11	45.4	2.45	135	7375	4369	30.1	19.1	5.87	3.0	55.7	0.80	120.2	150.3	0.444	0.396	0.475	1.07	NonLiqfble.
CPT-2	59.19	11	50	2.91	135	7386	4374	33.1	21.2	6.28	2.9	54.8	0.80	132.3	165.4	0.444	0.501	0.601	1.35	NonLiqfble.
CPT-2	59.26	11	54.2	3.41	135	7395	4379	35.8	23.1	6.75	2.9	54.5	0.80	143.3	179.2	0.444	0.615	0.738	1.66	NonLiqfble.
CPT-2	59.33	11	59.5	3.7	135	7405	4384	39.3	25.4	6.63	2.9	52.2	0.80	157.3	196.6	0.444	0.787	0.944	2.13	NonLiqfble.
CPT-2	59.41	11	67.1	3.74	135	7415	4390	44.3	28.9	5.90	2.8	47.7	0.80	177.2	221.5	0.444	1.091	1.310	2.95	NonLiqfble.
CPT-2	59.48	11	74.7	3.71	135	7425	4395	49.3	32.3	5.23	2.8	43.6	0.80	197.2	246.5	0.444	1.473	1.767	3.98	NonLiqfble.
CPT-2	59.56	11	72.1	3.67	135	7436	4401	47.6	31.1	5.37	2.8	44.7	0.80	190.2	237.8	0.444	1.330	1.596	3.60	NonLiqfble.
CPT-2	59.63	11	60.6	3.36	135	7445	4406	39.9	25.8	5.91	2.9	49.8	0.80	159.8	199.7	0.444	0.821	0.985	2.22	NonLiqfble.
CPT-2	59.7	11	51.2	3.27	135	7455	4411	33.7	21.5	6.89	3.0	56.3	0.80	134.9	168.6	0.444	0.526	0.631	1.42	NonLiqfble.
CPT-2	59.78	11	50.4	3.16	135	7465	4417	33.2	21.1	6.77	3.0	56.3	0.80	132.7	165.9	0.444	0.505	0.606	1.36	NonLiqfble.
CPT-2	59.85	11	64.8	2.95	135	7475	4422	42.6	27.6	4.83	2.8	45.0	0.80	170.5	213.2	0.444	0.981	1.177	2.65	NonLiqfble.
CPT-2	59.92	11	82.3	3.09	135	7484	4427	54.1	35.5	3.93	2.6	37.4	0.80	216.5	270.6	0.444	1.923	2.307	5.19	NonLiqfble.
CPT-2	60	11	92.2	3.45	135	7495	4433	60.6	39.9	3.90	2.6	35.5	0.80	242.4	302.9	0.391	2.666	3.199	8.18	NonLiqfble.
CPT-2	60.07	11	93	3.7	135	7505	4438	61.1	40.2	4.15	2.6	36.3	0.80	244.3	305.4	0.391	2.729	3.275	8.38	NonLiqfble.
CPT-2	60.12	11																		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{IN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{IN}	$(Q_{IN})_{ES}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	60.57	11	45	3.45	135	7572	4475	29.4	18.4	8.37	3.1	63.7	0.80	117.7	147.2	0.391	0.376	0.452	1.15	NonLiqfble.
CPT-2	60.64	11	48.7	3.35	135	7582	4480	31.8	20.0	7.46	3.0	59.4	0.80	127.3	159.2	0.391	0.455	0.546	1.40	NonLiqfble.
CPT-2	60.71	11	56.7	3.16	135	7591	4485	37.0	23.6	5.97	2.9	51.7	0.80	148.2	185.2	0.391	0.671	0.805	2.06	NonLiqfble.
CPT-2	60.78	11	63.8	2.95	135	7600	4490	41.7	26.7	4.92	2.8	45.9	0.80	166.6	208.3	0.391	0.921	1.105	2.82	NonLiqfble.
CPT-2	60.86	11	66.5	2.81	135	7611	4496	43.4	27.9	4.48	2.8	43.6	0.80	173.6	217.0	0.391	1.030	1.236	3.16	NonLiqfble.
CPT-2	60.93	11	66	3.11	135	7621	4501	43.0	27.6	5.00	2.8	45.6	0.80	172.2	215.2	0.392	1.007	1.209	3.09	NonLiqfble.
CPT-2	61	11	62.5	3.43	135	7630	4506	40.7	26.0	5.84	2.9	49.4	0.80	163.0	203.7	0.392	0.866	1.039	2.65	NonLiqfble.
CPT-2	61.08	11	57.9	3.64	135	7641	4512	37.7	24.0	6.73	2.9	53.7	0.80	150.9	188.6	0.392	0.704	0.844	2.16	NonLiqfble.
CPT-2	61.15	11	57.7	3.62	135	7650	4517	37.6	23.8	6.72	2.9	53.7	0.80	150.3	187.8	0.392	0.696	0.835	2.13	NonLiqfble.
CPT-2	61.22	11	75.3	3.57	135	7660	4522	49.0	31.6	5.00	2.8	43.2	0.80	196.0	245.0	0.392	1.447	1.737	4.43	NonLiqfble.
CPT-2	61.29	11	108.4	3.43	135	7669	4527	70.5	46.2	3.28	2.5	30.9	0.69	157.9	228.4	0.392	1.188	1.425	3.64	
CPT-2	61.36	11	140.1	3.12	135	7679	4532	91.1	60.1	2.29	2.3	23.1	0.48	84.7	175.8	0.392	0.585	0.702	1.79	
CPT-2	61.43	11	166.6	2.7	135	7688	4537	108.2	71.7	1.66	2.2	17.8	0.34	56.1	164.3	0.392	0.492	0.591	1.51	
CPT-2	61.5	11	188.6	2.36	135	7698	4542	122.4	81.3	1.28	2.0	14.3	0.25	40.3	162.7	0.392	0.481	0.577	1.47	
CPT-2	61.56	11	208.8	2.28	125	7706	4546	135.5	90.1	1.11	2.0	12.3	0.19	32.7	168.1	0.392	0.522	0.627	1.60	
CPT-2	61.64	11	221.7	2.36	125	7716	4551	143.8	95.7	1.08	1.9	11.6	0.18	30.6	174.3	0.392	0.573	0.687	1.75	
CPT-2	61.7	11	237.4	2.49	125	7723	4555	153.9	102.5	1.07	1.9	10.9	0.16	28.7	182.6	0.392	0.646	0.775	1.98	
CPT-2	61.77	11	251.4	2.61	125	7732	4560	162.9	108.5	1.05	1.9	10.3	0.14	27.1	190.0	0.392	0.718	0.862	2.20	
CPT-2	61.84	11	264.1	2.59	125	7741	4564	171.0	114.0	1.00	1.9	9.6	0.12	23.8	194.9	0.392	0.768	0.922	2.35	
CPT-2	61.91	11	276.8	2.56	125	7749	4568	179.2	119.4	0.94	1.8	8.8	0.10	20.5	199.7	0.392	0.821	0.985	2.51	
CPT-2	61.98	11	287.8	2.72	125	7758	4573	186.2	124.1	0.96	1.8	8.7	0.10	20.4	206.6	0.392	0.901	1.081	2.75	
CPT-2	62.04	11	306.1	3.21	125	7766	4576	198.0	132.0	1.06	1.8	8.9	0.10	23.2	221.2	0.392	1.086	1.303	3.32	
CPT-2	62.11	11	323.3	3.34	125	7774	4581	209.0	139.4	1.05	1.8	8.4	0.09	21.1	230.2	0.392	1.214	1.457	3.71	
CPT-2	62.18	11	330.8	3.65	125	7783	4585	213.7	142.5	1.12	1.8	8.7	0.10	23.6	237.3	0.393	1.323	1.587	4.04	
CPT-2	62.24	11	340.9	3.57	125	7791	4589	220.2	146.8	1.06	1.8	8.2	0.08	20.4	240.6	0.393	1.375	1.650	4.20	
CPT-2	62.31	11	320	3.53	125	7799	4593	206.6	137.6	1.12	1.8	9.0	0.11	24.5	231.1	0.393	1.227	1.473	3.75	
CPT-2	62.38	11	309	3.45	125	7808	4598	199.4	132.7	1.13	1.9	9.3	0.12	25.9	225.3	0.393	1.144	1.373	3.50	
CPT-2	62.45	11	278.9	3.26	135	7817	4602	179.9	119.5	1.19	1.9	10.4	0.14	30.4	210.3	0.393	0.945	1.134	2.89	
CPT-2	62.52	11	281	2.98	125	7826	4607	181.1	120.2	1.08	1.9	9.7	0.13	25.9	207.1	0.393	0.906	1.087	2.77	
CPT-2	62.59	11	283.3	2.67	125	7835	4612	182.5	121.1	0.96	1.8	8.9	0.10	21.0	203.5	0.393	0.864	1.037	2.64	
CPT-2	62.66	11	289	2.41	125	7844	4616	186.1	123.5	0.85	1.8	8.0	0.08	16.1	202.2	0.393	0.849	1.019	2.59	
CPT-2	62.72	11	291.6	2.36	125	7851	4620	187.7	124.5	0.82	1.8	7.7	0.07	14.9	202.6	0.393	0.853	1.024	2.60	
CPT-2	62.79	11	285.9	2.11	115	7860	4624	184.0	121.9	0.75	1.8	7.4	0.06	12.5	196.4	0.393	0.785	0.942	2.40	
CPT-2	62.86	11	285	2.22	125	7868	4628	183.3	121.4	0.79	1.8	7.7	0.07	14.3	197.6	0.393	0.797	0.957	2.43	
CPT-2	62.93	11	278.2	1.88	115	7877	4632	178.8	118.4	0.69	1.8	7.1	0.06	10.7	189.5	0.393	0.713	0.856	2.18	
CPT-2	62.99	11	267.1	1.68	115	7884	4635	171.7	113.5	0.64	1.7	7.0	0.05	9.9	181.5	0.393	0.636	0.763	1.94	
CPT-2	63.07	11	256.4	1.39	115	7893	4640	164.7	108.8	0.55	1.7	6.6	0.04	7.4	172.1	0.393	0.554	0.665	1.69	
CPT-2	63.13	11	240.8	1.22	105	7900	4643	154.6	102.0	0.52	1.7	6.8	0.05	7.6	162.2	0.393	0.477	0.573	1.46	
CPT-2	63.2	11	233	1.16	105	7907	4646	149.6	98.6	0.51	1.7	6.9	0.05	8.1	157.7	0.394	0.445	0.534	1.36	
CPT-2	63.27	11	226	1.22	115	7915	4649	145.0	95.5	0.55	1.8	7.5	0.07	10.6	155.6	0.394	0.430	0.516	1.31	
CPT-2	63.33	11	222.9	1.15	115	7922	4652	143.0	94.1	0.53	1.8	7.4	0.07	10.0	153.0	0.394	0.413	0.495	1.26	
CPT-2	63.4	11	212.8	1.07	105	7930	4655	136.5	89.7	0.51	1.8	7.7	0.07	10.6	147.0	0.394	0.375	0.451	1.14	Low F.S.
CPT-2	63.46	11	209.2	1.01	105	7936	4658	134.1	88.1	0.49	1.8	7.6	0.07	10.2	144.3	0.394	0.359	0.431	1.09	Low F.S.
CPT-2	63.53	11	211.9	0.9	105	7943	4661	135.8	89.2	0.43	1.7	7.0	0.05	7.6	143.4	0.394	0.354	0.425	1.08	Low F.S.
CPT-2	63.6	11	216.7	0.96	105	7951	4664	138.8	91.2	0.45	1.7	7.0	0.05	7.8	146.6	0.394	0.373	0.448	1.14	Low F.S.
CPT-2	63.66	11	216.9	0.93	105	7957	4667	138.9	91.2	0.44	1.7	6.8	0.05	7.2	146.1	0.394	0.370	0.444	1.13	Low F.S.
CPT-2	63.73	11	220.6	0.89	105	7964	4670	141.2	92.7	0.41	1.7	6.5	0.04	5.8	147.0	0.394	0.376	0.451	1.14	Low F.S.
CPT-2	63.8	11	218.2	0.89	105	7972	4673	139.7	91.7	0.42	1.7	6.6	0.04	6.2	145.9	0.394	0.369	0.443	1.12	Low F.S.
CPT-2	63.87	11	218.9	0.83	105	7979	4675	140.1	91.9	0.39	1.7	6.3	0.03	5.0	145.1	0.395	0.364	0.437	1.11	Low F.S.
CPT-2	63.94	11	217.9	0.79	105	7986	4678	139.4	91.4	0.37	1.7	6.2	0.03	4.4	143.8	0.395	0.357	0.428	1.08	Low F.S.
CPT-2	64	11	212.5	0.79	105	7993	4681	135.9	89.0	0.38	1.7	6.4	0.04	5.5	141.4	0.395	0.343	0.411	1.04	Low F.S.
CPT-2	64.07	11	200.6	0.77	105	8000	4684	128.2	83.9	0.39	1.7	7.0	0.05	7.3	135.6	0.395	0.312	0.374	0.95	Liquefaction
CPT-2	64.14	11	196.7	0.96	105	8007	4687	125.7	82.2	0.50	1.8	8.2	0.09	11.9	137.6	0.395	0.322	0.387	0.98	Liquefaction
CPT-2	64.21	11	190.6	1.19	115	8015	4690	121.8	79.5	0.64	1.9	9.8	0.13	17.8	139.6	0.395	0.333	0.400	1.01	Low F.S.
CPT-2	64.27	11	189.4	1.1	115	8022	4693	121.0	79.0	0.59	1.9	9.5	0.12	16.3	137.3	0.395	0.321	0.385	0.97	Liquefaction
CPT-2	64.34	11	196.2	1.13	115	8030	4697	125.3	81.8	0.59	1.8	9.1	0.11	15.4	140.7	0.395	0.339	0.407	1.03	Low F.S.
CPT-2	64.4	11	214	1.26	115	8037	4700	136.6	89.3	0.60	1.8	8.5	0.09	14.1	150.7	0.395	0.398	0.478	1.21	
CPT-2	64.47	11	219.8	1.4	115	8045	4704	140.2	91.7	0.65	1.8	8.7	0.10	15.4	155.6	0.395	0.431	0.517	1.31	
CPT-2	64.54	11	241.5	1.47	115	8053	4707	154.0	100.9	0.62	1.8	7.7	0.07	12.1	166.1	0.396	0.506	0.608	1.54	
CPT-2	64.6	11	246.8	1.48	115	8060	4710	157.3	103.0	0.61	1.8	7.5	0.07	11.2	168.6	0.396	0.525	0.630	1.59	
CPT-2	64.67	11	246.4	1.48	115	8068	4714	157.0	102.8	0.61	1.8	7.5	0.07	11.3	168.3	0.396	0.524	0.628	1.59	
CPT-2	64.74	11	239.8	1.51	115	8076	4718	152.8	99.9	0.64	1.8	8.0	0.08	13.2	166.0	0.396	0.505	0.606	1.53	
CPT-2	64.8	11	23																	

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{CPT}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{CPT}	$(Q_{CPT})_{95}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-2	65.14	11	272	1.56	115	8122	4739	172.9	113.0	0.58	1.7	6.6	0.04	7.7	180.6	0.396	0.628	0.754	1.90	
CPT-2	65.21	11	281.5	1.57	115	8130	4743	178.8	116.9	0.57	1.7	6.2	0.03	6.1	185.0	0.396	0.669	0.802	2.02	
CPT-2	65.28	11	288.3	1.49	115	8138	4746	183.1	119.7	0.52	1.7	5.7	0.02	3.7	186.8	0.396	0.686	0.823	2.08	
CPT-2	65.34	11	286.6	1.38	105	8145	4749	182.0	118.9	0.49	1.7	5.5	0.01	2.3	184.3	0.397	0.662	0.794	2.00	
CPT-2	65.42	11	281.7	1.19	105	8153	4753	178.8	116.8	0.43	1.6	5.1	0.00	0.3	179.1	0.397	0.614	0.737	1.86	
CPT-2	65.48	11	285	1.15	105	8159	4755	180.8	118.1	0.41	1.6	4.8	0.00	0.0	180.8	0.397	0.630	0.756	1.91	
CPT-2	65.55	11	281.9	1.3	105	8167	4758	178.8	116.7	0.47	1.7	5.4	0.01	2.0	180.8	0.397	0.630	0.756	1.90	
CPT-2	65.62	11	271.4	1.23	105	8174	4761	172.1	112.2	0.46	1.7	5.6	0.02	2.8	174.9	0.397	0.578	0.693	1.75	
CPT-2	65.69	11	260.8	1.31	105	8181	4764	165.3	107.7	0.51	1.7	6.3	0.04	6.1	171.4	0.397	0.548	0.658	1.66	
CPT-2	65.76	11	246.1	1.46	115	8189	4767	156.0	101.5	0.60	1.8	7.6	0.07	11.4	167.4	0.397	0.516	0.619	1.56	
CPT-2	65.83	11	225.9	1.56	115	8197	4771	143.1	92.9	0.70	1.8	9.0	0.11	17.3	160.4	0.397	0.464	0.557	1.40	
CPT-2	65.9	11	223.3	1.49	115	8205	4775	141.4	91.8	0.68	1.8	9.0	0.11	16.7	158.1	0.397	0.448	0.537	1.35	
CPT-2	65.97	11	220.3	1.3	115	8213	4778	139.4	90.5	0.60	1.8	8.4	0.09	14.0	153.4	0.397	0.416	0.499	1.26	
CPT-2	66.03	11	224.7	1.07	105	8220	4782	142.2	92.2	0.49	1.8	7.2	0.06	9.0	151.1	0.398	0.401	0.481	1.21	
CPT-2	66.1	11	228.1	1.16	105	8227	4784	144.3	93.6	0.52	1.8	7.4	0.06	9.9	154.2	0.398	0.421	0.505	1.27	
CPT-2	66.17	11	228.4	1.11	105	8234	4787	144.4	93.7	0.49	1.8	7.2	0.06	9.0	153.4	0.398	0.416	0.499	1.25	
CPT-2	66.24	11	225.2	1.12	105	8242	4790	142.4	92.3	0.51	1.8	7.4	0.06	9.8	152.2	0.398	0.408	0.489	1.23	
CPT-2	66.31	11	221.4	1.13	115	8249	4793	139.9	90.6	0.52	1.8	7.7	0.07	10.8	150.7	0.398	0.398	0.478	1.20	
CPT-2	66.38	11	215.9	0.81	105	8257	4797	136.4	88.3	0.38	1.7	6.5	0.04	5.9	142.3	0.398	0.348	0.417	1.05	Low F.S.
CPT-2	66.45	11	217.4	0.76	105	8265	4800	137.3	88.8	0.36	1.7	6.2	0.03	4.7	142.0	0.398	0.346	0.415	1.04	Low F.S.
CPT-2	66.52	11	220.9	0.89	105	8272	4803	139.5	90.2	0.41	1.7	6.7	0.04	6.5	146.0	0.398	0.369	0.443	1.11	Low F.S.
CPT-2	66.58	11	224.2	1	105	8278	4806	141.5	91.5	0.45	1.7	7.0	0.05	7.9	149.4	0.398	0.390	0.468	1.18	Low F.S.
CPT-2	66.65	11	235.4	0.94	105	8286	4809	148.5	96.1	0.41	1.7	6.2	0.03	4.8	153.3	0.398	0.415	0.498	1.25	
CPT-2	66.68	11	225	0.98	105	8289	4810	141.9	91.8	0.44	1.7	6.9	0.05	7.4	149.4	0.398	0.390	0.468	1.17	Low F.S.
CPT-2	66.73	11	219.1	1.01	105	8294	4812	138.2	89.3	0.47	1.8	7.3	0.06	9.1	147.3	0.399	0.377	0.453	1.14	Low F.S.
CPT-2	66.8	11	239.6	0.99	105	8301	4815	151.1	97.8	0.42	1.7	6.2	0.03	4.9	156.0	0.399	0.433	0.520	1.30	
CPT-2	66.87	11	246.8	1	105	8309	4818	155.6	100.7	0.41	1.7	5.9	0.02	3.8	159.4	0.399	0.457	0.548	1.37	
CPT-2	66.93	11	242.4	1.05	105	8315	4821	152.8	98.8	0.44	1.7	6.3	0.03	5.5	158.3	0.399	0.449	0.538	1.35	
CPT-2	67	11	237	1.11	105	8322	4824	149.3	96.5	0.48	1.7	6.8	0.05	7.6	156.9	0.399	0.439	0.527	1.32	
CPT-2	67.07	11	225.2	1.26	115	8330	4827	141.8	91.6	0.57	1.8	8.0	0.08	12.6	154.4	0.399	0.422	0.507	1.27	
CPT-2	67.14	11	206.4	1.5	115	8338	4830	129.9	83.7	0.74	1.9	10.2	0.14	21.0	151.0	0.399	0.400	0.480	1.20	
CPT-2	67.21	11	193.4	1.71	125	8346	4834	121.7	78.3	0.90	2.0	12.1	0.19	28.3	150.0	0.399	0.394	0.473	1.18	Low F.S.
CPT-2	67.28	11	185.6	1.91	125	8355	4838	116.7	75.0	1.05	2.0	13.5	0.23	34.5	151.3	0.399	0.402	0.482	1.21	
CPT-2	67.35	11	177.7	2.22	135	8363	4843	111.7	71.6	1.28	2.1	15.5	0.28	43.6	155.3	0.399	0.429	0.514	1.29	
CPT-2	67.42	11	170.7	2.72	135	8373	4848	107.3	68.7	1.63	2.2	18.1	0.35	57.7	165.0	0.399	0.497	0.597	1.49	
CPT-2	67.5	11	169.2	3.19	135	8384	4854	106.3	68.0	1.93	2.2	19.8	0.40	69.8	176.0	0.399	0.587	0.705	1.76	
CPT-2	67.57	11	167.1	3.42	135	8393	4859	104.9	67.0	2.10	2.3	20.9	0.42	77.0	181.9	0.399	0.639	0.767	1.92	
CPT-2	67.64	11	167.5	3.38	135	8402	4864	105.1	67.1	2.07	2.2	20.7	0.42	75.7	180.8	0.399	0.630	0.756	1.89	
CPT-2	67.71	11	170.9	3.1	135	8412	4869	107.2	68.4	1.86	2.2	19.4	0.38	66.8	174.0	0.400	0.570	0.683	1.71	
CPT-2	67.78	11	180.1	2.86	135	8421	4874	112.9	72.1	1.63	2.2	17.5	0.33	56.8	169.7	0.400	0.534	0.641	1.60	
CPT-2	67.85	11	196.7	2.67	135	8431	4879	123.2	78.9	1.39	2.1	15.2	0.27	46.3	169.6	0.400	0.533	0.640	1.60	
CPT-2	67.91	11	224.9	2.28	125	8439	4883	140.8	90.3	1.03	2.0	11.7	0.18	30.8	171.6	0.400	0.550	0.660	1.65	
CPT-2	67.98	11	253.2	2.24	125	8448	4888	158.5	101.8	0.90	1.9	9.8	0.13	23.3	181.8	0.400	0.639	0.766	1.92	
CPT-2	68.05	11	283.3	2.16	125	8456	4892	177.2	114.0	0.77	1.8	8.0	0.08	15.6	192.9	0.400	0.747	0.897	2.24	
CPT-2	68.12	11	309.9	2.38	125	8465	4896	193.8	124.8	0.78	1.8	7.4	0.06	13.5	207.2	0.400	0.908	1.089	2.72	
CPT-2	68.18	11	340	2.68	125	8473	4900	212.5	137.0	0.80	1.7	6.9	0.05	11.6	224.1	0.400	1.127	1.353	3.38	
CPT-2	68.23	11	335.7	2.88	125	8479	4903	209.8	135.1	0.87	1.8	7.5	0.07	15.1	224.9	0.400	1.137	1.365	3.41	
CPT-2	68.3	11	342	2.96	125	8488	4908	213.6	137.6	0.88	1.8	7.4	0.07	14.9	228.5	0.400	1.190	1.428	3.57	
CPT-2	68.37	11	349	2.84	125	8496	4912	217.9	140.3	0.82	1.7	7.0	0.05	12.0	229.9	0.400	1.210	1.452	3.63	
CPT-2	68.43	11	357.7	2.57	115	8504	4916	223.2	143.7	0.73	1.7	6.1	0.03	6.9	230.2	0.400	1.214	1.457	3.64	
CPT-2	68.5	11	356.5	2.38	115	8512	4920	222.4	143.1	0.68	1.7	5.8	0.02	4.8	227.1	0.400	1.170	1.404	3.51	
CPT-2	68.57	11	354.6	2.54	115	8520	4923	221.1	142.3	0.73	1.7	6.2	0.03	7.2	228.3	0.400	1.187	1.424	3.56	
CPT-2	68.63	11	343.2	2.85	125	8527	4926	213.9	137.5	0.84	1.8	7.2	0.06	13.4	227.3	0.400	1.173	1.407	3.52	
CPT-2	68.7	11	324.2	2.96	125	8536	4931	202.0	129.7	0.93	1.8	8.2	0.08	18.7	220.7	0.400	1.080	1.296	3.24	
CPT-2	68.77	11	300.9	2.9	125	8544	4935	187.4	120.2	0.98	1.8	9.1	0.11	22.8	210.2	0.400	0.944	1.133	2.83	
CPT-2	68.83	11	298.6	2.57	125	8552	4939	185.9	119.1	0.87	1.8	8.4	0.09	18.7	204.6	0.400	0.877	1.052	2.63	
CPT-2	68.9	11	280.3	2.45	125	8561	4943	174.4	111.6	0.89	1.8	9.0	0.11	20.9	195.3	0.400	0.773	0.928	2.32	
CPT-2	68.97	11	266.6	2.6	125	8569	4948	165.8	106.0	0.99	1.9	10.1	0.14	26.2	192.1	0.400	0.739	0.887	2.21	
CPT-2	69.04	11	261.3	2.62	125	8578	4952	162.5	103.8	1.02	1.9	10.5	0.15	27.8	190.3	0.401	0.721	0.865	2.16	
CPT-2	69.1	11	268	2.31	125	8586	4956	166.6	106.4	0.88	1.9	9.3	0.11	21.6	188.1	0.401	0.699	0.839	2.09	
CPT-2	69.17	11	275.7	2.05	115	8594	4960	171.3	109.4	0.76	1.8	8.2	0.09	16.0	187.3	0.401	0.691	0.829	2.07	
CPT-2	69.24	11	284.6	2	115	8602	4964	176.7	112.9	0.71	1.8	7.7	0.07	13.5	190.2	0.401	0.720	0.864	2.16	
CPT-2	69.3	11	270.2	1.96	115	8609	4967	167.7	107.0	0.74	1.8	8.2</								

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(1N)}$	$(Q_{(1N)})_N$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	0.5	11	83.1	3.09	135	68	68	159.2	2460.2	3.72	1.8	8.0	0.08	13.6	172.8	0.350	0.560	0.672	1.92	Above W.T.
CPT-3	0.6	11	60.2	2.86	135	81	81	115.3	1484.8	4.75	1.9	10.9	0.16	21.5	136.8	0.350	0.318	0.382	1.09	Above W.T.
CPT-3	0.69	11	32.3	2.54	135	93	93	61.9	692.2	7.88	2.2	19.3	0.38	38.0	99.9	0.350	0.173	0.207	0.59	Above W.T.
CPT-3	0.79	11	29	2.38	135	107	107	55.5	542.6	8.22	2.3	21.0	0.43	41.4	97.0	0.350	0.165	0.198	0.56	Above W.T.
CPT-3	0.88	11	39.3	2.01	135	119	119	75.3	660.3	5.12	2.0	13.9	0.24	23.6	98.9	0.350	0.170	0.204	0.58	Above W.T.
CPT-3	0.97	11	55.9	2.19	135	131	131	107.1	852.4	3.92	1.9	10.2	0.14	17.3	124.3	0.350	0.259	0.310	0.89	Above W.T.
CPT-3	1.06	11	54.5	2.4	135	143	143	104.4	760.4	4.41	2.0	11.8	0.18	23.0	127.4	0.350	0.272	0.327	0.93	Above W.T.
CPT-3	1.15	11	44.8	2.54	135	155	155	85.8	575.9	5.68	2.1	15.7	0.29	34.5	120.3	0.350	0.242	0.290	0.83	Above W.T.
CPT-3	1.24	11	38.5	2.39	135	167	167	73.7	458.8	6.22	2.2	18.0	0.35	39.2	113.0	0.350	0.214	0.257	0.73	Above W.T.
CPT-3	1.32	11	31.7	2.11	135	178	178	60.7	354.6	6.67	2.2	20.4	0.41	42.5	103.3	0.350	0.182	0.219	0.62	Above W.T.
CPT-3	1.41	11	25.6	1.82	135	190	190	49.0	267.9	7.14	2.3	23.3	0.49	46.8	95.8	0.350	0.162	0.194	0.55	Above W.T.
CPT-3	1.5	11	20.1	1.56	135	203	203	38.5	197.4	7.80	2.4	27.1	0.59	55.4	93.9	0.350	0.157	0.188	0.54	Above W.T.
CPT-3	1.59	11	16.4	1.37	135	215	215	31.4	151.7	8.41	2.5	30.8	0.69	69.4	100.8	0.350	0.175	0.210	0.60	Above W.T.
CPT-3	1.68	11	14.2	1.23	135	227	227	27.2	124.2	8.73	2.6	33.5	0.76	87.0	114.2	0.350	0.218	0.262	0.75	Above W.T.
CPT-3	1.77	11	14.3	1.17	135	239	239	27.4	118.6	8.25	2.6	33.1	0.75	81.8	109.2	0.350	0.201	0.241	0.69	Above W.T.
CPT-3	1.85	11	15.9	1.19	135	250	250	30.5	126.3	7.54	2.5	30.9	0.69	68.2	98.6	0.350	0.169	0.203	0.58	Above W.T.
CPT-3	1.95	11	15.4	1.23	135	263	263	29.5	116.0	8.06	2.5	32.9	0.75	86.3	115.8	0.350	0.224	0.269	0.77	Above W.T.
CPT-3	2.03	11	15.7	1.34	135	274	274	30.1	113.5	8.61	2.6	34.3	0.78	107.9	138.0	0.350	0.324	0.389	1.11	Above W.T.
CPT-3	2.12	11	16.1	1.42	135	286	286	30.8	111.5	8.90	2.6	35.1	0.80	123.3	154.2	0.350	0.421	0.505	1.44	Above W.T.
CPT-3	2.19	11	17.2	1.46	135	296	296	32.9	115.3	8.56	2.6	34.0	0.77	113.3	146.3	0.350	0.371	0.445	1.27	Above W.T.
CPT-3	2.23	11	17.6	1.47	135	301	301	33.7	115.9	8.42	2.6	33.7	0.77	110.2	144.0	0.350	0.357	0.429	1.22	Above W.T.
CPT-3	2.32	11	17.7	1.48	135	313	313	33.9	112.0	8.44	2.6	34.1	0.78	118.0	151.9	0.350	0.406	0.487	1.39	Above W.T.
CPT-3	2.41	11	17.7	1.48	135	325	325	33.9	107.8	8.44	2.6	34.5	0.79	126.6	160.5	0.350	0.465	0.558	1.59	Above W.T.
CPT-3	2.5	11	17.5	1.46	135	338	338	33.5	102.7	8.42	2.6	35.1	0.80	134.1	167.6	0.350	0.518	0.621	1.77	Above W.T.
CPT-3	2.59	11	16.6	1.43	135	350	350	31.8	93.9	8.71	2.6	36.7	0.80	127.2	159.0	0.350	0.454	0.544	1.55	Above W.T.
CPT-3	2.68	11	16.9	1.4	135	362	362	32.4	92.4	8.37	2.6	36.3	0.80	129.5	161.8	0.350	0.474	0.569	1.62	Above W.T.
CPT-3	2.77	11	16	1.33	135	374	374	30.6	84.5	8.41	2.6	37.5	0.80	122.6	153.2	0.350	0.414	0.497	1.42	Above W.T.
CPT-3	2.86	11	15.6	1.29	135	386	386	29.9	79.8	8.37	2.7	38.1	0.80	119.5	149.4	0.350	0.390	0.468	1.34	Above W.T.
CPT-3	2.96	11	15.1	1.28	135	400	400	28.9	74.5	8.59	2.7	39.5	0.80	115.7	144.6	0.350	0.361	0.433	1.24	Above W.T.
CPT-3	3.05	11	14.8	1.24	135	412	412	28.3	70.9	8.50	2.7	40.0	0.80	113.4	141.7	0.350	0.345	0.414	1.18	Above W.T.
CPT-3	3.14	11	14.3	1.21	135	424	424	27.4	66.4	8.59	2.7	41.1	0.80	109.5	136.9	0.350	0.319	0.383	1.09	Above W.T.
CPT-3	3.23	11	14	1.19	135	436	436	26.8	63.2	8.63	2.7	41.9	0.80	107.3	134.1	0.350	0.304	0.365	1.04	Above W.T.
CPT-3	3.32	11	13.5	1.16	135	448	448	25.9	59.2	8.74	2.7	43.1	0.80	103.4	129.3	0.350	0.281	0.337	0.96	Above W.T.
CPT-3	3.42	11	13.6	1.17	135	462	462	26.0	57.9	8.75	2.8	43.4	0.80	104.2	130.2	0.350	0.285	0.343	0.98	Above W.T.
CPT-3	3.51	11	13.7	1.22	135	474	474	26.2	56.8	9.06	2.8	44.4	0.80	105.0	131.2	0.350	0.290	0.348	0.99	Above W.T.
CPT-3	3.6	11	13.4	1.27	135	486	486	25.7	54.1	9.65	2.8	46.4	0.80	102.7	128.3	0.350	0.276	0.332	0.95	Above W.T.
CPT-3	3.69	11	14.1	1.33	135	498	498	27.0	55.6	9.60	2.8	45.9	0.80	108.0	135.0	0.350	0.309	0.371	1.06	Above W.T.
CPT-3	3.79	11	14.4	1.39	135	512	512	27.6	55.3	9.83	2.8	46.4	0.80	110.3	137.9	0.350	0.324	0.389	1.11	Above W.T.
CPT-3	3.88	11	14.6	1.42	135	524	524	27.9	54.7	9.90	2.8	46.7	0.80	111.6	139.6	0.350	0.333	0.399	1.14	Above W.T.
CPT-3	3.97	11	15.2	1.42	135	536	536	28.7	55.7	9.51	2.8	45.6	0.80	114.9	143.6	0.350	0.356	0.427	1.22	Above W.T.
CPT-3	4.07	11	15.1	1.43	135	549	549	28.2	53.9	9.65	2.8	46.4	0.80	112.7	140.9	0.350	0.340	0.408	1.17	Above W.T.
CPT-3	4.16	11	15.2	1.43	135	562	562	28.1	53.1	9.59	2.8	46.5	0.80	112.3	140.3	0.350	0.337	0.404	1.15	Above W.T.
CPT-3	4.25	11	15	1.41	135	574	574	27.4	51.3	9.58	2.8	47.1	0.80	109.6	137.0	0.350	0.319	0.383	1.09	Above W.T.
CPT-3	4.34	11	14.6	1.39	135	586	586	26.4	48.8	9.72	2.8	48.1	0.80	105.6	132.0	0.350	0.294	0.352	1.01	Above W.T.
CPT-3	4.43	11	14.3	1.35	135	598	598	25.6	46.8	9.64	2.8	48.7	0.80	102.3	127.9	0.350	0.275	0.330	0.94	Above W.T.
CPT-3	4.52	11	13.7	1.28	135	610	610	24.3	43.9	9.56	2.9	49.6	0.80	97.1	121.3	0.350	0.246	0.295	0.84	Above W.T.
CPT-3	4.61	11	13.5	1.23	135	622	622	23.7	42.4	9.33	2.9	49.7	0.80	94.7	118.4	0.350	0.234	0.281	0.80	Above W.T.
CPT-3	4.71	11	12.9	1.22	135	636	636	22.4	39.6	9.70	2.9	51.6	0.80	89.5	111.9	0.350	0.210	0.252	0.72	Above W.T.
CPT-3	4.8	11	12.8	1.19	125	648	648	22.0	38.5	9.54	2.9	51.8	0.80	88.0	110.0	0.350	0.204	0.245	0.70	Above W.T.
CPT-3	4.89	11	12.1	1.17	125	659	659	20.6	35.7	9.94	2.9	54.0	0.80	82.5	103.1	0.350	0.182	0.218	0.62	Above W.T.
CPT-3	4.98	11	12.3	1.15	125	671	671	20.8	35.7	9.61	2.9	53.3	0.80	83.1	103.9	0.350	0.184	0.221	0.63	Above W.T.
CPT-3	5.07	11	12	1.14	125	682	682	20.1	34.2	9.78	2.9	54.4	0.80	80.4	100.5	0.350	0.175	0.209	0.60	Above W.T.
CPT-3	5.17	11	12.1	1.12	125	694	694	20.1	33.8	9.53	2.9	54.1	0.80	80.4	100.5	0.350	0.174	0.209	0.60	Above W.T.
CPT-3	5.26	11	11.9	1.09	125	706	706	19.6	32.7	9.44	2.9	54.5	0.80	78.4	98.0	0.350	0.168	0.201	0.57	Above W.T.
CPT-3	5.35	11	12	1.12	125	717	717	19.6	32.5	9.62	2.9	55.0	0.80	78.4	98.1	0.350	0.168	0.201	0.57	Above W.T.
CPT-3	5.44	11	11.5	1.13	125	728	728	18.6	30.6	10.15	3.0	57.3	0.80	74.6	93.2	0.350	0.155	0.186	0.53	Above W.T.
CPT-3	5.5	11	11.8	1.13	125	736	736	19.0	31.1	9.88	3.0	56.4	0.80	76.1	95.2	0.350	0.160	0.192	0.55	Above W.T.
CPT-3	5.54	11	12.4	1.13	125	741	741	19.9	32.5	9.39	2.9	54.5	0.80	79.8	99.7	0.350	0.172	0.207	0.59	Above W.T.
CPT-3	5.63	11	12.4	1.14	125	752	752	19.8	32.0	9.48	2.9	55.0	0.80	79.2	98.9	0.350	0.170	0.204	0.58	Above W.T.
CPT-3	5.72	11	12.7	1.14	125	763	763	20.1	32.3	9.25	2.9	54.3	0.80	80.5	100.6	0.350	0.175	0.210	0.60	Above W.T.
CPT-3	5.81	11	12.3	1.15	125	774	774	19.3	30.8	9.65	3.0	56.1	0.80	77.4	96.7	0.350	0.164	0.197	0.56	Above W.T.
CPT-3	5.91	11	12.4	1.18	125	787	787	19.3	30.5	9.83	3.0	56.7	0.80	77.4	96.7	0.350	0.164	0.197	0.56	Above W.T.
CPT-3	6	11	12.1	1.18	125	798	798	18.7	29.3	10.0										

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c15}	Corr. Tip Q	Friction Ratio F	IC	F.C. (%)	K_{cPT}	Δq_{c15}	$(Q_{c15})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	6.34	11	11.8	1.16	125	841	841	17.8	27.1	10.19	3.0	59.8	0.80	71.2	89.0	0.350	0.146	0.175	0.50	Above W.T.
CPT-3	6.6	11	11.6	1.11	125	873	873	17.2	25.6	9.94	3.0	60.4	0.80	68.7	85.9	0.350	0.139	0.167	0.48	Above W.T.
CPT-3	6.76	11	12.2	1.09	125	893	893	17.9	26.3	9.27	3.0	58.3	0.80	71.5	89.3	0.350	0.146	0.176	0.50	Above W.T.
CPT-3	6.84	11	12.3	1.1	125	903	903	17.9	26.2	9.28	3.0	58.4	0.80	71.6	89.5	0.350	0.147	0.176	0.50	Above W.T.
CPT-3	6.94	11	11.7	1.12	125	916	916	16.9	24.5	9.96	3.0	61.3	0.80	67.7	84.6	0.350	0.136	0.164	0.47	Above W.T.
CPT-3	7.03	11	12.2	1.12	125	927	927	17.5	25.3	9.54	3.0	59.7	0.80	70.1	87.7	0.350	0.143	0.171	0.49	Above W.T.
CPT-3	7.12	11	12.4	1.16	125	938	938	17.7	25.4	9.72	3.0	60.0	0.80	70.9	88.6	0.350	0.145	0.174	0.50	Above W.T.
CPT-3	7.21	11	12.8	1.2	125	949	949	18.2	26.0	9.74	3.0	59.6	0.80	72.7	90.9	0.350	0.150	0.180	0.51	Above W.T.
CPT-3	7.3	11	13.6	1.24	135	961	961	19.2	27.3	9.45	3.0	58.0	0.80	76.8	96.0	0.350	0.162	0.195	0.56	Above W.T.
CPT-3	7.39	11	14.1	1.28	135	973	973	19.8	28.0	9.40	3.0	57.4	0.80	79.1	98.9	0.350	0.170	0.204	0.58	Above W.T.
CPT-3	7.48	11	14.6	1.33	135	985	985	20.4	28.6	9.43	3.0	57.0	0.80	81.4	101.8	0.350	0.178	0.214	0.61	Above W.T.
CPT-3	7.57	11	14.2	1.36	135	997	997	19.7	27.5	9.93	3.0	58.9	0.80	78.7	98.4	0.350	0.169	0.202	0.58	Above W.T.
CPT-3	7.66	11	14.3	1.35	135	1009	1009	19.7	27.3	9.79	3.0	58.7	0.80	78.8	98.5	0.350	0.169	0.203	0.58	Above W.T.
CPT-3	7.75	11	14.6	1.36	135	1021	1021	20.0	27.6	9.65	3.0	58.2	0.80	80.0	99.9	0.350	0.173	0.207	0.59	Above W.T.
CPT-3	7.84	11	14.2	1.33	135	1033	1033	19.3	26.5	9.72	3.0	59.2	0.80	77.3	96.6	0.350	0.164	0.197	0.56	Above W.T.
CPT-3	7.93	11	13.4	1.3	135	1046	1046	18.1	24.6	10.10	3.0	61.5	0.80	72.5	90.7	0.350	0.149	0.179	0.51	Above W.T.
CPT-3	8.04	11	13.6	1.27	135	1060	1060	18.3	24.6	9.72	3.0	60.7	0.80	73.1	91.4	0.350	0.151	0.181	0.52	Above W.T.
CPT-3	8.13	11	14.4	1.23	135	1073	1073	19.2	25.8	8.87	3.0	57.8	0.80	77.0	96.2	0.350	0.163	0.195	0.56	Above W.T.
CPT-3	8.23	11	14.3	1.23	135	1086	1086	19.0	25.3	8.94	3.0	58.3	0.80	75.9	94.9	0.350	0.160	0.191	0.55	Above W.T.
CPT-3	8.32	11	14.5	1.26	135	1098	1098	19.1	25.4	9.03	3.0	58.5	0.80	76.6	95.7	0.350	0.162	0.194	0.55	Above W.T.
CPT-3	8.41	11	13.8	1.31	135	1110	1110	18.1	23.8	9.89	3.0	61.7	0.80	72.5	90.6	0.350	0.149	0.179	0.51	Above W.T.
CPT-3	8.5	11	14.5	1.35	135	1123	1123	18.9	24.8	9.69	3.0	60.4	0.80	75.7	94.7	0.350	0.159	0.191	0.54	Above W.T.
CPT-3	8.59	11	14.8	1.38	135	1135	1135	19.2	25.1	9.70	3.0	60.3	0.80	76.9	96.1	0.350	0.163	0.195	0.56	Above W.T.
CPT-3	8.68	11	16.1	1.44	135	1147	1147	20.8	27.1	9.27	3.0	57.8	0.80	83.2	104.0	0.350	0.185	0.222	0.63	Above W.T.
CPT-3	8.78	11	17.6	1.53	135	1160	1160	22.6	29.3	8.99	3.0	55.6	0.80	90.4	113.0	0.350	0.214	0.257	0.73	Above W.T.
CPT-3	8.87	11	19.9	1.59	135	1172	1172	25.4	32.9	8.23	2.9	51.6	0.80	101.7	127.1	0.350	0.271	0.325	0.93	Above W.T.
CPT-3	8.96	11	20.5	1.65	135	1185	1185	26.1	33.6	8.29	2.9	51.4	0.80	104.2	130.3	0.350	0.286	0.343	0.98	Above W.T.
CPT-3	9.07	11	20.4	1.67	135	1199	1199	25.8	33.0	8.43	2.9	52.0	0.80	103.1	128.9	0.350	0.279	0.335	0.96	Above W.T.
CPT-3	9.15	11	21.1	1.63	135	1210	1210	26.5	33.9	7.95	2.9	50.4	0.80	106.2	132.7	0.350	0.297	0.357	1.02	Above W.T.
CPT-3	9.25	11	22	1.62	135	1224	1224	27.5	34.9	7.57	2.8	48.9	0.80	110.1	137.6	0.350	0.322	0.387	1.10	Above W.T.
CPT-3	9.34	11	20.2	1.59	135	1236	1236	25.1	31.7	8.12	2.9	52.0	0.80	100.6	125.7	0.350	0.265	0.318	0.91	Above W.T.
CPT-3	9.43	11	21	1.62	135	1248	1248	26.0	32.6	7.95	2.9	51.1	0.80	104.0	130.0	0.350	0.285	0.341	0.97	Above W.T.
CPT-3	9.52	11	22.2	1.66	135	1260	1260	27.4	34.2	7.70	2.9	49.6	0.80	109.4	136.8	0.350	0.318	0.382	1.09	Above W.T.
CPT-3	9.61	11	23.5	1.7	135	1272	1272	28.8	35.9	7.44	2.8	48.1	0.80	115.3	144.1	0.350	0.358	0.430	1.23	Above W.T.
CPT-3	9.71	11	22.6	1.73	135	1286	1286	27.6	34.1	7.88	2.9	50.1	0.80	110.3	137.9	0.350	0.324	0.389	1.11	Above W.T.
CPT-3	9.8	11	21.9	1.73	135	1298	1298	26.6	32.7	8.14	2.9	51.5	0.80	106.4	133.0	0.350	0.299	0.358	1.02	Above W.T.
CPT-3	9.89	11	21.8	1.7	135	1310	1310	26.4	32.3	8.04	2.9	51.5	0.80	105.4	131.8	0.350	0.293	0.351	1.00	Above W.T.
CPT-3	9.98	11	22.1	1.7	135	1322	1322	26.6	32.4	7.93	2.9	51.1	0.80	106.4	133.0	0.350	0.299	0.358	1.02	Above W.T.
CPT-3	10.07	11	22.2	1.71	135	1334	1334	26.6	32.3	7.94	2.9	51.3	0.80	106.4	132.9	0.343	0.299	0.358	1.04	Above W.T.
CPT-3	10.17	11	23	1.72	135	1348	1348	27.4	33.1	7.70	2.9	50.2	0.80	109.6	137.0	0.343	0.319	0.383	1.12	Above W.T.
CPT-3	10.26	11	22.2	1.72	135	1360	1360	26.3	31.6	7.99	2.9	51.7	0.80	105.4	131.7	0.343	0.292	0.351	1.02	Above W.T.
CPT-3	10.35	11	21.9	1.72	135	1372	1372	25.9	30.9	8.11	2.9	52.5	0.80	103.5	129.3	0.343	0.281	0.337	0.98	Above W.T.
CPT-3	10.44	11	23.9	1.72	135	1384	1384	28.1	33.5	7.41	2.9	49.2	0.80	112.4	140.5	0.343	0.338	0.406	1.18	Above W.T.
CPT-3	10.53	11	24.9	1.67	135	1397	1397	29.2	34.6	6.90	2.8	47.3	0.80	116.6	145.8	0.343	0.368	0.442	1.29	Above W.T.
CPT-3	10.62	11	22.6	1.61	135	1409	1409	26.3	31.1	7.35	2.9	50.4	0.80	105.4	131.7	0.343	0.293	0.351	1.02	Above W.T.
CPT-3	10.71	11	20.3	1.61	135	1421	1421	23.6	27.6	8.22	2.9	54.9	0.80	94.3	117.8	0.343	0.232	0.279	0.81	Above W.T.
CPT-3	10.81	11	20.8	1.62	135	1434	1434	24.0	28.0	8.07	2.9	54.2	0.80	96.1	120.1	0.343	0.241	0.290	0.84	Above W.T.
CPT-3	10.9	11	20.6	1.61	135	1447	1447	23.7	27.5	8.10	2.9	54.7	0.80	94.8	118.5	0.343	0.235	0.282	0.82	Above W.T.
CPT-3	10.99	11	21.1	1.64	135	1459	1459	24.2	27.9	8.05	2.9	54.2	0.80	96.7	120.9	0.343	0.244	0.293	0.85	Above W.T.
CPT-3	11.08	11	21.2	1.65	135	1471	1465	24.2	27.9	8.06	2.9	54.3	0.80	96.9	121.2	0.345	0.245	0.295	0.85	NonLiqfble.
CPT-3	11.17	11	21.9	1.64	135	1483	1472	25.0	28.7	7.75	2.9	52.9	0.80	99.9	124.9	0.346	0.261	0.313	0.91	NonLiqfble.
CPT-3	11.26	11	22	1.61	135	1495	1478	25.0	28.7	7.58	2.9	52.5	0.80	100.1	125.2	0.347	0.262	0.315	0.91	NonLiqfble.
CPT-3	11.36	11	21.1	1.58	135	1509	1486	24.0	27.4	7.77	2.9	53.9	0.80	95.8	119.8	0.349	0.240	0.288	0.83	NonLiqfble.
CPT-3	11.44	11	20.7	1.54	135	1519	1491	23.5	26.7	7.72	2.9	54.2	0.80	93.8	117.3	0.350	0.230	0.276	0.79	NonLiqfble.
CPT-3	11.54	11	20.7	1.49	135	1533	1499	23.4	26.6	7.47	2.9	53.7	0.80	93.6	117.0	0.351	0.229	0.275	0.78	NonLiqfble.
CPT-3	11.62	11	21.1	1.47	135	1544	1504	23.8	27.0	7.23	2.9	52.7	0.80	95.2	119.0	0.352	0.237	0.284	0.81	NonLiqfble.
CPT-3	11.71	11	21.3	1.46	135	1556	1511	24.0	27.2	7.11	2.9	52.3	0.80	95.9	119.9	0.354	0.240	0.288	0.82	NonLiqfble.
CPT-3	11.81	11	20.7	1.43	135	1569	1518	23.2	26.2	7.18	2.9	53.2	0.80	93.0	116.2	0.355	0.226	0.271	0.76	NonLiqfble.
CPT-3	11.9	11	19.5	1.39	135	1582	1525	21.9	24.5	7.43	2.9	55.1	0.80	87.4	109.3	0.356	0.201	0.242	0.68	NonLiqfble.
CPT-3	11.99	11	19.1	1.34	135	1594	1531	21.4	23.9	7.32	3.0	55.4	0.80	85.4	106.8	0.357	0.193	0.232	0.65	NonLiqfble.
CPT-3	12.08	11	18.1	1.3	135	1606	1538	20.2	22.5	7.52	3.0	57.1	0.80	80.8	101.0	0.359	0.176	0.211	0.59	NonLiqfble.
CPT-3	12.17	11	17.8	1.26	135	1618	1544	19.8	22.0	7.42	3.0	57.3	0.80	79.3	99.1	0.360	0.170	0.205	0.57	Non

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
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 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	$\Delta Q_{(1N)}$	$(Q_{(1N)})_N$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	12.69	11	19.5	1.32	135	1688	1582	21.5	23.6	7.08	2.9	55.0	0.80	85.8	107.3	0.366	0.195	0.234	0.64	NonLiqfble.
CPT-3	12.78	11	19.7	1.36	135	1700	1589	21.6	23.7	7.22	3.0	55.2	0.80	86.5	108.1	0.367	0.198	0.237	0.65	NonLiqfble.
CPT-3	12.87	11	20.1	1.38	135	1712	1595	22.0	24.1	7.17	2.9	54.8	0.80	88.1	110.1	0.369	0.204	0.245	0.66	NonLiqfble.
CPT-3	12.96	11	20.2	1.37	135	1725	1602	22.1	24.1	7.08	2.9	54.5	0.80	88.3	110.4	0.370	0.205	0.246	0.67	NonLiqfble.
CPT-3	13.05	11	20.4	1.37	135	1737	1608	22.3	24.3	7.01	2.9	54.2	0.80	89.0	111.3	0.371	0.208	0.250	0.67	NonLiqfble.
CPT-3	13.14	11	20.3	1.35	135	1749	1615	22.1	24.0	6.95	2.9	54.2	0.80	88.4	110.5	0.372	0.206	0.247	0.66	NonLiqfble.
CPT-3	13.23	11	19.7	1.33	135	1761	1621	21.4	23.2	7.07	3.0	55.3	0.80	85.6	107.0	0.373	0.194	0.233	0.62	NonLiqfble.
CPT-3	13.32	11	19.7	1.33	135	1773	1628	21.4	23.1	7.07	3.0	55.4	0.80	85.5	106.8	0.374	0.193	0.232	0.62	NonLiqfble.
CPT-3	13.41	11	19.3	1.33	135	1785	1634	20.9	22.5	7.23	3.0	56.3	0.80	83.6	104.4	0.375	0.186	0.223	0.59	NonLiqfble.
CPT-3	13.5	11	18.9	1.33	135	1798	1641	20.4	21.9	7.39	3.0	57.3	0.80	81.7	102.1	0.376	0.179	0.215	0.57	NonLiqfble.
CPT-3	13.59	11	18.3	1.32	135	1810	1647	19.7	21.1	7.59	3.0	58.6	0.80	78.9	98.6	0.377	0.169	0.203	0.54	NonLiqfble.
CPT-3	13.68	11	18.5	1.29	135	1822	1654	19.9	21.3	7.33	3.0	57.8	0.80	79.6	99.5	0.378	0.172	0.206	0.54	NonLiqfble.
CPT-3	13.77	11	18	1.26	135	1834	1660	19.3	20.6	7.38	3.0	58.6	0.80	77.3	96.6	0.379	0.164	0.197	0.52	NonLiqfble.
CPT-3	13.86	11	16.7	1.25	135	1846	1667	17.9	18.9	7.92	3.0	61.9	0.80	71.6	89.5	0.380	0.147	0.176	0.46	NonLiqfble.
CPT-3	13.95	11	15.8	1.21	135	1858	1674	16.9	17.8	8.14	3.1	63.8	0.80	67.6	84.5	0.381	0.136	0.163	0.43	NonLiqfble.
CPT-3	14.04	11	13.7	1.14	125	1870	1680	14.6	15.2	8.93	3.2	69.5	0.80	58.5	73.1	0.382	0.116	0.140	0.37	NonLiqfble.
CPT-3	14.13	11	12.9	1.04	125	1882	1686	13.7	14.2	8.70	3.2	70.5	0.80	55.0	68.7	0.383	0.110	0.132	0.35	NonLiqfble.
CPT-3	14.22	11	13	0.96	125	1893	1691	13.8	14.2	7.96	3.1	68.5	0.80	55.3	69.2	0.384	0.111	0.133	0.35	NonLiqfble.
CPT-3	14.31	11	12.8	0.88	125	1904	1697	13.6	14.0	7.43	3.1	67.5	0.80	54.4	68.0	0.385	0.109	0.131	0.34	NonLiqfble.
CPT-3	14.39	11	12.7	0.83	125	1914	1702	13.5	13.8	7.07	3.1	66.7	0.80	53.9	67.3	0.386	0.108	0.130	0.34	NonLiqfble.
CPT-3	14.48	11	12.5	0.82	125	1925	1708	13.2	13.5	7.11	3.1	67.3	0.80	52.9	66.2	0.387	0.107	0.128	0.33	NonLiqfble.
CPT-3	14.57	11	12.5	0.81	125	1937	1713	13.2	13.5	7.02	3.1	67.1	0.80	52.9	66.1	0.388	0.107	0.128	0.33	NonLiqfble.
CPT-3	14.66	11	12.9	0.8	125	1948	1719	13.6	13.9	6.71	3.1	65.5	0.80	54.5	68.1	0.389	0.109	0.131	0.34	NonLiqfble.
CPT-3	14.75	11	14	0.83	125	1959	1725	14.8	15.1	6.37	3.1	62.4	0.80	59.0	73.8	0.390	0.117	0.141	0.36	NonLiqfble.
CPT-3	14.84	11	15.2	0.86	125	1970	1730	16.0	16.4	6.05	3.0	59.5	0.80	64.0	79.9	0.391	0.128	0.153	0.39	NonLiqfble.
CPT-3	14.93	11	16.5	0.89	125	1982	1736	17.3	17.9	5.74	3.0	56.6	0.80	69.3	86.6	0.392	0.140	0.169	0.43	NonLiqfble.
CPT-3	15.02	11	16.4	0.93	125	1993	1741	17.2	17.7	6.04	3.0	57.8	0.80	68.8	86.0	0.393	0.139	0.167	0.42	NonLiqfble.
CPT-3	15.11	11	16.1	0.91	125	2004	1747	16.9	17.3	6.03	3.0	58.3	0.80	67.4	84.3	0.394	0.136	0.163	0.41	NonLiqfble.
CPT-3	15.2	11	15.7	0.85	125	2015	1753	16.4	16.8	5.79	3.0	58.2	0.80	65.6	82.0	0.395	0.131	0.158	0.40	NonLiqfble.
CPT-3	15.29	11	14.5	0.75	125	2027	1758	15.1	15.3	5.56	3.0	59.4	0.80	60.5	75.6	0.396	0.120	0.144	0.36	NonLiqfble.
CPT-3	15.38	11	13	0.73	125	2038	1764	13.5	13.6	6.09	3.1	64.0	0.80	54.2	67.7	0.397	0.109	0.131	0.33	NonLiqfble.
CPT-3	15.47	11	12.3	0.69	125	2049	1770	12.8	12.7	6.12	3.1	65.6	0.80	51.2	64.0	0.398	0.104	0.125	0.31	NonLiqfble.
CPT-3	15.55	11	10.1	0.67	125	2059	1775	10.5	10.2	7.39	3.2	75.2	0.80	42.0	52.5	0.398	0.093	0.112	0.28	NonLiqfble.
CPT-3	15.63	11	12.1	0.64	125	2069	1780	12.5	12.4	5.78	3.1	65.0	0.80	50.2	62.7	0.399	0.103	0.124	0.31	NonLiqfble.
CPT-3	15.73	11	11.6	0.61	125	2082	1786	12.0	11.8	5.78	3.1	66.2	0.80	48.0	60.1	0.400	0.100	0.120	0.30	NonLiqfble.
CPT-3	15.85	11	11.9	0.59	125	2097	1793	12.3	12.1	5.44	3.1	64.5	0.80	49.2	61.5	0.401	0.102	0.122	0.30	NonLiqfble.
CPT-3	15.94	11	12.8	0.57	125	2108	1799	13.2	13.1	4.85	3.0	60.5	0.80	52.8	66.0	0.402	0.107	0.128	0.32	NonLiqfble.
CPT-3	16.03	11	13.1	0.58	125	2119	1805	13.5	13.3	4.82	3.0	59.8	0.80	54.0	67.5	0.403	0.109	0.130	0.32	NonLiqfble.
CPT-3	16.12	11	13.1	0.6	125	2130	1810	13.5	13.3	4.99	3.0	60.6	0.80	53.9	67.4	0.404	0.108	0.130	0.32	NonLiqfble.
CPT-3	16.21	11	13.2	0.6	125	2142	1816	13.6	13.4	4.95	3.0	60.3	0.80	54.2	67.8	0.405	0.109	0.131	0.32	NonLiqfble.
CPT-3	16.3	11	12.3	0.56	125	2153	1822	12.6	12.3	4.99	3.1	62.4	0.80	50.4	63.0	0.406	0.103	0.124	0.31	NonLiqfble.
CPT-3	16.39	11	12	0.52	125	2164	1827	12.3	11.9	4.76	3.1	62.2	0.80	49.1	61.4	0.407	0.102	0.122	0.30	NonLiqfble.
CPT-3	16.48	11	11.4	0.52	125	2175	1833	11.7	11.2	5.04	3.1	64.8	0.80	46.6	58.3	0.408	0.098	0.118	0.29	NonLiqfble.
CPT-3	16.57	11	11.4	0.51	125	2187	1838	11.6	11.2	4.95	3.1	64.5	0.80	46.5	58.2	0.408	0.098	0.118	0.29	NonLiqfble.
CPT-3	16.66	11	12	0.5	125	2198	1844	12.2	11.8	4.59	3.0	61.8	0.80	48.9	61.1	0.409	0.101	0.121	0.30	NonLiqfble.
CPT-3	16.75	11	11.7	0.52	125	2209	1850	11.9	11.5	4.91	3.1	63.8	0.80	47.6	59.5	0.410	0.100	0.120	0.29	NonLiqfble.
CPT-3	16.84	11	11.7	0.53	125	2220	1855	11.9	11.4	5.01	3.1	64.3	0.80	47.5	59.4	0.411	0.100	0.119	0.29	NonLiqfble.
CPT-3	16.93	11	12.1	0.53	125	2232	1861	12.3	11.8	4.83	3.1	62.7	0.80	49.1	61.4	0.412	0.101	0.122	0.30	NonLiqfble.
CPT-3	17.02	11	12.1	0.52	125	2243	1867	12.3	11.8	4.74	3.1	62.5	0.80	49.0	61.3	0.413	0.101	0.122	0.29	NonLiqfble.
CPT-3	17.11	11	13.8	0.53	125	2254	1872	14.0	13.5	4.18	3.0	56.9	0.80	55.8	69.8	0.413	0.112	0.134	0.32	NonLiqfble.
CPT-3	17.2	11	13.6	0.52	125	2265	1878	13.7	13.3	4.17	3.0	57.3	0.80	54.9	68.7	0.414	0.110	0.132	0.32	NonLiqfble.
CPT-3	17.29	11	12.4	0.52	125	2277	1884	12.5	12.0	4.62	3.0	61.6	0.80	50.0	62.5	0.415	0.103	0.123	0.30	NonLiqfble.
CPT-3	17.38	11	12.4	0.49	125	2288	1889	12.5	11.9	4.35	3.0	60.6	0.80	49.9	62.4	0.416	0.103	0.123	0.30	NonLiqfble.
CPT-3	17.47	11	12.5	0.49	125	2299	1895	12.6	12.0	4.32	3.0	60.3	0.80	50.3	62.8	0.417	0.103	0.124	0.30	NonLiqfble.
CPT-3	17.56	11	13.4	0.49	125	2310	1900	13.4	12.9	4.00	3.0	57.3	0.80	53.8	67.2	0.417	0.108	0.130	0.31	NonLiqfble.
CPT-3	17.65	11	13.1	0.51	125	2322	1906	13.1	12.5	4.27	3.0	59.1	0.80	52.5	65.6	0.418	0.106	0.128	0.31	NonLiqfble.
CPT-3	17.74	11	13.2	0.54	125	2333	1912	13.2	12.6	4.49	3.0	59.9	0.80	52.8	66.0	0.419	0.107	0.128	0.31	NonLiqfble.
CPT-3	17.83	11	13.3	0.56	125	2344	1917	13.3	12.6	4.62	3.0	60.3	0.80	53.2	66.4	0.420	0.107	0.129	0.31	NonLiqfble.
CPT-3	17.92	11	13	0.55	125	2355	1923	13.0	12.3	4.65	3.0	61.1	0.80	51.9	64.9	0.421	0.105	0.126	0.30	NonLiqfble.
CPT-3	18.01	11	12.9	0.56	125	2367	1929	12.9	12.1	4.78	3.0	61.9	0.80	51.4	64.3	0.421	0.105	0.126	0.30	NonLiqfble.
CPT-3	18.1	11	13.3	0.57	125	2378	1934	13.2	12.5	4.71	3.0	60.9	0.80	52.9	66.2	0.422	0.107	0.128	0.30	NonLiqfble.
CPT-3	18.18	11	13.6	0.57	125	2388	1939	13.5	12.8</											

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Conc	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$A_{q(1N)}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-3	18.72	11	11.1	0.61	125	2455	1973	10.9	10.0	6.18	3.2	71.8	0.80	43.7	54.7	0.427	0.095	0.114	0.27	NonLiqfble.
CPT-3	18.82	11	10.8	0.59	125	2468	1979	10.6	9.7	6.17	3.2	72.7	0.80	42.5	53.1	0.428	0.094	0.113	0.26	NonLiqfble.
CPT-3	18.89	11	12.1	0.57	125	2477	1984	11.9	10.9	5.25	3.1	66.2	0.80	47.5	59.4	0.429	0.100	0.119	0.28	NonLiqfble.
CPT-3	18.98	11	11.1	0.53	125	2488	1989	10.9	9.9	5.38	3.2	69.2	0.80	43.6	54.4	0.429	0.095	0.114	0.27	NonLiqfble.
CPT-3	19.08	11	11	0.49	125	2500	1996	10.8	9.8	5.03	3.1	68.2	0.80	43.1	53.9	0.430	0.095	0.113	0.26	NonLiqfble.
CPT-3	19.17	11	11.3	0.44	115	2512	2001	11.1	10.0	4.38	3.1	64.9	0.80	44.2	55.3	0.431	0.096	0.115	0.27	NonLiqfble.
CPT-3	19.25	11	11.4	0.43	115	2521	2005	11.1	10.1	4.24	3.1	64.1	0.80	44.6	55.7	0.432	0.096	0.115	0.27	NonLiqfble.
CPT-3	19.35	11	10.7	0.43	115	2532	2011	10.4	9.4	4.56	3.1	67.3	0.80	41.8	52.2	0.432	0.093	0.112	0.26	NonLiqfble.
CPT-3	19.43	11	10.2	0.46	115	2542	2015	9.9	8.9	5.15	3.2	71.3	0.80	39.8	49.7	0.433	0.091	0.110	0.25	NonLiqfble.
CPT-3	19.52	11	10.5	0.54	125	2552	2020	10.2	9.1	5.85	3.2	73.1	0.80	40.9	51.1	0.434	0.092	0.111	0.26	NonLiqfble.
CPT-3	19.62	11	10.9	0.64	125	2564	2026	10.6	9.5	6.65	3.2	74.8	0.80	42.4	53.0	0.435	0.094	0.113	0.26	NonLiqfble.
CPT-3	19.7	11	16.5	0.66	125	2574	2031	16.0	15.0	4.34	3.0	55.3	0.80	64.1	80.1	0.435	0.128	0.153	0.35	NonLiqfble.
CPT-3	19.8	11	32.3	0.72	135	2587	2037	31.3	30.4	2.32	2.5	32.6	0.74	87.7	119.0	0.436	0.237	0.284	0.65	Liquefaction
CPT-3	19.89	11	38.9	0.86	135	2599	2044	37.6	36.8	2.29	2.5	29.5	0.66	71.5	109.2	0.437	0.201	0.241	0.55	Liquefaction
CPT-3	19.97	11	38.7	0.96	135	2610	2049	37.4	36.5	2.57	2.5	31.1	0.70	85.9	123.3	0.437	0.254	0.305	0.70	Liquefaction
CPT-3	20.07	11	33.4	0.91	135	2623	2057	32.2	31.2	2.84	2.6	34.8	0.80	125.9	158.1	0.429	0.447	0.537	1.25	
CPT-3	20.16	11	25.9	0.8	135	2636	2063	24.9	23.8	3.25	2.7	41.4	0.80	99.8	124.7	0.430	0.261	0.313	0.73	NonLiqfble.
CPT-3	20.24	11	20.8	0.72	125	2646	2069	20.0	18.8	3.70	2.8	47.8	0.80	80.0	100.0	0.430	0.173	0.208	0.48	NonLiqfble.
CPT-3	20.33	11	16.6	0.7	125	2658	2075	15.9	14.7	4.58	3.0	56.7	0.80	63.8	79.7	0.431	0.127	0.153	0.35	NonLiqfble.
CPT-3	20.42	11	14	0.71	125	2669	2080	13.4	12.2	5.61	3.1	64.9	0.80	53.7	67.1	0.431	0.108	0.130	0.30	NonLiqfble.
CPT-3	20.51	11	12.9	0.69	125	2680	2086	12.4	11.1	5.97	3.1	68.5	0.80	49.4	61.8	0.432	0.102	0.122	0.28	NonLiqfble.
CPT-3	20.61	11	13.1	0.66	125	2693	2092	12.5	11.2	5.62	3.1	66.9	0.80	50.1	62.7	0.433	0.103	0.123	0.29	NonLiqfble.
CPT-3	20.69	11	14.6	0.68	125	2703	2097	13.9	12.6	5.13	3.1	62.3	0.80	55.8	69.7	0.433	0.112	0.134	0.31	NonLiqfble.
CPT-3	20.78	11	15.1	0.72	125	2714	2103	14.4	13.1	5.24	3.0	61.9	0.80	57.6	72.0	0.434	0.115	0.138	0.32	NonLiqfble.
CPT-3	20.87	11	13.7	0.78	125	2725	2109	13.1	11.7	6.32	3.1	68.3	0.80	52.2	65.3	0.435	0.106	0.127	0.29	NonLiqfble.
CPT-3	20.96	11	13.2	0.78	125	2736	2114	12.6	11.2	6.59	3.2	70.3	0.80	50.2	62.8	0.435	0.103	0.124	0.28	NonLiqfble.
CPT-3	21.05	11	13	0.75	125	2748	2120	12.4	11.0	6.45	3.2	70.4	0.80	49.4	61.8	0.436	0.102	0.122	0.28	NonLiqfble.
CPT-3	21.14	11	12.9	0.71	125	2759	2125	12.2	10.8	6.16	3.2	69.7	0.80	49.0	61.2	0.437	0.101	0.122	0.28	NonLiqfble.
CPT-3	21.22	11	12.9	0.68	125	2769	2130	12.2	10.8	5.91	3.1	68.9	0.80	48.9	61.1	0.437	0.101	0.122	0.28	NonLiqfble.
CPT-3	21.31	11	12.5	0.62	125	2780	2136	11.8	10.4	5.58	3.1	68.7	0.80	47.3	59.2	0.438	0.099	0.119	0.27	NonLiqfble.
CPT-3	21.4	11	11.2	0.57	125	2791	2142	10.6	9.2	5.81	3.2	72.9	0.80	42.4	52.9	0.438	0.094	0.113	0.26	NonLiqfble.
CPT-3	21.49	11	11.1	0.53	125	2803	2147	10.5	9.0	5.46	3.2	72.0	0.80	41.9	52.4	0.439	0.093	0.112	0.26	NonLiqfble.
CPT-3	21.58	11	10.9	0.52	125	2814	2153	10.3	8.8	5.48	3.2	72.6	0.80	41.1	51.4	0.440	0.093	0.111	0.25	NonLiqfble.
CPT-3	21.67	11	11.7	0.57	125	2825	2159	11.0	9.5	5.54	3.2	70.8	0.80	44.1	55.1	0.440	0.096	0.115	0.26	NonLiqfble.
CPT-3	21.76	11	12	0.67	125	2836	2164	11.3	9.8	6.33	3.2	73.0	0.80	45.1	56.4	0.441	0.097	0.116	0.26	NonLiqfble.
CPT-3	21.85	11	13.2	0.94	125	2848	2170	12.4	10.8	7.98	3.2	75.3	0.80	49.6	62.0	0.441	0.102	0.123	0.28	NonLiqfble.
CPT-3	21.94	11	16.2	1.36	135	2859	2176	15.2	13.6	9.21	3.2	72.9	0.80	60.8	76.0	0.442	0.121	0.145	0.33	NonLiqfble.
CPT-3	22.02	11	20.8	1.51	135	2870	2181	19.5	17.7	7.80	3.1	63.0	0.80	77.9	97.4	0.442	0.166	0.199	0.45	NonLiqfble.
CPT-3	22.11	11	25.3	1.62	135	2882	2188	23.7	21.8	6.79	3.0	55.7	0.80	94.7	118.3	0.443	0.234	0.281	0.63	NonLiqfble.
CPT-3	22.22	11	28.7	1.69	135	2897	2196	26.8	24.8	6.20	2.9	51.4	0.80	107.2	134.0	0.444	0.304	0.364	0.82	NonLiqfble.
CPT-3	22.31	11	28.1	1.74	135	2909	2202	26.2	24.2	6.53	2.9	52.9	0.80	104.8	131.0	0.444	0.289	0.347	0.78	NonLiqfble.
CPT-3	22.4	11	27.2	1.79	135	2921	2209	25.3	23.3	6.95	2.9	54.9	0.80	101.3	126.6	0.445	0.269	0.322	0.73	NonLiqfble.
CPT-3	22.49	11	25.5	1.82	135	2933	2215	23.7	21.7	7.57	3.0	58.0	0.80	94.8	118.5	0.445	0.235	0.282	0.63	NonLiqfble.
CPT-3	22.58	11	23.4	1.79	135	2945	2222	21.7	19.7	8.16	3.0	61.6	0.80	86.9	108.6	0.446	0.199	0.239	0.54	NonLiqfble.
CPT-3	22.67	11	20.2	1.67	135	2957	2229	18.7	16.8	8.92	3.1	67.1	0.80	74.9	93.6	0.446	0.156	0.188	0.42	NonLiqfble.
CPT-3	22.75	11	18	1.57	135	2968	2234	16.7	14.8	9.51	3.2	71.6	0.80	66.6	83.3	0.447	0.134	0.161	0.36	NonLiqfble.
CPT-3	22.84	11	23.1	1.5	135	2980	2241	21.4	19.3	6.94	3.0	58.7	0.80	85.4	106.8	0.447	0.193	0.232	0.52	NonLiqfble.
CPT-3	22.93	11	27.6	1.4	135	2992	2247	25.5	23.2	5.36	2.9	50.0	0.80	101.9	127.4	0.448	0.272	0.327	0.73	NonLiqfble.
CPT-3	23.02	11	22.4	1.29	135	3005	2254	20.6	18.5	6.17	3.0	57.3	0.80	82.6	103.2	0.448	0.182	0.219	0.49	NonLiqfble.
CPT-3	23.11	11	18.2	1.2	135	3017	2260	16.7	14.8	7.19	3.1	65.4	0.80	67.0	83.7	0.449	0.135	0.162	0.36	NonLiqfble.
CPT-3	23.2	11	16.2	1.16	135	3029	2267	14.9	12.9	7.90	3.2	70.6	0.80	59.5	74.4	0.449	0.118	0.142	0.32	NonLiqfble.
CPT-3	23.28	11	21.3	1.25	135	3040	2273	19.5	17.4	6.32	3.0	59.1	0.80	78.2	97.7	0.450	0.167	0.200	0.45	NonLiqfble.
CPT-3	23.38	11	24.3	1.26	135	3053	2280	22.3	20.0	5.53	2.9	53.6	0.80	89.1	111.3	0.450	0.208	0.250	0.56	NonLiqfble.
CPT-3	23.46	11	18.8	1.26	135	3064	2286	17.2	15.1	7.30	3.1	65.2	0.80	68.8	86.0	0.451	0.139	0.167	0.37	NonLiqfble.
CPT-3	23.55	11	17.7	1.27	135	3076	2292	16.2	14.1	7.86	3.1	68.4	0.80	64.7	80.9	0.451	0.129	0.155	0.34	NonLiqfble.
CPT-3	23.64	11	18.1	1.27	135	3088	2299	16.5	14.4	7.67	3.1	67.4	0.80	66.1	82.6	0.452	0.132	0.159	0.35	NonLiqfble.
CPT-3	24.01	11	14.9	1.12	135	3138	2326	13.5	11.5	8.40	3.2	75.1	0.80	54.1	67.6	0.454	0.109	0.130	0.29	NonLiqfble.
CPT-3	24.1	11	13.2	1.13	125	3150	2332	12.0	10.0	9.72	3.3	82.2	0.80	47.8	59.8	0.454	0.100	0.120	0.26	NonLiqfble.
CPT-3	24.19	11	16.2	1.14	135	3162	2338	14.7	12.5	7.80	3.2	71.2	0.80	58.6	73.3	0.455	0.117	0.140	0.31	NonLiqfble.
CPT-3	24.27	11	26.2	1.3	135	3172	2344	23.7	21.0	5.28	2.9	51.8	0.80	94.7	118.4	0.455	0.234	0.281	0.62	NonLiqfble.
CPT-3	24.36	11	40	1.57	135	3185	2350	36.1	32.7	4.09	2.7	39.4	0.80	144.4	180.5	0.456	0.627	0.752	1.65	NonLiqfble.
CPT-3	24.45	11	43.8	1.92	135	3197	2357	39.5	35.8	4.55	2.7									

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{N15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	ΔQ_{N15}	$(Q_{N15})_{95}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	24.95	11	82.7	0.91	125	3263	2392	74.0	67.7	1.12	2.1	15.0	0.27	27.0	101.0	0.459	0.176	0.211	0.46	Liquefaction
CPT-3	25.04	11	89	0.95	125	3275	2398	79.5	72.8	1.09	2.0	14.1	0.24	25.4	104.9	0.459	0.187	0.225	0.49	Liquefaction
CPT-3	25.12	11	97	1.02	125	3285	2403	86.6	79.3	1.07	2.0	13.1	0.22	24.0	110.6	0.460	0.206	0.247	0.54	Liquefaction
CPT-3	25.21	11	113.5	1.02	125	3296	2409	101.2	92.8	0.91	1.9	10.6	0.15	17.9	119.1	0.460	0.237	0.285	0.62	Liquefaction
CPT-3	25.29	11	136.7	0.97	115	3306	2414	121.7	111.9	0.72	1.8	7.8	0.07	9.7	131.4	0.461	0.291	0.349	0.76	Liquefaction
CPT-3	25.37	11	155.6	0.87	115	3315	2418	138.5	127.3	0.57	1.7	5.7	0.02	2.5	141.0	0.461	0.341	0.409	0.89	Liquefaction
CPT-3	25.46	11	165	0.83	105	3325	2422	146.7	134.8	0.51	1.6	4.8	0.00	0.0	146.7	0.462	0.373	0.448	0.97	Liquefaction
CPT-3	25.54	11	169.6	0.87	105	3334	2426	150.7	138.4	0.52	1.6	4.8	0.00	0.0	150.7	0.462	0.398	0.478	1.03	Low F.S.
CPT-3	25.63	11	164.6	0.93	115	3343	2430	146.1	134.1	0.57	1.7	5.4	0.01	1.5	147.6	0.463	0.379	0.455	0.98	Liquefaction
CPT-3	25.68	11	160.1	0.95	115	3349	2432	142.0	130.2	0.60	1.7	5.8	0.02	3.1	145.1	0.463	0.364	0.437	0.94	Liquefaction
CPT-3	25.75	11	158.6	0.96	115	3357	2436	140.6	128.8	0.61	1.7	6.0	0.03	3.7	144.3	0.463	0.360	0.432	0.93	Liquefaction
CPT-3	25.83	11	164.9	0.96	115	3366	2440	146.1	133.7	0.59	1.7	5.5	0.01	2.2	148.2	0.464	0.383	0.459	0.99	Liquefaction
CPT-3	25.92	11	172.7	0.99	115	3377	2445	152.8	139.8	0.58	1.6	5.2	0.01	0.8	153.6	0.464	0.417	0.501	1.08	Low F.S.
CPT-3	26	11	181	1.09	115	3386	2449	160.0	146.4	0.61	1.6	5.1	0.00	0.6	160.6	0.465	0.465	0.559	1.20	
CPT-3	26.08	11	178.5	1.16	115	3395	2453	157.7	144.1	0.66	1.7	5.6	0.02	2.6	160.2	0.465	0.463	0.555	1.19	Low F.S.
CPT-3	26.17	11	171.3	1.12	115	3405	2458	151.2	137.9	0.66	1.7	5.9	0.02	3.7	154.9	0.466	0.426	0.511	1.10	Low F.S.
CPT-3	26.25	11	166.9	1.12	115	3415	2462	147.2	134.1	0.68	1.7	6.2	0.03	4.9	152.1	0.466	0.407	0.489	1.05	Low F.S.
CPT-3	26.33	11	162.8	1.09	115	3424	2467	143.4	130.6	0.68	1.7	6.4	0.04	5.5	148.9	0.467	0.387	0.464	0.99	Liquefaction
CPT-3	26.42	11	163.5	1	115	3434	2471	143.9	130.9	0.62	1.7	5.9	0.02	3.6	147.5	0.467	0.378	0.454	0.97	Liquefaction
CPT-3	26.51	11	166	0.97	115	3444	2476	146.0	132.6	0.59	1.7	5.6	0.02	2.4	148.4	0.468	0.384	0.461	0.98	Liquefaction
CPT-3	26.59	11	167.3	1	115	3454	2480	147.0	133.5	0.60	1.7	5.7	0.02	2.7	149.7	0.468	0.392	0.470	1.00	Low F.S.
CPT-3	26.67	11	167.7	1.02	115	3463	2484	147.2	133.6	0.61	1.7	5.8	0.02	3.0	150.3	0.469	0.395	0.475	1.01	Low F.S.
CPT-3	26.75	11	162.7	0.97	115	3472	2489	142.7	129.3	0.60	1.7	5.9	0.02	3.4	146.1	0.469	0.370	0.444	0.95	Liquefaction
CPT-3	26.84	11	160.2	0.92	115	3482	2493	140.4	127.1	0.58	1.7	5.8	0.02	3.1	143.5	0.470	0.355	0.426	0.91	Liquefaction
CPT-3	26.92	11	158.8	0.91	115	3492	2498	139.0	125.7	0.58	1.7	5.9	0.02	3.3	142.3	0.470	0.348	0.418	0.89	Liquefaction
CPT-3	27	11	159.3	0.95	115	3501	2502	139.4	125.9	0.60	1.7	6.0	0.03	4.0	143.4	0.471	0.354	0.425	0.90	Liquefaction
CPT-3	27.08	11	159.9	1.03	115	3510	2506	139.8	126.2	0.65	1.7	6.4	0.04	5.5	145.2	0.471	0.365	0.438	0.93	Liquefaction
CPT-3	27.17	11	156.9	1.08	115	3520	2511	137.0	123.5	0.70	1.7	6.9	0.05	7.3	144.3	0.472	0.359	0.431	0.91	Liquefaction
CPT-3	27.25	11	155.5	1.09	115	3530	2515	135.7	122.2	0.71	1.7	7.1	0.06	7.9	143.6	0.472	0.355	0.426	0.90	Liquefaction
CPT-3	27.33	11	156.4	1.06	115	3539	2519	136.3	122.7	0.69	1.7	6.9	0.05	7.1	143.5	0.472	0.355	0.426	0.90	Liquefaction
CPT-3	27.41	11	157.3	1.08	115	3548	2523	137.0	123.2	0.69	1.7	6.9	0.05	7.3	144.3	0.473	0.360	0.432	0.91	Liquefaction
CPT-3	27.49	11	156.8	1.11	115	3557	2528	136.5	122.6	0.72	1.8	7.1	0.06	8.1	144.5	0.473	0.361	0.433	0.91	Liquefaction
CPT-3	27.57	11	150.4	1.23	125	3566	2532	130.8	117.4	0.83	1.8	8.2	0.09	12.3	143.1	0.474	0.352	0.423	0.89	Liquefaction
CPT-3	27.65	11	142.1	1.37	125	3576	2537	123.4	110.6	0.98	1.9	9.7	0.13	17.7	141.1	0.474	0.341	0.410	0.86	Liquefaction
CPT-3	27.73	11	131.2	1.39	125	3586	2542	113.9	101.8	1.07	1.9	11.0	0.16	21.7	135.5	0.475	0.312	0.374	0.79	Liquefaction
CPT-3	27.81	11	130.5	1.32	125	3596	2547	113.1	101.0	1.03	1.9	10.7	0.15	20.4	133.6	0.475	0.302	0.362	0.76	Liquefaction
CPT-3	27.89	11	127.1	1.24	125	3606	2552	110.1	98.2	0.99	1.9	10.7	0.15	19.9	129.9	0.475	0.284	0.341	0.72	Liquefaction
CPT-3	27.97	11	125.8	1.25	125	3616	2557	108.9	96.9	1.01	1.9	11.0	0.16	20.6	129.4	0.476	0.282	0.338	0.71	Liquefaction
CPT-3	28.05	11	124	1.35	125	3626	2562	107.2	95.4	1.10	2.0	11.7	0.18	23.5	130.7	0.476	0.288	0.345	0.72	Liquefaction
CPT-3	28.13	11	117.5	1.53	135	3636	2567	101.5	90.1	1.32	2.0	13.6	0.23	30.2	131.7	0.476	0.293	0.351	0.74	Liquefaction
CPT-3	28.21	11	108.1	1.71	135	3647	2573	93.3	82.6	1.61	2.1	16.1	0.30	39.2	132.4	0.477	0.296	0.355	0.74	Liquefaction
CPT-3	28.29	11	94.7	1.97	135	3658	2578	81.6	72.0	2.12	2.2	20.2	0.40	55.5	137.1	0.477	0.320	0.384	0.80	Liquefaction
CPT-3	28.37	11	80.7	2.16	135	3669	2584	69.5	61.0	2.74	2.4	24.9	0.53	79.1	148.6	0.477	0.385	0.462	0.97	Liquefaction
CPT-3	28.46	11	70.2	2.1	135	3681	2591	60.3	52.7	3.07	2.4	28.2	0.62	98.4	158.7	0.478	0.452	0.542	1.14	Low F.S.
CPT-3	28.54	11	68.8	1.99	135	3692	2597	59.1	51.5	2.97	2.4	28.1	0.62	95.0	154.1	0.478	0.420	0.504	1.05	Low F.S.
CPT-3	28.62	11	64.5	2.18	135	3703	2602	55.3	48.1	3.48	2.5	31.1	0.70	127.5	182.8	0.479	0.648	0.778	1.63	
CPT-3	28.7	11	59.4	2.05	135	3713	2608	50.9	44.1	3.56	2.5	32.7	0.74	144.3	195.1	0.479	0.771	0.925	1.93	
CPT-3	28.78	11	56.2	2.12	135	3724	2614	48.1	41.6	3.90	2.6	34.9	0.80	189.5	237.6	0.479	1.327	1.593	3.32	
CPT-3	28.86	11	53.2	2.11	135	3735	2620	45.5	39.2	4.11	2.6	36.6	0.80	181.9	227.4	0.479	1.173	1.408	2.94	NonLiqfble.
CPT-3	28.91	11	46.4	2.12	135	3742	2623	39.6	33.9	4.76	2.7	41.2	0.80	158.5	198.2	0.480	0.804	0.965	2.01	NonLiqfble.
CPT-3	28.95	11	52.3	2.09	135	3747	2626	44.7	38.4	4.14	2.6	37.0	0.80	178.6	223.3	0.480	1.115	1.338	2.79	NonLiqfble.
CPT-3	29.03	11	54.4	2.02	135	3758	2632	46.4	39.9	3.85	2.6	35.3	0.80	185.6	232.0	0.480	1.241	1.489	3.10	
CPT-3	29.11	11	54.7	1.99	135	3769	2638	46.6	40.0	3.77	2.6	34.9	0.80	185.3	231.9	0.480	1.240	1.488	3.10	
CPT-3	29.2	11	54.7	2.01	135	3781	2644	46.5	39.9	3.81	2.6	35.1	0.80	186.2	232.7	0.481	1.252	1.502	3.12	
CPT-3	29.28	11	54.9	1.94	135	3792	2650	46.7	40.0	3.66	2.6	34.5	0.79	173.7	220.4	0.481	1.075	1.290	2.68	
CPT-3	29.36	11	58	1.77	135	3802	2656	49.2	42.2	3.16	2.5	31.6	0.71	121.4	170.6	0.481	0.542	0.650	1.35	
CPT-3	29.45	11	63.8	1.54	135	3815	2663	54.1	46.5	2.49	2.4	27.3	0.59	79.4	133.5	0.482	0.301	0.362	0.75	Liquefaction
CPT-3	29.53	11	79.5	1.35	135	3825	2668	67.3	58.1	1.74	2.2	20.6	0.42	47.8	115.2	0.482	0.222	0.266	0.55	Liquefaction
CPT-3	29.61	11	102.7	1.23	125	3836	2674	86.9	75.3	1.22	2.1	14.6	0.26	30.1	117.0	0.482	0.229	0.275	0.57	Liquefaction
CPT-3	29.69	11	133.9	1.24	125	3846	2679	113.2	98.5	0.94	1.9	10.4	0.14	18.9	132.1	0.483	0.294	0.353	0.73	Liquefaction
CPT-3	29.77	11	157.2	1.45	125	3856	2684	132.8	115.6	0.93	1.8	9.1	0.11	16.1	148.9	0.483	0.387	0.464	0.96	Liquefaction
CPT-3	29.85	11	176.5	1.73	125	3866	2689	148.9	129.8	0.99	1.8	8.6	0.10	15.8	164.7	0.484				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	ΔQ_{tip}	$(Q_{tip})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	30.34	11	232.3	2.61	125	3928	2721	194.9	169.2	1.13	1.8	7.7	0.07	15.0	209.9	0.465	0.940	1.128	2.42	
CPT-3	30.42	11	236.4	2.36	125	3938	2726	198.1	171.9	1.01	1.7	6.8	0.05	10.3	208.4	0.466	0.921	1.106	2.37	
CPT-3	30.51	11	239.2	2.19	125	3949	2731	200.3	173.6	0.92	1.7	6.3	0.03	7.1	207.3	0.466	0.909	1.090	2.34	
CPT-3	30.59	11	242.1	2.18	125	3959	2736	202.5	175.4	0.91	1.7	6.1	0.03	6.2	208.7	0.466	0.926	1.111	2.38	
CPT-3	30.67	11	247	2.29	125	3969	2741	206.4	178.7	0.93	1.7	6.2	0.03	6.7	213.1	0.467	0.980	1.176	2.52	
CPT-3	30.75	11	254.4	2.33	125	3979	2746	212.4	183.7	0.92	1.7	5.9	0.03	5.5	217.9	0.467	1.042	1.251	2.68	
CPT-3	30.84	11	254.2	2.31	125	3991	2752	212.0	183.2	0.92	1.7	5.9	0.02	5.3	217.3	0.467	1.035	1.242	2.66	
CPT-3	30.91	11	260.1	2.26	125	3999	2756	216.8	187.2	0.88	1.7	5.5	0.01	3.2	220.0	0.468	1.070	1.284	2.75	
CPT-3	30.99	11	270.1	2.57	125	4009	2761	224.9	194.1	0.96	1.7	5.8	0.02	5.2	230.1	0.468	1.213	1.456	3.11	
CPT-3	31.07	11	282.7	2.61	125	4019	2766	235.2	202.8	0.93	1.7	5.4	0.01	2.8	237.9	0.468	1.333	1.599	3.41	
CPT-3	31.15	11	295.7	2.73	125	4029	2771	245.8	211.8	0.93	1.6	5.2	0.01	1.3	247.1	0.469	1.483	1.779	3.80	
CPT-3	31.23	11	309.2	2.83	125	4039	2776	256.7	221.2	0.92	1.6	4.9	0.00	0.0	256.7	0.469	1.654	1.985	4.23	
CPT-3	31.3	11	311.1	2.81	125	4048	2781	258.1	222.2	0.91	1.6	4.8	0.00	0.0	258.1	0.469	1.679	2.015	4.30	
CPT-3	31.38	11	315.9	2.83	125	4058	2786	261.9	225.2	0.90	1.6	4.7	0.00	0.0	261.9	0.470	1.750	2.100	4.47	
CPT-3	31.46	11	318.1	2.7	125	4068	2791	263.5	226.4	0.85	1.6	4.4	0.00	0.0	263.5	0.470	1.781	2.137	4.55	
CPT-3	31.53	11	329.5	2.67	125	4077	2795	272.7	234.2	0.82	1.6	4.0	0.00	0.0	272.7	0.470	1.966	2.359	5.02	
CPT-3	31.61	11	335.1	2.6	125	4087	2800	277.1	237.8	0.78	1.6	3.7	0.00	0.0	277.1	0.470	2.058	2.470	5.25	
CPT-3	31.68	11	330.4	2.46	115	4096	2805	273.0	234.1	0.75	1.6	3.6	0.00	0.0	273.0	0.471	1.972	2.366	5.03	
CPT-3	31.76	11	319.4	2.38	115	4105	2809	263.7	225.9	0.75	1.6	3.8	0.00	0.0	263.7	0.471	1.785	2.142	4.55	
CPT-3	31.84	11	318	2.25	115	4114	2813	262.3	224.5	0.71	1.5	3.6	0.00	0.0	262.3	0.471	1.759	2.111	4.48	
CPT-3	31.91	11	326.7	2.23	115	4122	2817	269.3	230.4	0.69	1.5	3.3	0.00	0.0	269.3	0.472	1.897	2.276	4.83	
CPT-3	31.98	11	334	2.08	115	4130	2820	275.2	235.3	0.63	1.5	2.8	0.00	0.0	275.2	0.472	2.018	2.421	5.13	
CPT-3	32.06	11	336.2	1.92	115	4139	2825	276.8	236.5	0.57	1.5	2.4	0.00	0.0	276.8	0.472	2.052	2.462	5.21	
CPT-3	32.13	11	326.1	1.97	115	4147	2828	268.3	229.0	0.61	1.5	2.8	0.00	0.0	268.3	0.473	1.876	2.251	4.76	
CPT-3	32.2	11	318.7	2.12	115	4156	2832	262.0	223.5	0.67	1.5	3.3	0.00	0.0	262.0	0.473	1.753	2.104	4.45	
CPT-3	32.36	11	308.3	1.95	115	4174	2840	253.1	215.5	0.64	1.5	3.3	0.00	0.0	253.1	0.474	1.588	1.906	4.02	
CPT-3	32.44	11	309.8	1.83	115	4183	2845	254.1	216.3	0.59	1.5	3.0	0.00	0.0	254.1	0.474	1.607	1.928	4.07	
CPT-3	32.52	11	301.4	1.63	115	4192	2849	247.1	210.0	0.54	1.5	2.7	0.00	0.0	247.1	0.474	1.483	1.779	3.75	
CPT-3	32.59	11	296.9	1.43	105	4200	2853	243.2	206.6	0.49	1.5	2.4	0.00	0.0	243.2	0.475	1.418	1.702	3.59	
CPT-3	32.66	11	288.5	1.43	105	4208	2855	236.2	200.5	0.50	1.5	2.6	0.00	0.0	236.2	0.475	1.306	1.567	3.30	
CPT-3	32.74	11	279.2	1.51	115	4216	2859	228.5	193.8	0.54	1.5	3.1	0.00	0.0	228.5	0.475	1.189	1.427	3.00	
CPT-3	32.81	11	272.8	1.38	105	4224	2863	223.1	189.0	0.51	1.5	3.0	0.00	0.0	223.1	0.476	1.113	1.335	2.81	
CPT-3	32.89	11	271.4	1.79	115	4233	2866	221.8	187.8	0.66	1.6	4.1	0.00	0.0	221.8	0.476	1.095	1.314	2.76	
CPT-3	32.96	11	261.9	1.88	115	4241	2870	213.9	181.0	0.72	1.6	4.8	0.00	0.0	213.9	0.476	0.990	1.188	2.49	
CPT-3	33.04	11	248.3	2.01	125	4250	2874	202.7	171.2	0.82	1.7	5.7	0.02	3.7	206.4	0.477	0.898	1.077	2.26	
CPT-3	33.11	11	238.5	1.75	115	4259	2878	194.5	164.2	0.74	1.7	5.4	0.01	2.2	196.7	0.477	0.788	0.945	1.98	
CPT-3	33.19	11	224.9	1.74	115	4268	2882	183.3	154.5	0.78	1.7	6.1	0.03	5.3	188.6	0.477	0.704	0.845	1.77	
CPT-3	33.27	11	219.4	1.5	115	4277	2887	178.7	150.5	0.69	1.7	5.6	0.02	2.8	181.5	0.478	0.636	0.763	1.60	
CPT-3	33.34	11	205.7	1.07	115	4285	2890	167.4	140.8	0.53	1.6	4.7	0.00	0.0	167.4	0.478	0.516	0.620	1.30	
CPT-3	33.41	11	195.1	0.81	105	4293	2894	158.7	133.3	0.42	1.6	4.2	0.00	0.0	158.7	0.478	0.452	0.542	1.13	Low F.S.
CPT-3	33.49	11	183.9	0.83	105	4301	2897	149.5	125.4	0.46	1.6	4.9	0.00	0.0	149.5	0.479	0.391	0.469	0.98	Liquefaction
CPT-3	33.57	11	165.3	0.96	115	4310	2901	134.3	112.4	0.59	1.7	6.7	0.05	6.4	140.6	0.479	0.339	0.406	0.85	Liquefaction
CPT-3	33.64	11	149.8	1.2	115	4318	2905	121.6	101.6	0.81	1.8	9.2	0.11	15.3	136.9	0.479	0.319	0.383	0.80	Liquefaction
CPT-3	33.72	11	121.2	1.67	135	4327	2909	98.3	81.8	1.40	2.1	15.0	0.27	35.7	134.0	0.479	0.304	0.365	0.76	Liquefaction
CPT-3	33.8	11	87.3	2.19	135	4338	2915	70.8	58.4	2.57	2.4	24.7	0.53	78.8	149.6	0.480	0.391	0.469	0.98	Liquefaction
CPT-3	33.88	11	53.2	2.26	135	4349	2920	43.1	34.9	4.43	2.7	39.5	0.80	172.3	215.4	0.480	1.009	1.211	2.52	NonLiqfble.
CPT-3	33.96	11	38.4	1.98	135	4360	2926	31.1	24.7	5.47	2.9	49.2	0.80	124.2	155.3	0.480	0.428	0.514	1.07	NonLiqfble.
CPT-3	34.04	11	28.5	1.67	135	4370	2932	23.0	17.9	6.35	3.0	58.5	0.80	92.1	115.1	0.480	0.222	0.266	0.55	NonLiqfble.
CPT-3	34.12	11	20.6	1.41	135	4381	2938	16.6	12.5	7.66	3.2	70.8	0.80	66.5	83.1	0.481	0.133	0.160	0.33	NonLiqfble.
CPT-3	34.2	11	20.2	1.14	135	4392	2944	16.3	12.2	6.33	3.1	67.3	0.80	65.2	81.5	0.481	0.130	0.156	0.33	NonLiqfble.
CPT-3	34.28	11	21.6	0.92	135	4403	2949	17.4	13.1	4.74	3.0	59.9	0.80	69.6	87.0	0.481	0.141	0.170	0.35	NonLiqfble.
CPT-3	34.37	11	20.2	0.84	125	4415	2956	16.3	12.2	4.67	3.0	61.4	0.80	65.0	81.3	0.481	0.130	0.156	0.32	NonLiqfble.
CPT-3	34.44	11	16.4	0.82	125	4424	2960	13.2	9.6	5.78	3.2	71.6	0.80	52.8	65.9	0.482	0.107	0.128	0.27	NonLiqfble.
CPT-3	34.53	11	13.7	0.8	125	4435	2966	11.0	7.7	6.97	3.3	81.4	0.80	44.0	55.0	0.482	0.096	0.115	0.24	NonLiqfble.
CPT-3	34.61	11	13.0	0.72	125	4445	2971	11.0	7.7	6.27	3.3	79.2	0.80	44.0	55.0	0.482	0.095	0.115	0.24	NonLiqfble.
CPT-3	34.7	11	13.4	0.66	125	4456	2977	10.7	7.5	5.91	3.3	78.7	0.80	43.0	53.7	0.483	0.094	0.113	0.23	NonLiqfble.
CPT-3	34.78	11	13.2	0.63	125	4466	2982	10.6	7.4	5.75	3.3	78.6	0.80	42.3	52.9	0.483	0.094	0.113	0.23	NonLiqfble.
CPT-3	34.87	11	12.9	0.6	125	4477	2987	10.3	7.1	5.63	3.3	79.0	0.80	41.3	51.6	0.483	0.093	0.111	0.23	NonLiqfble.
CPT-3	34.95	11	12.3	0.6	125	4487	2992	9.8	6.7	5.97	3.3	82.0	0.80	39.4	49.2	0.483	0.091	0.109	0.23	NonLiqfble.
CPT-3	35.04	11	12.3	0.6	125	4499	2998	9.8	6.7	5.97	3.3	82.1	0.80	39.3	49.1	0.484	0.091	0.109	0.23	NonLiqfble.
CPT-3	35.12	11	12	0.59	125	4509	3003	9.6	6.5	6.05	3.3	83.4	0.80	38.3	47.9	0.484	0.090	0.108	0.22	NonLiqfble.
CPT-3	35.21	11	13.2	0.62	125	4520	3009	10.5	7.3	5.67	3.3	78.7	0.80	42.1	52.6	0.484	0.094	0.112	0.23	NonLiqfble.
CPT-3	35.3	11	13.2	0.66	125	4531	3014													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{IN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{CPT}	ΔQ_{IN}	$(Q_{IN})_{90}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	35.63	11	13.8	0.59	125	4572	3035	11.0	7.6	5.12	3.2	75.3	0.80	43.8	54.8	0.486	0.095	0.114	0.24	NonLiqfble.
CPT-3	35.72	11	13.5	0.58	125	4584	3040	10.7	7.4	5.18	3.2	76.4	0.80	42.8	53.6	0.486	0.094	0.113	0.23	NonLiqfble.
CPT-3	35.81	11	14.2	0.55	125	4595	3046	11.3	7.8	4.62	3.2	72.4	0.80	45.0	56.3	0.486	0.097	0.116	0.24	NonLiqfble.
CPT-3	35.9	11	14.6	0.56	125	4606	3052	11.6	8.1	4.55	3.2	71.3	0.80	46.3	57.8	0.486	0.098	0.118	0.24	NonLiqfble.
CPT-3	35.99	11	14.9	0.6	125	4617	3057	11.8	8.2	4.77	3.2	71.6	0.80	47.2	59.0	0.487	0.099	0.119	0.24	NonLiqfble.
CPT-3	36.08	11	15.2	0.62	125	4629	3063	12.0	8.4	4.81	3.2	71.3	0.80	48.1	60.1	0.487	0.100	0.120	0.25	NonLiqfble.
CPT-3	36.17	11	15.1	0.65	125	4640	3069	11.9	8.3	5.09	3.2	72.6	0.80	47.7	59.6	0.487	0.100	0.120	0.25	NonLiqfble.
CPT-3	36.26	11	15.6	0.66	125	4651	3074	12.3	8.6	4.97	3.2	71.2	0.80	49.2	61.6	0.488	0.102	0.122	0.25	NonLiqfble.
CPT-3	36.35	11	15.6	0.65	125	4662	3080	12.3	8.6	4.90	3.2	71.0	0.80	49.2	61.5	0.488	0.102	0.122	0.25	NonLiqfble.
CPT-3	36.44	11	14.9	0.63	125	4674	3086	11.7	8.1	5.02	3.2	73.0	0.80	46.9	58.7	0.488	0.099	0.119	0.24	NonLiqfble.
CPT-3	36.53	11	14.5	0.62	125	4685	3091	11.4	7.9	5.10	3.2	74.3	0.80	45.6	57.1	0.489	0.097	0.117	0.24	NonLiqfble.
CPT-3	36.62	11	13.7	0.59	125	4696	3097	10.8	7.3	5.20	3.2	76.6	0.80	43.1	53.9	0.489	0.095	0.113	0.23	NonLiqfble.
CPT-3	36.71	11	13.6	0.58	125	4707	3102	10.7	7.2	5.16	3.2	76.8	0.80	42.7	53.4	0.489	0.094	0.113	0.23	NonLiqfble.
CPT-3	36.8	11	14.1	0.58	125	4719	3108	11.1	7.6	4.94	3.2	74.7	0.80	44.3	55.3	0.489	0.096	0.115	0.23	NonLiqfble.
CPT-3	36.89	11	13.8	0.59	125	4730	3114	10.8	7.3	5.16	3.2	76.4	0.80	43.3	54.1	0.490	0.095	0.114	0.23	NonLiqfble.
CPT-3	36.98	11	14.1	0.6	125	4741	3119	11.0	7.5	5.12	3.2	75.6	0.80	44.2	55.2	0.490	0.096	0.115	0.23	NonLiqfble.
CPT-3	37.07	11	14.9	0.59	125	4752	3125	11.7	8.0	4.71	3.2	72.1	0.80	46.6	58.3	0.490	0.098	0.118	0.24	NonLiqfble.
CPT-3	37.16	11	14.7	0.6	125	4764	3131	11.5	7.9	4.87	3.2	73.3	0.80	46.0	57.5	0.490	0.098	0.117	0.24	NonLiqfble.
CPT-3	37.25	11	14.9	0.58	125	4775	3136	11.6	8.0	4.64	3.2	71.9	0.80	46.6	58.2	0.491	0.098	0.118	0.24	NonLiqfble.
CPT-3	37.34	11	14.8	0.58	125	4786	3142	11.6	7.9	4.68	3.2	72.4	0.80	46.2	57.8	0.491	0.098	0.118	0.24	NonLiqfble.
CPT-3	37.43	11	15.3	0.61	125	4797	3147	11.9	8.2	4.73	3.2	71.6	0.80	47.7	59.7	0.491	0.100	0.120	0.24	NonLiqfble.
CPT-3	37.52	11	15.1	0.64	125	4809	3153	11.8	8.0	5.04	3.2	73.4	0.80	47.1	58.8	0.492	0.099	0.119	0.24	NonLiqfble.
CPT-3	37.61	11	15.4	0.67	125	4820	3159	12.0	8.2	5.16	3.2	73.3	0.80	48.0	59.9	0.492	0.100	0.120	0.24	NonLiqfble.
CPT-3	37.7	11	15.8	0.69	125	4831	3164	12.3	8.5	5.16	3.2	72.5	0.80	49.2	61.4	0.492	0.102	0.122	0.25	NonLiqfble.
CPT-3	37.79	11	15.2	0.68	125	4842	3170	11.8	8.1	5.32	3.2	74.5	0.80	47.2	59.1	0.492	0.099	0.119	0.24	NonLiqfble.
CPT-3	37.88	11	14.5	0.63	125	4854	3176	11.3	7.6	5.22	3.2	75.7	0.80	45.0	56.3	0.493	0.097	0.116	0.24	NonLiqfble.
CPT-3	37.97	11	13.8	0.58	125	4865	3181	10.7	7.1	5.10	3.2	76.9	0.80	42.8	53.5	0.493	0.094	0.113	0.23	NonLiqfble.
CPT-3	38.06	11	13	0.54	125	4876	3187	10.1	6.6	5.11	3.3	79.1	0.80	40.3	50.4	0.493	0.092	0.110	0.22	NonLiqfble.
CPT-3	38.15	11	12.2	0.5	125	4887	3193	9.4	6.1	5.13	3.3	81.5	0.80	37.8	47.2	0.493	0.090	0.108	0.22	NonLiqfble.
CPT-3	38.24	11	11.7	0.48	125	4899	3198	9.1	5.8	5.19	3.3	83.4	0.80	36.2	45.3	0.494	0.089	0.106	0.22	NonLiqfble.
CPT-3	38.33	11	11.1	0.47	125	4910	3204	8.6	5.4	5.44	3.4	86.6	0.80	34.3	42.9	0.494	0.087	0.105	0.21	NonLiqfble.
CPT-3	38.42	11	10.6	0.46	115	4921	3209	8.2	5.1	5.65	3.4	89.4	0.80	32.7	40.9	0.494	0.086	0.104	0.21	NonLiqfble.
CPT-3	38.51	11	10.7	0.46	115	4931	3214	8.3	5.1	5.59	3.4	88.8	0.80	33.0	41.3	0.495	0.087	0.104	0.21	NonLiqfble.
CPT-3	38.6	11	10.5	0.46	115	4942	3219	8.1	5.0	5.73	3.4	90.2	0.80	32.4	40.5	0.495	0.086	0.103	0.21	NonLiqfble.
CPT-3	38.69	11	11.3	0.47	125	4952	3224	8.7	5.5	5.33	3.4	85.7	0.80	34.8	43.5	0.495	0.088	0.105	0.21	NonLiqfble.
CPT-3	38.77	11	11.5	0.47	125	4962	3229	8.9	5.6	5.21	3.3	84.6	0.80	35.4	44.3	0.495	0.088	0.106	0.21	NonLiqfble.
CPT-3	38.88	11	13	0.52	125	4976	3236	10.0	6.5	4.95	3.3	79.0	0.80	40.0	50.0	0.496	0.092	0.110	0.22	NonLiqfble.
CPT-3	38.97	11	14.4	0.58	125	4987	3241	11.1	7.3	4.87	3.2	75.2	0.80	44.3	55.3	0.496	0.096	0.115	0.23	NonLiqfble.
CPT-3	39.06	11	15.6	0.62	125	4998	3247	12.0	8.1	4.73	3.2	72.1	0.80	47.9	59.9	0.496	0.100	0.120	0.24	NonLiqfble.
CPT-3	39.15	11	14.9	0.67	125	5010	3252	11.4	7.6	5.41	3.2	76.3	0.80	45.7	57.2	0.496	0.097	0.117	0.24	NonLiqfble.
CPT-3	39.24	11	15.4	0.7	125	5021	3258	11.8	7.9	5.43	3.2	75.4	0.80	47.2	59.0	0.497	0.099	0.119	0.24	NonLiqfble.
CPT-3	39.33	11	15	0.67	125	5032	3264	11.5	7.6	5.37	3.2	76.1	0.80	46.0	57.4	0.497	0.098	0.117	0.24	NonLiqfble.
CPT-3	39.42	11	15.6	0.66	125	5043	3269	11.9	8.0	5.05	3.2	73.6	0.80	47.7	59.7	0.497	0.100	0.120	0.24	NonLiqfble.
CPT-3	39.5	11	16	0.67	125	5053	3274	12.2	8.2	4.97	3.2	72.5	0.80	48.9	61.2	0.497	0.101	0.122	0.24	NonLiqfble.
CPT-3	39.6	11	17	0.7	125	5066	3281	13.0	8.8	4.84	3.2	70.1	0.80	51.9	64.9	0.498	0.105	0.127	0.25	NonLiqfble.
CPT-3	39.68	11	17.8	0.73	125	5076	3286	13.6	9.3	4.78	3.1	68.5	0.80	54.3	67.9	0.498	0.109	0.131	0.26	NonLiqfble.
CPT-3	39.78	11	18.2	0.74	125	5088	3292	13.9	9.5	4.73	3.1	67.7	0.80	55.5	69.4	0.498	0.111	0.133	0.27	NonLiqfble.
CPT-3	39.87	11	18.9	0.75	125	5100	3298	14.4	9.9	4.59	3.1	66.1	0.80	57.6	72.0	0.498	0.115	0.138	0.28	NonLiqfble.
CPT-3	39.95	11	18.8	0.74	125	5110	3303	14.3	9.8	4.56	3.1	66.1	0.80	57.3	71.6	0.499	0.114	0.137	0.27	NonLiqfble.
CPT-3	40.04	11	19.2	0.74	125	5121	3308	14.6	10.1	4.45	3.1	65.1	0.80	58.4	73.0	0.461	0.116	0.139	0.30	NonLiqfble.
CPT-3	40.14	11	20.1	0.71	125	5133	3314	15.3	10.6	4.05	3.1	62.1	0.80	61.1	76.4	0.461	0.121	0.146	0.32	NonLiqfble.
CPT-3	40.22	11	19.8	0.7	125	5143	3319	15.0	10.4	4.06	3.1	62.7	0.80	60.1	75.2	0.461	0.120	0.143	0.31	NonLiqfble.
CPT-3	40.32	11	19	0.71	125	5156	3326	14.4	9.9	4.32	3.1	65.0	0.80	57.7	72.1	0.462	0.115	0.138	0.30	NonLiqfble.
CPT-3	40.4	11	17.7	0.71	125	5166	3331	13.4	9.1	4.70	3.1	68.8	0.80	53.7	67.1	0.462	0.108	0.130	0.28	NonLiqfble.
CPT-3	40.49	11	17.4	0.71	125	5177	3336	13.2	8.9	4.79	3.2	69.8	0.80	52.7	65.9	0.462	0.107	0.128	0.28	NonLiqfble.
CPT-3	40.58	11	18.2	0.76	125	5188	3342	13.8	9.3	4.87	3.1	68.8	0.80	55.1	68.9	0.462	0.110	0.132	0.29	NonLiqfble.
CPT-3	40.68	11	19.5	0.83	125	5201	3348	14.7	10.1	4.91	3.1	66.9	0.80	59.0	73.7	0.463	0.117	0.141	0.30	NonLiqfble.
CPT-3	40.76	11	22.2	0.98	135	5211	3353	16.8	11.7	5.00	3.1	63.7	0.80	67.1	83.9	0.463	0.135	0.162	0.35	NonLiqfble.
CPT-3	40.85	11	27	1.26	135	5223	3360	20.4	14.5	5.17	3.0	59.2	0.80	81.5	101.9	0.463	0.178	0.214	0.46	NonLiqfble.
CPT-3	40.94	11	34.3	1.58	135	5235	3366	25.9	18.8	4.99	2.9	53.0	0.80	103.5	129.3	0.463	0.281	0.337	0.73	NonLiqfble.
CPT-3	41.03	11	38.8	2.1	135	5247	3373	29.2	21.4	5.81	2.9	53.1	0.80	116.9	146.2	0.463	0.370	0.444	0.96	NonLiqfble.
CPT-3	41.12	11	45.2	2.9	135	5260	3379	34.0	25.2	6.81	2.9	52.9	0.80	136.1	170.1	0.463	0.538			

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{cs}	$(q_{cs})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	41.62	11	204.2	7.75	140	5329	3417	152.8	117.9	3.85	2.3	21.9	0.45	125.8	278.6	0.464	2.092	2.510	5.41	
CPT-3	41.71	11	226.8	7.61	140	5341	3424	169.6	130.8	3.40	2.2	19.4	0.39	106.3	275.8	0.465	2.032	2.438	5.25	
CPT-3	41.79	11	237.7	7.39	140	5352	3431	177.6	137.0	3.14	2.2	18.1	0.35	96.0	273.6	0.465	1.985	2.382	5.13	
CPT-3	41.87	11	238.5	5.74	135	5364	3437	178.0	137.2	2.43	2.1	15.4	0.28	68.7	246.7	0.465	1.476	1.771	3.81	
CPT-3	41.95	11	239.4	6.38	135	5374	3443	178.5	137.5	2.70	2.1	16.4	0.31	78.6	257.1	0.465	1.661	1.993	4.29	
CPT-3	42.03	11	245.4	6.81	135	5385	3448	182.8	140.7	2.81	2.1	16.7	0.31	82.8	265.7	0.465	1.823	2.188	4.71	
CPT-3	42.09	11	245.5	6.81	135	5393	3453	182.8	140.6	2.80	2.1	16.7	0.31	82.8	265.6	0.465	1.823	2.188	4.70	
CPT-3	42.16	11	276	6.89	135	5403	3458	205.4	158.0	2.52	2.1	14.6	0.26	71.2	276.6	0.465	2.047	2.457	5.28	
CPT-3	42.23	11	315	6.73	135	5412	3463	234.2	180.3	2.16	2.0	12.2	0.19	55.7	289.9	0.465	2.345	2.814	6.05	
CPT-3	42.31	11	343.1	6.44	135	5423	3469	254.9	196.2	1.89	1.9	10.5	0.15	43.9	298.8	0.466	2.560	3.072	6.60	
CPT-3	42.39	11	359.3	6.17	135	5434	3474	266.7	205.2	1.73	1.9	9.5	0.12	36.4	303.1	0.466	2.669	3.203	6.88	
CPT-3	42.47	11	369.8	6.19	135	5445	3480	274.3	210.9	1.69	1.8	9.1	0.11	34.0	308.2	0.466	2.804	3.364	7.22	
CPT-3	42.54	11	368.3	6.35	135	5454	3485	273.0	209.7	1.74	1.9	9.4	0.12	36.3	309.2	0.466	2.829	3.395	7.29	
CPT-3	42.62	11	348.4	6.8	135	5465	3491	258.0	197.9	1.97	1.9	10.8	0.15	47.0	305.0	0.466	2.717	3.261	7.00	
CPT-3	42.7	11	324.5	7.36	135	5476	3497	240.1	183.9	2.29	2.0	12.6	0.20	61.0	301.1	0.466	2.620	3.144	6.74	
CPT-3	42.77	11	315.1	7.99	135	5485	3502	233.0	178.3	2.56	2.0	13.9	0.24	72.4	305.3	0.466	2.727	3.273	7.02	
CPT-3	42.85	11	310.6	8.33	135	5496	3508	229.5	175.4	2.71	2.1	14.6	0.26	78.6	308.0	0.467	2.798	3.357	7.20	
CPT-3	42.92	11	296.8	8.42	140	5505	3513	219.1	167.3	2.86	2.1	15.5	0.28	85.3	304.4	0.467	2.702	3.242	6.95	
CPT-3	42.99	11	292	8.25	140	5515	3518	215.4	164.3	2.85	2.1	15.6	0.28	84.9	300.3	0.467	2.599	3.118	6.68	
CPT-3	43.07	11	283.6	7.61	135	5526	3525	209.0	159.3	2.71	2.1	15.3	0.28	79.3	288.4	0.467	2.310	2.772	5.94	
CPT-3	43.14	11	283.6	6.95	135	5536	3530	208.9	159.1	2.47	2.1	14.4	0.25	70.1	278.9	0.467	2.098	2.518	5.39	
CPT-3	43.2	11	294.5	5.7	135	5544	3534	216.8	165.0	1.95	2.0	12.0	0.19	49.4	266.2	0.467	1.834	2.201	4.71	
CPT-3	43.27	11	284.8	4.31	135	5553	3539	209.5	159.3	1.53	1.9	10.2	0.14	33.7	243.2	0.467	1.418	1.701	3.64	
CPT-3	43.33	11	275.1	3.46	135	5562	3543	202.2	153.6	1.27	1.8	9.1	0.11	24.8	227.0	0.467	1.167	1.401	3.00	
CPT-3	43.4	11	241.8	2.92	135	5571	3549	177.6	134.7	1.22	1.9	9.7	0.13	25.7	203.3	0.468	0.862	1.034	2.21	
CPT-3	43.45	11	212.6	3	135	5578	3552	156.1	118.1	1.43	2.0	11.9	0.18	35.3	191.4	0.468	0.732	0.879	1.88	
CPT-3	43.49	11	187.6	3.56	135	5583	3555	137.7	103.9	1.93	2.1	15.6	0.28	54.1	191.8	0.468	0.736	0.883	1.89	
CPT-3	43.54	11	169.4	3.63	135	5590	3559	124.2	93.6	2.18	2.2	17.7	0.34	64.1	188.3	0.468	0.701	0.842	1.80	
CPT-3	43.58	11	157.2	3.72	135	5595	3562	115.3	86.7	2.41	2.2	19.6	0.39	73.3	188.5	0.468	0.703	0.844	1.80	
CPT-3	43.66	11	151.4	3.84	135	5606	3567	110.9	83.3	2.58	2.3	20.7	0.42	80.4	191.3	0.468	0.731	0.877	1.87	
CPT-3	43.73	11	148	4.16	135	5616	3573	108.3	81.2	2.87	2.3	22.2	0.46	91.8	200.1	0.468	0.825	0.990	2.12	
CPT-3	43.78	11	146.8	4.24	135	5622	3576	107.4	80.5	2.94	2.3	22.6	0.47	95.2	202.6	0.468	0.854	1.024	2.19	
CPT-3	43.81	11	153.5	3.51	135	5626	3578	112.3	84.2	2.33	2.2	19.5	0.39	70.9	183.2	0.468	0.652	0.782	1.67	
CPT-3	43.9	11	154.6	3.46	135	5638	3585	113.0	84.6	2.28	2.2	19.2	0.38	69.1	182.1	0.468	0.641	0.770	1.64	
CPT-3	43.98	11	154.9	4.13	135	5649	3591	113.1	84.7	2.72	2.3	21.1	0.43	85.4	198.6	0.469	0.808	0.970	2.07	
CPT-3	44.01	11	143.9	4.33	135	5653	3593	105.0	78.5	3.07	2.3	23.4	0.49	101.1	206.2	0.469	0.895	1.074	2.29	
CPT-3	44.06	11	154.5	4.52	135	5660	3596	112.7	84.3	2.98	2.3	22.2	0.46	96.1	208.8	0.469	0.927	1.113	2.37	
CPT-3	44.13	11	199.8	4.5	135	5670	3602	145.7	109.3	2.28	2.1	16.8	0.31	66.7	212.4	0.469	0.971	1.165	2.48	
CPT-3	44.2	11	211.5	4.19	135	5679	3607	154.1	115.7	2.01	2.1	15.0	0.27	56.2	210.3	0.469	0.945	1.134	2.42	
CPT-3	44.27	11	251.5	3.43	135	5688	3612	183.1	137.6	1.38	1.9	10.5	0.15	31.3	214.4	0.469	0.996	1.195	2.55	
CPT-3	44.34	11	309.3	2.82	125	5698	3617	225.0	169.4	0.92	1.7	6.4	0.04	8.8	233.8	0.469	1.269	1.522	3.24	
CPT-3	44.41	11	349	2.74	125	5707	3621	253.8	191.1	0.79	1.6	4.9	0.00	0.0	253.8	0.469	1.600	1.920	4.09	
CPT-3	44.46	11	370.3	2.65	115	5713	3624	269.1	202.7	0.72	1.6	4.1	0.00	0.0	269.1	0.469	1.893	2.271	4.84	
CPT-3	44.5	11	373	2.94	125	5717	3626	271.0	204.0	0.79	1.6	4.6	0.00	0.0	271.0	0.470	1.931	2.317	4.94	
CPT-3	44.54	11	379	3.23	125	5722	3629	275.3	207.2	0.86	1.6	4.9	0.00	0.0	275.3	0.470	2.020	2.424	5.16	
CPT-3	44.59	11	390.5	2.9	125	5729	3632	283.5	213.4	0.75	1.6	4.0	0.00	0.0	283.5	0.470	2.199	2.639	5.62	
CPT-3	44.65	11	398.2	2.83	115	5736	3636	288.9	217.4	0.72	1.6	3.7	0.00	0.0	288.9	0.470	2.324	2.788	5.93	
CPT-3	44.7	11	411.8	3.29	125	5742	3638	298.7	224.7	0.80	1.6	4.1	0.00	0.0	298.7	0.470	2.559	3.070	6.53	
CPT-3	44.73	11	418.8	1.56	105	5746	3640	303.7	228.4	0.38	1.4	1.1	0.00	0.0	303.7	0.470	2.685	3.222	6.86	
CPT-3	44.77	11	410.2	3.25	125	5750	3642	297.4	223.6	0.80	1.6	4.1	0.00	0.0	297.4	0.470	2.526	3.032	6.45	
CPT-3	44.81	11	395.8	3.77	125	5755	3645	286.9	215.5	0.96	1.7	5.3	0.01	2.2	289.1	0.470	2.326	2.791	5.94	
CPT-3	44.87	11	364	3.68	125	5762	3648	263.7	197.9	1.02	1.7	6.1	0.03	7.9	271.6	0.470	1.944	2.332	4.96	
CPT-3	44.92	11	416.6	3.49	125	5769	3651	301.7	226.5	0.84	1.6	4.3	0.00	0.0	301.7	0.470	2.633	3.159	6.72	
CPT-3	44.96	11	419.3	3.23	125	5774	3654	303.5	227.8	0.78	1.6	3.9	0.00	0.0	303.5	0.471	2.680	3.216	6.83	
CPT-3	44.99	11	408.7	3.31	125	5777	3656	295.8	221.9	0.82	1.6	4.3	0.00	0.0	295.8	0.471	2.486	2.983	6.34	
CPT-3	45.03	11	397.1	3.35	125	5782	3658	287.3	215.4	0.85	1.6	4.6	0.00	0.0	287.3	0.471	2.285	2.741	5.82	
CPT-3	45.07	11	401.8	3.36	125	5787	3661	290.6	217.8	0.84	1.6	4.5	0.00	0.0	290.6	0.471	2.361	2.834	6.02	
CPT-3	45.12	11	407.2	3.34	125	5794	3664	294.3	220.6	0.83	1.6	4.4	0.00	0.0	294.3	0.471	2.452	2.942	6.25	
CPT-3	45.17	11	413.4	3.36	125	5800	3667	298.7	223.8	0.82	1.6	4.3	0.00	0.0	298.7	0.471	2.558	3.070	6.52	
CPT-3	45.2	11	425	3.32	125	5804	3669	307.0	230.0	0.79	1.6	3.9	0.00	0.0	307.0	0.471	2.771	3.325	7.06	
CPT-3	45.25	11	429.1	3.04	115	5810	3672	309.8	232.0	0.71	1.5	3.4	0.00	0.0	309.8	0.471	2.846	3.415	7.25	
CPT-3	45.29	11	430.1	3	115	5815	3674	310.5	232.4	0.70	1.5	3.3	0.00	0.0	310.5	0.471	2.863	3.435	7.29	
CPT-3	45.35	11	425.5	2.97	115	5821	3677	307.0</												

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
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 Depth to Groundwater: 11.0 feet

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 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{N15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{N15}	$(Q_{N15})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	45.6	11	372	3.51	125	5851	3692	267.9	199.9	0.95	1.7	5.6	0.02	4.7	272.6	0.472	1.963	2.355	4.99	
CPT-3	45.63	11	367.7	3.55	125	5855	3693	264.7	197.4	0.97	1.7	5.8	0.02	6.1	270.8	0.472	1.927	2.312	4.90	
CPT-3	45.7	11	346.9	3.57	125	5864	3698	249.6	186.0	1.04	1.7	6.6	0.04	10.8	260.4	0.472	1.723	2.068	4.38	
CPT-3	45.77	11	359.5	3.54	125	5873	3702	258.5	192.5	0.99	1.7	6.1	0.03	7.8	266.3	0.472	1.836	2.204	4.67	
CPT-3	45.84	11	354.7	3.35	125	5881	3707	254.9	189.7	0.95	1.7	5.9	0.03	6.6	261.5	0.473	1.742	2.091	4.43	
CPT-3	45.91	11	352	3.12	125	5890	3711	252.8	188.0	0.89	1.7	5.6	0.02	4.4	257.2	0.473	1.662	1.994	4.22	
CPT-3	45.98	11	345.7	2.56	115	5899	3715	248.2	184.4	0.75	1.6	4.8	0.00	0.0	248.2	0.473	1.501	1.801	3.81	
CPT-3	46.04	11	347.3	2.26	115	5906	3719	249.2	185.1	0.66	1.6	4.2	0.00	0.0	249.2	0.473	1.519	1.823	3.85	
CPT-3	46.1	11	357.9	1.92	115	5913	3722	256.7	190.7	0.54	1.5	3.2	0.00	0.0	256.7	0.473	1.653	1.984	4.19	
CPT-3	46.15	11	361.4	1.52	105	5918	3724	259.1	192.4	0.42	1.5	2.3	0.00	0.0	259.1	0.473	1.698	2.037	4.31	
CPT-3	46.2	11	364.2	1.62	105	5924	3726	261.0	193.8	0.45	1.5	2.4	0.00	0.0	261.0	0.473	1.734	2.081	4.40	
CPT-3	46.29	11	381.8	2.32	115	5933	3730	273.5	203.0	0.61	1.5	3.4	0.00	0.0	273.5	0.474	1.983	2.380	5.02	
CPT-3	46.33	11	381.7	2.54	115	5938	3732	273.4	202.9	0.67	1.6	3.8	0.00	0.0	273.4	0.474	1.980	2.376	5.01	
CPT-3	46.36	11	374.9	2.84	125	5941	3734	268.4	199.1	0.76	1.6	4.5	0.00	0.0	268.4	0.474	1.879	2.255	4.76	
CPT-3	46.46	11	401.8	3.67	125	5954	3740	287.5	213.2	0.92	1.6	5.1	0.00	0.9	288.3	0.474	2.309	2.771	5.85	
CPT-3	46.54	11	398.4	3.66	125	5964	3745	284.8	211.1	0.93	1.6	5.2	0.01	1.5	286.3	0.474	2.263	2.716	5.73	
CPT-3	46.61	11	393.3	3.69	125	5972	3750	281.0	208.1	0.95	1.7	5.4	0.01	2.9	284.0	0.474	2.210	2.652	5.59	
CPT-3	46.68	11	383.2	3.04	125	5981	3754	273.6	202.5	0.80	1.6	4.6	0.00	0.0	273.6	0.474	1.986	2.383	5.02	
CPT-3	46.75	11	369.9	2.67	115	5990	3758	264.0	195.2	0.73	1.6	4.4	0.00	0.0	264.0	0.475	1.791	2.149	4.53	
CPT-3	46.82	11	371.8	2.9	125	5998	3762	265.2	196.0	0.79	1.6	4.7	0.00	0.0	265.2	0.475	1.815	2.178	4.59	
CPT-3	46.88	11	369.9	2.9	125	6005	3766	263.7	194.8	0.79	1.6	4.8	0.00	0.0	263.7	0.475	1.786	2.143	4.51	
CPT-3	46.92	11	369.3	2.88	125	6010	3768	263.2	194.3	0.79	1.6	4.8	0.00	0.0	263.2	0.475	1.776	2.131	4.49	
CPT-3	46.95	11	368.2	2.86	125	6014	3770	262.4	193.6	0.78	1.6	4.8	0.00	0.0	262.4	0.475	1.760	2.112	4.45	
CPT-3	46.98	11	368.4	2.85	125	6018	3772	262.4	193.7	0.78	1.6	4.8	0.00	0.0	262.4	0.475	1.761	2.113	4.45	
CPT-3	47.04	11	364.3	2.83	125	6025	3776	259.4	191.3	0.78	1.6	4.8	0.00	0.0	259.4	0.475	1.703	2.044	4.30	
CPT-3	47.09	11	355.4	2.73	125	6032	3779	253.0	186.4	0.77	1.6	4.9	0.00	0.0	253.0	0.475	1.585	1.902	4.00	
CPT-3	47.14	11	354.9	2.6	115	6038	3782	252.5	186.0	0.74	1.6	4.7	0.00	0.0	252.5	0.475	1.577	1.893	3.98	
CPT-3	47.34	11	353.8	2.32	115	6061	3793	251.4	184.9	0.66	1.6	4.2	0.00	0.0	251.4	0.476	1.557	1.868	3.93	
CPT-3	47.47	11	355.6	2.59	115	6076	3799	252.4	185.5	0.73	1.6	4.7	0.00	0.0	252.4	0.476	1.576	1.891	3.97	
CPT-3	47.51	11	345.3	2.5	115	6080	3802	245.0	180.0	0.73	1.6	4.8	0.00	0.0	245.0	0.476	1.448	1.738	3.65	
CPT-3	47.57	11	336.7	2.29	115	6087	3805	238.8	175.3	0.69	1.6	4.7	0.00	0.0	238.8	0.476	1.347	1.616	3.39	
CPT-3	47.61	11	333.9	2.07	115	6092	3807	236.8	173.7	0.63	1.6	4.3	0.00	0.0	236.8	0.477	1.315	1.578	3.31	
CPT-3	47.67	11	331.5	1.97	115	6099	3810	235.0	172.3	0.60	1.6	4.1	0.00	0.0	235.0	0.477	1.287	1.544	3.24	
CPT-3	47.77	11	317.2	2.02	115	6110	3815	224.7	164.6	0.64	1.6	4.7	0.00	0.0	224.7	0.477	1.135	1.362	2.86	
CPT-3	47.83	11	314.3	1.97	115	6117	3818	222.5	163.0	0.63	1.6	4.7	0.00	0.0	222.5	0.477	1.105	1.326	2.78	
CPT-3	47.89	11	313.4	1.78	115	6124	3822	221.8	162.3	0.57	1.6	4.3	0.00	0.0	221.8	0.477	1.095	1.314	2.75	
CPT-3	47.94	11	311.7	1.59	115	6130	3824	220.5	161.3	0.52	1.6	3.9	0.00	0.0	220.5	0.477	1.078	1.293	2.71	
CPT-3	47.97	11	310.8	1.68	115	6133	3826	219.9	160.8	0.55	1.6	4.1	0.00	0.0	219.9	0.477	1.068	1.282	2.69	
CPT-3	48.01	11	308.3	1.76	115	6138	3828	218.0	159.4	0.58	1.6	4.4	0.00	0.0	218.0	0.478	1.044	1.253	2.62	
CPT-3	48.04	11	301.2	1.7	115	6141	3829	213.0	155.6	0.57	1.6	4.5	0.00	0.0	213.0	0.478	0.978	1.174	2.46	
CPT-3	48.1	11	297.9	1.91	115	6148	3833	210.5	153.8	0.65	1.6	5.1	0.00	0.8	211.4	0.478	0.958	1.150	2.41	
CPT-3	48.14	11	301.1	2.06	115	6153	3835	212.7	155.4	0.69	1.7	5.4	0.01	2.3	215.0	0.478	1.005	1.206	2.52	
CPT-3	48.23	11	311	2.42	125	6163	3839	219.6	160.3	0.79	1.7	5.9	0.02	5.2	224.8	0.478	1.137	1.364	2.85	
CPT-3	48.29	11	312.3	2.38	125	6171	3843	220.4	160.8	0.77	1.7	5.7	0.02	4.4	224.8	0.478	1.137	1.365	2.85	
CPT-3	48.35	11	316.5	2.21	115	6178	3847	223.3	162.9	0.71	1.7	5.2	0.01	1.3	224.6	0.478	1.133	1.360	2.84	
CPT-3	48.41	11	323.7	2.62	125	6185	3850	228.3	166.5	0.82	1.7	5.8	0.02	5.3	233.6	0.478	1.265	1.518	3.17	
CPT-3	48.45	11	323.7	2.83	125	6190	3853	228.2	166.4	0.88	1.7	6.3	0.03	8.1	236.2	0.478	1.306	1.567	3.28	
CPT-3	48.48	11	320.7	2.89	125	6194	3854	226.0	164.7	0.91	1.7	6.5	0.04	9.5	235.5	0.479	1.295	1.554	3.25	
CPT-3	48.51	11	323.2	2.9	125	6198	3856	227.7	165.9	0.91	1.7	6.4	0.04	9.1	236.8	0.479	1.315	1.578	3.30	
CPT-3	48.58	11	322.9	2.84	125	6206	3861	227.4	165.6	0.89	1.7	6.3	0.04	8.4	235.8	0.479	1.300	1.559	3.26	
CPT-3	48.61	11	321.2	2.79	125	6210	3863	226.1	164.6	0.88	1.7	6.3	0.03	8.2	234.3	0.479	1.276	1.531	3.20	
CPT-3	48.66	11	315.6	2.75	125	6216	3866	222.1	161.6	0.88	1.7	6.4	0.04	8.9	231.0	0.479	1.226	1.471	3.07	
CPT-3	48.71	11	297.6	2.69	125	6223	3869	209.3	152.2	0.91	1.7	7.0	0.05	12.0	221.3	0.479	1.088	1.306	2.73	
CPT-3	48.76	11	292.3	2.72	125	6229	3872	205.5	149.3	0.94	1.8	7.3	0.06	13.6	219.1	0.479	1.058	1.270	2.65	
CPT-3	48.82	11	289.8	2.68	125	6236	3876	203.7	147.9	0.93	1.8	7.3	0.06	13.6	217.3	0.479	1.034	1.241	2.59	
CPT-3	48.88	11	288.5	2.51	125	6244	3880	202.7	147.1	0.88	1.7	7.0	0.05	11.6	214.3	0.479	0.995	1.194	2.49	
CPT-3	48.95	11	284.7	2.38	125	6253	3884	199.9	144.9	0.85	1.7	6.9	0.05	10.6	210.5	0.479	0.948	1.137	2.37	
CPT-3	49.01	11	281.2	2.31	125	6260	3888	197.3	143.0	0.83	1.7	6.9	0.05	10.4	207.8	0.480	0.914	1.097	2.29	
CPT-3	49.08	11	274.6	2.33	125	6269	3892	192.6	139.4	0.86	1.8	7.2	0.06	12.2	204.8	0.480	0.879	1.055	2.20	
CPT-3	49.14	11	269.7	2.5	125	6276	3896	189.1	136.8	0.94	1.8	7.9	0.08	15.8	204.9	0.480	0.880	1.056	2.20	
CPT-3	49.21	11	270.3	2.67	125	6285	3900	189.4	136.9	1.00	1.8	8.3	0.09	18.1	207.5	0.480	0.911	1.093	2.28	
CPT-3	49.28	11	273.4	2.78	125	6294	3905	191.4	138.4	1.03	1.8	8.4	0.09	19.0	210.5	0.480	0.947	1.137	2.37	
CPT-3	49.34	11	275.6	2.69	125	6301	3908	192.9	139.4	0.99	1.8	8.								

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	ΔQ _{tip}	(Q _{tip}) _{0.5}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	49.86	11	295.5	2.21	115	6366	3941	206.0	148.3	0.76	1.7	6.1	0.03	6.5	212.4	0.481	0.971	1.166	2.42	
CPT-3	49.93	11	300.3	2.3	125	6374	3945	209.2	150.6	0.77	1.7	6.2	0.03	6.7	215.9	0.481	1.017	1.220	2.53	
CPT-3	50	11	316.7	2.63	125	6383	3949	220.5	158.7	0.84	1.7	6.3	0.03	7.8	228.3	0.425	1.187	1.424	3.35	
CPT-3	50.08	11	335.1	2.4	115	6393	3954	233.2	167.8	0.72	1.6	5.2	0.00	1.1	234.2	0.425	1.275	1.530	3.60	
CPT-3	50.16	11	349.1	2.42	115	6402	3958	242.8	174.7	0.70	1.6	4.8	0.00	0.0	242.8	0.425	1.411	1.693	3.98	
CPT-3	50.23	11	350.4	2.41	115	6410	3962	243.6	175.2	0.69	1.6	4.7	0.00	0.0	243.6	0.425	1.424	1.709	4.02	
CPT-3	50.3	11	344.9	2.32	115	6418	3966	239.6	172.3	0.68	1.6	4.7	0.00	0.0	239.6	0.425	1.360	1.632	3.84	
CPT-3	50.37	11	340.4	2.62	125	6427	3969	236.4	169.8	0.78	1.7	5.5	0.01	3.0	239.4	0.425	1.356	1.627	3.82	
CPT-3	50.44	11	345.2	2.94	125	6435	3974	239.6	172.1	0.86	1.7	5.9	0.02	6.1	245.7	0.426	1.460	1.752	4.12	
CPT-3	50.51	11	352.8	3.35	125	6444	3978	244.7	175.7	0.96	1.7	6.4	0.04	9.7	254.4	0.426	1.611	1.934	4.54	
CPT-3	50.58	11	374	3.25	125	6453	3982	259.3	186.1	0.88	1.7	5.6	0.02	4.1	263.4	0.426	1.780	2.136	5.02	
CPT-3	50.65	11	389.5	3.4	125	6462	3987	269.9	193.7	0.88	1.7	5.4	0.01	2.8	272.7	0.426	1.966	2.360	5.54	
CPT-3	50.71	11	407.4	3.44	125	6469	3990	282.2	202.5	0.85	1.6	5.0	0.00	0.0	282.2	0.426	2.170	2.603	6.11	
CPT-3	50.77	11	401.3	3.75	125	6477	3994	277.8	199.2	0.94	1.7	5.6	0.02	4.6	282.4	0.426	2.174	2.609	6.12	
CPT-3	50.84	11	403.1	3.96	125	6485	3999	278.9	199.9	0.99	1.7	5.9	0.02	6.6	285.6	0.426	2.245	2.695	6.32	
CPT-3	50.9	11	411.8	3.99	125	6493	4002	284.8	204.1	0.98	1.7	5.7	0.02	5.2	290.0	0.426	2.349	2.819	6.61	
CPT-3	50.97	11	405.2	3.9	125	6502	4007	280.1	200.6	0.97	1.7	5.7	0.02	5.6	285.7	0.426	2.249	2.698	6.33	
CPT-3	51.03	11	394	3.75	125	6509	4011	272.2	194.8	0.96	1.7	5.8	0.02	6.2	278.4	0.426	2.087	2.505	5.87	
CPT-3	51.09	11	387.7	3.94	125	6517	4014	267.7	191.5	1.02	1.7	6.3	0.04	9.7	277.5	0.427	2.067	2.480	5.81	
CPT-3	51.16	11	402.4	3.88	125	6525	4019	277.7	198.6	0.97	1.7	5.8	0.02	6.1	283.8	0.427	2.206	2.647	6.20	
CPT-3	51.22	11	403.3	3.85	125	6533	4022	278.2	198.8	0.96	1.7	5.7	0.02	5.6	283.8	0.427	2.206	2.647	6.20	
CPT-3	51.27	11	395.6	3.76	125	6539	4026	272.8	194.8	0.96	1.7	5.8	0.02	6.2	279.0	0.427	2.099	2.519	5.90	
CPT-3	51.32	11	390.7	3.85	125	6545	4029	269.3	192.3	0.99	1.7	6.1	0.03	8.2	277.6	0.427	2.068	2.482	5.81	
CPT-3	51.35	11	400.7	3.56	125	6549	4031	276.2	197.1	0.90	1.7	5.4	0.01	2.9	279.0	0.427	2.100	2.520	5.90	
CPT-3	51.39	11	401.5	3.48	125	6554	4033	276.6	197.4	0.87	1.7	5.2	0.01	1.8	278.4	0.427	2.087	2.505	5.87	
CPT-3	51.43	11	437.2	3.92	125	6559	4036	301.1	215.0	0.90	1.6	5.0	0.00	0.0	301.1	0.427	2.619	3.143	7.36	
CPT-3	51.48	11	429.7	4.68	125	6565	4039	295.8	211.1	1.10	1.7	6.2	0.03	9.6	305.4	0.427	2.730	3.276	7.67	
CPT-3	51.54	11	438.3	4.32	125	6573	4042	301.6	215.1	0.99	1.7	5.5	0.01	4.0	305.6	0.427	2.734	3.281	7.68	
CPT-3	51.58	11	432.4	4.49	125	6578	4045	297.5	212.1	1.05	1.7	5.9	0.02	7.0	304.5	0.427	2.706	3.247	7.60	
CPT-3	51.61	11	430.7	4.6	125	6582	4047	296.2	211.1	1.08	1.7	6.1	0.03	8.6	304.8	0.427	2.715	3.258	7.62	
CPT-3	51.66	11	417.8	4.48	125	6588	4050	287.3	204.6	1.08	1.7	6.3	0.03	10.0	297.2	0.427	2.522	3.027	7.08	
CPT-3	51.71	11	412.7	4.31	125	6594	4053	283.6	201.9	1.05	1.7	6.2	0.03	9.2	292.8	0.427	2.415	2.898	6.78	
CPT-3	51.75	11	390.4	4.29	125	6599	4056	268.2	190.8	1.11	1.7	6.8	0.05	13.6	281.9	0.428	2.162	2.595	6.07	
CPT-3	51.8	11	383.9	4.18	125	6605	4059	263.7	187.5	1.10	1.7	6.9	0.05	13.8	277.4	0.428	2.066	2.479	5.80	
CPT-3	51.84	11	382.1	4.28	125	6610	4061	262.3	186.5	1.13	1.7	7.1	0.06	15.3	277.7	0.428	2.071	2.485	5.81	
CPT-3	51.89	11	365.4	4.49	135	6617	4064	250.8	178.1	1.24	1.8	8.0	0.08	21.5	272.3	0.428	1.957	2.348	5.49	
CPT-3	51.94	11	364.6	2.06	115	6623	4068	250.1	177.6	0.57	1.6	3.8	0.00	0.0	250.1	0.428	1.535	1.842	4.31	
CPT-3	51.98	11	360.3	2.51	115	6628	4070	247.1	175.3	0.70	1.6	4.8	0.00	0.0	247.1	0.428	1.483	1.780	4.16	
CPT-3	52.01	11	357.6	3.21	125	6631	4072	245.2	174.0	0.91	1.7	6.2	0.03	7.8	253.0	0.428	1.587	1.904	4.45	
CPT-3	52.06	11	374.8	3.33	125	6638	4075	256.9	182.3	0.90	1.7	5.8	0.02	5.8	262.7	0.428	1.766	2.119	4.95	
CPT-3	52.12	11	366	3.21	125	6645	4079	250.8	177.8	0.89	1.7	5.9	0.02	6.2	256.9	0.428	1.657	1.989	4.65	
CPT-3	52.17	11	367.9	3.4	125	6651	4082	252.0	178.6	0.93	1.7	6.2	0.03	8.1	260.1	0.428	1.716	2.059	4.81	
CPT-3	52.24	11	347.5	3.64	125	6660	4086	237.9	168.4	1.06	1.8	7.3	0.06	15.4	253.2	0.428	1.590	1.908	4.46	
CPT-3	52.29	11	359.3	3.6	125	6666	4089	245.8	174.0	1.01	1.7	6.8	0.05	12.4	258.2	0.428	1.682	2.018	4.71	
CPT-3	52.37	11	380.5	3.45	125	6676	4094	260.2	184.2	0.91	1.7	5.9	0.02	6.3	266.5	0.428	1.839	2.207	5.15	
CPT-3	52.43	11	395	3.34	125	6684	4098	270.0	191.1	0.85	1.7	5.3	0.01	2.1	272.1	0.429	1.953	2.344	5.47	
CPT-3	52.5	11	395.5	3.17	125	6693	4102	270.2	191.1	0.81	1.6	5.0	0.00	0.1	270.2	0.429	1.915	2.298	5.36	
CPT-3	52.56	11	392	2.9	125	6700	4106	267.7	189.2	0.75	1.6	4.7	0.00	0.0	267.7	0.429	1.863	2.236	5.22	
CPT-3	52.62	11	392	3.15	125	6708	4110	267.5	189.1	0.81	1.6	5.1	0.00	0.6	268.1	0.429	1.873	2.247	5.24	
CPT-3	52.65	11	393.8	3.6	125	6711	4112	268.7	189.8	0.92	1.7	5.8	0.02	5.5	274.2	0.429	1.998	2.397	5.59	
CPT-3	52.69	11	392.8	3.79	125	6716	4114	267.9	189.2	0.97	1.7	6.1	0.03	7.9	275.9	0.429	2.033	2.440	5.69	
CPT-3	52.74	11	392	3.39	125	6723	4117	267.3	188.7	0.87	1.7	5.5	0.01	3.5	270.8	0.429	1.926	2.312	5.39	
CPT-3	52.78	11	394.2	3.22	125	6728	4120	268.7	189.7	0.82	1.6	5.1	0.00	1.1	269.8	0.429	1.906	2.288	5.33	
CPT-3	52.85	11	390.1	3.28	125	6736	4124	265.8	187.5	0.85	1.7	5.4	0.01	2.6	268.4	0.429	1.878	2.254	5.25	
CPT-3	52.92	11	404.6	3.28	125	6745	4129	275.5	194.3	0.82	1.6	5.0	0.00	0.0	275.5	0.429	2.025	2.430	5.66	
CPT-3	52.96	11	390.5	3.55	125	6750	4131	265.8	187.3	0.92	1.7	5.8	0.02	5.8	271.6	0.429	1.944	2.332	5.43	
CPT-3	52.99	11	390.4	3.7	125	6754	4133	265.7	187.2	0.96	1.7	6.0	0.03	7.6	273.3	0.429	1.978	2.373	5.53	
CPT-3	53.03	11	392.9	3.54	125	6759	4136	267.3	188.3	0.91	1.7	5.7	0.02	5.2	272.6	0.429	1.963	2.355	5.48	
CPT-3	53.06	11	387.5	3.49	125	6763	4137	263.6	185.6	0.91	1.7	5.8	0.02	5.7	269.3	0.429	1.897	2.276	5.30	
CPT-3	53.13	11	401.5	3.51	125	6771	4142	273.0	192.2	0.88	1.7	5.4	0.01	3.2	276.2	0.430	2.040	2.447	5.70	
CPT-3	53.16	11	386.7	3.59	125	6775	4144	262.8	184.9	0.94	1.7	6.0	0.03	7.1	270.0	0.430	1.910	2.292	5.34	
CPT-3	53.21	11	388.8	3.42	125	6781	4147	264.2	185.8	0.89	1.7	5.7	0.02	4.8	268.9	0.430	1.889	2.266	5.27	
CPT-3	53.27	11	396.6	3.45	125	6789	4151	269.4	189.4	0.88	1.7	5.5	0.01	3.6	272.9	0.430	1			

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{ns}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CRT}	ΔQ_{ns}	$(Q_{ns})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	53.53	11	376.3	2.81	125	6820	4165	255.1	179.0	0.75	1.6	5.0	0.00	0.1	255.2	0.430	1.626	1.951	4.53		
CPT-3	53.58	11	364.9	2.95	125	6826	4168	247.3	173.4	0.82	1.7	5.6	0.02	4.1	251.4	0.430	1.557	1.868	4.34		
CPT-3	53.62	11	362.1	2.96	125	6831	4171	245.3	171.9	0.83	1.7	5.7	0.02	4.8	250.1	0.430	1.535	1.841	4.28		
CPT-3	53.67	11	365	2.76	125	6837	4174	247.2	173.2	0.76	1.7	5.3	0.01	1.7	248.9	0.430	1.515	1.818	4.22		
CPT-3	53.73	11	363.9	2.95	125	6845	4178	246.3	172.5	0.82	1.7	5.6	0.02	4.3	250.7	0.431	1.545	1.854	4.31		
CPT-3	53.8	11	370.2	3.21	125	6854	4182	250.5	175.3	0.88	1.7	5.9	0.02	6.3	256.8	0.431	1.654	1.985	4.61		
CPT-3	53.86	11	365.9	3.77	125	6861	4186	247.4	173.1	1.04	1.7	7.0	0.05	14.0	261.4	0.431	1.741	2.090	4.85		
CPT-3	53.89	11	358.9	3.93	125	6865	4188	242.7	169.7	1.11	1.8	7.5	0.07	17.4	260.1	0.431	1.716	2.059	4.78		
CPT-3	53.94	11	359.3	3.87	125	6871	4191	242.8	169.8	1.09	1.8	7.4	0.06	16.6	259.5	0.431	1.704	2.045	4.75		
CPT-3	53.97	11	355.4	3.96	125	6875	4193	240.1	167.8	1.13	1.8	7.7	0.07	18.6	258.7	0.431	1.690	2.029	4.71		
CPT-3	54.03	11	351.3	4.07	135	6882	4197	237.3	165.7	1.17	1.8	8.0	0.08	20.8	258.1	0.431	1.679	2.015	4.68		
CPT-3	54.1	11	373.7	4	125	6892	4202	252.2	176.2	1.08	1.8	7.1	0.06	15.2	267.5	0.431	1.859	2.231	5.18		
CPT-3	54.17	11	370.7	4.09	125	6901	4206	250.1	174.6	1.11	1.8	7.4	0.06	16.9	267.0	0.431	1.851	2.221	5.15		
CPT-3	54.23	11	380.4	3.82	125	6908	4210	256.5	179.0	1.01	1.7	6.6	0.04	11.8	268.3	0.431	1.876	2.251	5.22		
CPT-3	54.29	11	376	3.77	125	6916	4214	253.4	176.8	1.01	1.7	6.7	0.05	12.1	265.6	0.431	1.822	2.186	5.07		
CPT-3	54.34	11	375	3.77	125	6922	4217	252.7	176.1	1.01	1.7	6.7	0.05	12.3	265.0	0.431	1.811	2.173	5.04		
CPT-3	54.37	11	369.5	3.65	125	6926	4219	248.9	173.5	1.00	1.7	6.7	0.05	12.1	261.0	0.431	1.733	2.080	4.82		
CPT-3	54.42	11	359.4	3.61	125	6932	4222	242.0	168.5	1.01	1.7	7.0	0.05	13.7	255.8	0.431	1.636	1.963	4.55		
CPT-3	54.46	11	352.6	3.49	125	6937	4224	237.4	165.2	1.00	1.7	7.0	0.05	13.7	251.1	0.431	1.552	1.863	4.32		
CPT-3	54.55	11	355.9	3.13	125	6948	4230	239.4	166.6	0.89	1.7	6.3	0.03	8.6	248.1	0.432	1.500	1.800	4.17		
CPT-3	54.61	11	364.2	2.91	125	6956	4234	244.9	170.3	0.81	1.7	5.6	0.02	4.3	249.2	0.432	1.519	1.823	4.22		
CPT-3	54.67	11	359.7	2.67	115	6963	4237	241.8	168.1	0.75	1.7	5.3	0.01	2.2	244.0	0.432	1.431	1.717	3.98		
CPT-3	54.7	11	356.4	2.54	115	6966	4239	239.5	166.4	0.72	1.6	5.2	0.01	1.2	240.8	0.432	1.378	1.653	3.83		
CPT-3	54.76	11	344.5	2.4	115	6973	4242	231.4	160.7	0.70	1.7	5.3	0.01	1.8	233.2	0.432	1.260	1.512	3.50		
CPT-3	54.81	11	336.8	2.38	115	6979	4245	226.2	157.0	0.71	1.7	5.5	0.01	3.0	229.2	0.432	1.200	1.440	3.33		
CPT-3	54.84	11	330.3	2.15	115	6983	4246	221.8	153.9	0.66	1.7	5.2	0.01	1.3	223.1	0.432	1.112	1.335	3.09		
CPT-3	54.9	11	325.4	2.04	115	6989	4249	218.4	151.4	0.63	1.6	5.1	0.00	0.8	219.2	0.432	1.059	1.271	2.94		
CPT-3	54.96	11	314.6	2.11	115	6996	4253	211.1	146.2	0.68	1.7	5.7	0.02	3.8	214.9	0.432	1.003	1.204	2.79		
CPT-3	55.01	11	309.8	2.18	115	7002	4255	207.8	143.9	0.71	1.7	6.0	0.03	5.8	213.6	0.432	0.986	1.183	2.74		
CPT-3	55.07	11	300.7	2.35	125	7009	4258	201.6	139.5	0.79	1.7	6.8	0.05	10.0	211.6	0.432	0.961	1.153	2.67		
CPT-3	55.1	11	296.8	2.43	125	7013	4260	199.0	137.6	0.83	1.8	7.1	0.06	11.9	210.9	0.433	0.952	1.143	2.64		
CPT-3	55.16	11	277.5	2.38	125	7020	4264	185.9	128.5	0.87	1.8	7.9	0.08	15.4	201.3	0.433	0.839	1.007	2.33		
CPT-3	55.23	11	312.6	2.26	115	7029	4268	209.3	144.8	0.73	1.7	6.1	0.03	6.4	215.8	0.433	1.014	1.217	2.81		
CPT-3	55.29	11	328.9	2.92	125	7036	4272	220.2	152.3	0.90	1.7	6.9	0.05	11.9	232.1	0.433	1.243	1.491	3.45		
CPT-3	55.34	11	336.3	2.63	125	7042	4275	225.1	155.6	0.79	1.7	6.1	0.03	6.7	231.7	0.433	1.237	1.484	3.43		
CPT-3	55.39	11	347	2.6	125	7048	4278	232.1	160.5	0.76	1.7	5.7	0.02	4.2	236.3	0.433	1.307	1.569	3.62		
CPT-3	55.43	11	344.2	2.59	125	7053	4280	230.2	159.1	0.76	1.7	5.7	0.02	4.6	234.8	0.433	1.284	1.541	3.56		
CPT-3	55.48	11	362.9	2.59	115	7060	4283	242.6	167.7	0.72	1.6	5.2	0.00	1.0	243.6	0.433	1.425	1.710	3.95		
CPT-3	55.53	11	370.7	2.59	115	7065	4286	247.7	171.3	0.71	1.6	4.9	0.00	0.0	247.7	0.433	1.494	1.793	4.14		
CPT-3	55.58	11	358	2.59	115	7071	4289	239.2	165.2	0.73	1.7	5.3	0.01	2.0	241.2	0.433	1.385	1.662	3.84		
CPT-3	55.61	11	356.2	2.59	115	7075	4290	237.9	164.3	0.73	1.7	5.4	0.01	2.4	240.3	0.433	1.371	1.645	3.80		
CPT-3	55.68	11	355.9	2.65	115	7083	4294	237.6	164.0	0.75	1.7	5.5	0.01	3.2	240.9	0.433	1.379	1.655	3.82		
CPT-3	55.91	11	355.4	3.22	125	7109	4306	237.0	163.3	0.92	1.7	6.6	0.04	10.5	247.5	0.434	1.490	1.788	4.12		
CPT-3	55.97	11	354.8	3.23	125	7117	4310	236.5	162.9	0.92	1.7	6.6	0.04	10.8	247.3	0.434	1.486	1.784	4.11		
CPT-3	56.02	11	379	3.23	125	7123	4313	252.5	174.0	0.86	1.7	5.9	0.02	6.0	258.5	0.434	1.686	2.024	4.66		
CPT-3	56.07	11	378.8	3.31	125	7129	4316	252.3	173.8	0.88	1.7	6.0	0.03	7.0	259.3	0.434	1.701	2.042	4.70		
CPT-3	56.12	11	371.8	3.14	125	7135	4319	247.5	170.4	0.85	1.7	5.9	0.03	6.4	253.9	0.434	1.602	1.923	4.43		
CPT-3	56.16	11	385.3	3	125	7140	4322	256.4	176.6	0.79	1.7	5.3	0.01	2.1	258.5	0.434	1.687	2.024	4.66		
CPT-3	56.21	11	381.2	3.02	125	7147	4325	253.6	174.6	0.80	1.7	5.5	0.01	3.1	256.8	0.434	1.654	1.985	4.57		
CPT-3	56.25	11	377.3	3.06	125	7152	4327	251.0	172.7	0.82	1.7	5.6	0.02	4.4	255.4	0.434	1.629	1.954	4.50		
CPT-3	56.3	11	367.8	2.85	125	7158	4331	244.5	168.1	0.78	1.7	5.6	0.01	3.7	248.3	0.434	1.503	1.804	4.15		
CPT-3	56.35	11	359.6	2.67	115	7164	4334	239.0	164.2	0.75	1.7	5.5	0.01	3.1	242.1	0.434	1.400	1.680	3.87		
CPT-3	56.39	11	359.9	2.55	115	7169	4336	239.1	164.3	0.72	1.7	5.2	0.01	1.6	240.7	0.434	1.377	1.652	3.80		
CPT-3	56.46	11	374.6	2.69	115	7177	4339	248.8	170.9	0.73	1.6	5.1	0.00	0.5	249.3	0.435	1.522	1.826	4.20		
CPT-3	56.51	11	378.7	2.68	115	7183	4342	251.5	172.7	0.71	1.6	4.9	0.00	0.0	251.5	0.435	1.559	1.870	4.30		
CPT-3	56.55	11	381.6	2.65	115	7187	4344	253.3	174.0	0.70	1.6	4.8	0.00	0.0	253.3	0.435	1.592	1.910	4.39		
CPT-3	56.6	11	384.3	2.72	115	7193	4347	255.0	175.1	0.71	1.6	4.9	0.00	0.0	255.0	0.435	1.623	1.947	4.48		
CPT-3	56.64	11	383.2	2.78	115	7197	4349	254.2	174.5	0.73	1.6	5.0	0.00	0.1	254.3	0.435	1.610	1.932	4.44		
CPT-3	56.68	11	380.5	2.75	115	7202	4351	252.4	173.2	0.73	1.6	5.0	0.00	0.2	252.6	0.435	1.580	1.896	4.36		
CPT-3	56.76	11	398.7	2.74	115	7211	4355	264.3	181.4	0.69	1.6	4.5	0.00	0.0	264.3	0.435	1.798	2.157	4.96		
CPT-3	56.81	11	406.3	2.91	115	7217	4358	269.3	184.7	0.72	1.6	4.6	0.00	0.0	269.3	0.435	1.896	2.275	5.23		
CPT-3	56.85	11	405.7	2.98	115	7222	4360	268.8	184.4	0.74	1.6	4.8	0.00	0.0	268.8	0.435	1.887	2.264	5.20		
CPT-3	56.9	11	396.1	3.05	125	7227	4363	262.4	179.9	0.78	1.6	5.1	0.00</								

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-2
 Depth to Groundwater: 11.0 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	$\Delta Q_{(1N)}$	$(Q_{(1N)})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-3	57.12	11	406.1	2.85	115	7255	4376	268.6	183.9	0.71	1.6	4.6	0.00	0.0	268.6	0.436	1.882	2.258	5.18	
CPT-3	57.17	11	410.5	2.71	115	7261	4379	271.4	185.8	0.67	1.6	4.2	0.00	0.0	271.4	0.436	1.940	2.327	5.34	
CPT-3	57.21	11	411	2.66	115	7265	4381	271.7	185.9	0.65	1.6	4.1	0.00	0.0	271.7	0.436	1.945	2.334	5.36	
CPT-3	57.25	11	407.5	2.67	115	7270	4383	269.3	184.2	0.66	1.6	4.2	0.00	0.0	269.3	0.436	1.896	2.276	5.22	
CPT-3	57.32	11	424.6	2.75	115	7278	4387	280.5	191.8	0.65	1.6	4.0	0.00	0.0	280.5	0.436	2.132	2.559	5.87	
CPT-3	57.38	11	431.1	2.28	115	7285	4390	284.7	194.7	0.53	1.5	3.0	0.00	0.0	284.7	0.436	2.226	2.671	6.13	
CPT-3	57.42	11	431	2.42	115	7289	4392	284.5	194.5	0.57	1.5	3.3	0.00	0.0	284.5	0.436	2.223	2.667	6.12	
CPT-3	57.49	11	448.5	3	115	7297	4396	296.0	202.3	0.67	1.6	3.8	0.00	0.0	296.0	0.436	2.491	2.990	6.85	
CPT-3	57.54	11	444.8	3.57	125	7303	4398	293.4	200.5	0.81	1.6	4.8	0.00	0.0	293.4	0.436	2.430	2.916	6.68	
CPT-3	57.57	11	433.3	3.61	125	7307	4400	285.8	195.2	0.84	1.6	5.1	0.00	0.7	286.5	0.436	2.268	2.721	6.24	
CPT-3	57.62	11	428.8	3.71	125	7313	4403	282.7	193.0	0.87	1.7	5.4	0.01	2.7	285.5	0.436	2.243	2.692	6.17	
CPT-3	57.68	11	385.8	3.56	125	7321	4407	254.3	173.3	0.93	1.7	6.3	0.04	9.4	263.7	0.436	1.785	2.142	4.91	
CPT-3	57.75	11	428.2	3.67	125	7329	4412	282.1	192.4	0.86	1.7	5.3	0.01	2.5	284.6	0.437	2.223	2.667	6.11	
CPT-3	57.82	11	439.1	3.78	125	7338	4416	289.1	197.1	0.87	1.7	5.2	0.01	1.7	290.8	0.437	2.367	2.840	6.50	
CPT-3	57.88	11	457.3	4.94	125	7346	4420	301.0	205.2	1.09	1.7	6.3	0.03	10.7	311.7	0.437	2.896	3.475	7.96	
CPT-3	57.93	11	458.9	4.71	125	7352	4423	301.9	205.8	1.03	1.7	6.0	0.03	8.0	309.9	0.437	2.848	3.418	7.82	
CPT-3	57.97	11	455.2	4.49	125	7357	4425	299.4	204.0	0.99	1.7	5.8	0.02	6.4	305.8	0.437	2.739	3.287	7.52	
CPT-3	58.03	11	450.8	4.39	125	7364	4429	296.4	201.8	0.98	1.7	5.8	0.02	6.2	302.6	0.437	2.656	3.188	7.30	

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(1N)}$	$Q_{(1N)S}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	0.58	6.2	37.5	3.39	135	78	78	71.8	956.5	9.05	2.2	20.0	0.40	48.2	120.1	0.350	0.241	0.289	0.83	Above W.T.
CPT-4	0.68	6.2	33	2.85	135	92	92	63.2	717.7	8.65	2.2	20.5	0.41	44.4	107.6	0.350	0.196	0.235	0.67	Above W.T.
CPT-4	0.77	6.2	25.2	2.17	135	104	104	48.3	483.6	8.63	2.3	22.3	0.46	41.5	89.8	0.350	0.147	0.177	0.50	Above W.T.
CPT-4	0.87	6.2	17.9	1.82	135	117	117	34.3	303.7	10.20	2.4	28.0	0.61	54.4	88.7	0.350	0.145	0.174	0.50	Above W.T.
CPT-4	0.96	6.2	14.6	1.67	135	130	130	28.0	224.2	11.49	2.5	32.5	0.73	77.4	105.4	0.350	0.189	0.227	0.65	Above W.T.
CPT-4	1.04	6.2	13.8	1.6	135	140	140	26.4	195.5	11.65	2.6	34.0	0.78	91.1	117.5	0.350	0.231	0.277	0.79	Above W.T.
CPT-4	1.13	6.2	13.6	1.57	135	153	153	26.0	177.2	11.61	2.6	34.9	0.80	103.3	129.3	0.350	0.281	0.337	0.96	Above W.T.
CPT-4	1.22	6.2	13.5	1.58	135	165	165	25.9	162.9	11.78	2.6	36.0	0.80	103.4	129.3	0.350	0.281	0.337	0.96	Above W.T.
CPT-4	1.31	6.2	12.6	1.58	135	177	177	24.1	141.4	12.63	2.7	38.9	0.80	96.5	120.7	0.350	0.243	0.292	0.83	Above W.T.
CPT-4	1.4	6.2	12.7	1.55	135	189	189	24.3	133.3	12.30	2.7	39.0	0.80	97.3	121.6	0.350	0.247	0.297	0.85	Above W.T.
CPT-4	1.49	6.2	13.6	1.53	135	201	201	26.0	134.2	11.33	2.6	37.4	0.80	104.2	130.2	0.350	0.285	0.343	0.98	Above W.T.
CPT-4	1.58	6.2	13.8	1.51	135	213	213	26.4	128.3	11.03	2.6	37.4	0.80	105.7	132.1	0.350	0.295	0.354	1.01	Above W.T.
CPT-4	1.67	6.2	13.7	1.5	135	225	225	26.2	120.5	11.04	2.7	38.1	0.80	105.0	131.2	0.350	0.290	0.348	0.99	Above W.T.
CPT-4	1.76	6.2	13.3	1.5	135	238	238	25.5	110.9	11.38	2.7	39.7	0.80	101.9	127.4	0.350	0.272	0.327	0.93	Above W.T.
CPT-4	1.85	6.2	13.1	1.38	135	250	250	25.1	103.9	10.64	2.7	39.2	0.80	100.4	125.4	0.350	0.264	0.316	0.90	Above W.T.
CPT-4	1.94	6.2	13.1	1.06	135	262	262	25.1	99.0	8.17	2.6	35.0	0.80	100.8	125.9	0.350	0.266	0.319	0.91	Above W.T.
CPT-4	2.03	6.2	13.3	1.28	135	273	273	25.5	96.3	9.72	2.7	38.4	0.80	101.9	127.4	0.350	0.272	0.327	0.93	Above W.T.
CPT-4	2.12	6.2	13.3	1.3	135	285	285	25.5	92.2	9.88	2.7	39.3	0.80	101.9	127.4	0.350	0.272	0.327	0.93	Above W.T.
CPT-4	2.21	6.2	13.9	1.32	135	297	297	26.6	92.4	9.60	2.7	38.7	0.80	106.5	133.1	0.350	0.299	0.359	1.03	Above W.T.
CPT-4	2.29	6.2	15.6	1.36	135	308	308	29.9	100.2	8.80	2.6	36.2	0.80	119.5	149.4	0.350	0.390	0.468	1.34	Above W.T.
CPT-4	2.38	6.2	15.4	1.38	135	320	320	29.5	95.1	9.06	2.6	37.3	0.80	118.0	147.5	0.350	0.378	0.454	1.30	Above W.T.
CPT-4	2.47	6.2	15.3	1.37	135	333	333	29.3	91.0	9.05	2.6	37.8	0.80	117.2	146.5	0.350	0.372	0.447	1.28	Above W.T.
CPT-4	2.56	6.2	14.5	1.34	135	345	345	27.8	83.1	9.35	2.7	39.6	0.80	111.1	138.9	0.350	0.329	0.395	1.13	Above W.T.
CPT-4	2.66	6.2	14.3	1.32	135	358	358	27.4	78.8	9.35	2.7	40.3	0.80	109.5	136.9	0.350	0.319	0.383	1.09	Above W.T.
CPT-4	2.75	6.2	14.4	1.31	135	370	370	27.6	76.7	9.22	2.7	40.4	0.80	110.3	137.9	0.350	0.324	0.389	1.11	Above W.T.
CPT-4	2.84	6.2	14.3	1.32	135	383	383	27.4	73.7	9.36	2.7	41.2	0.80	109.5	136.9	0.350	0.319	0.383	1.09	Above W.T.
CPT-4	2.93	6.2	14.5	1.36	135	395	395	27.8	72.5	9.51	2.7	41.8	0.80	111.1	138.9	0.350	0.329	0.395	1.13	Above W.T.
CPT-4	3.03	6.2	14.3	1.37	135	408	408	27.4	69.0	9.72	2.7	42.9	0.80	109.5	136.9	0.350	0.319	0.383	1.09	Above W.T.
CPT-4	3.12	6.2	15	1.38	135	420	420	28.7	70.3	9.33	2.7	41.8	0.80	114.9	143.6	0.350	0.356	0.427	1.22	Above W.T.
CPT-4	3.21	6.2	14.5	1.37	135	432	432	27.8	66.0	9.59	2.8	43.3	0.80	111.1	138.9	0.350	0.329	0.395	1.13	Above W.T.
CPT-4	3.3	6.2	14.4	1.34	135	445	445	27.6	63.8	9.45	2.8	43.5	0.80	110.3	137.9	0.350	0.324	0.389	1.11	Above W.T.
CPT-4	3.4	6.2	13.9	1.29	135	458	458	26.6	59.7	9.44	2.8	44.4	0.80	106.5	133.1	0.350	0.299	0.359	1.03	Above W.T.
CPT-4	3.49	6.2	13.9	1.24	135	470	470	26.6	58.1	9.07	2.8	44.1	0.80	106.5	133.1	0.350	0.299	0.359	1.03	Above W.T.
CPT-4	3.58	6.2	13.2	1.23	135	482	482	25.3	53.7	9.49	2.8	46.2	0.80	101.1	126.4	0.350	0.268	0.321	0.92	Above W.T.
CPT-4	3.68	6.2	13.1	1.24	135	496	496	25.1	51.8	9.65	2.8	47.0	0.80	100.4	125.4	0.350	0.264	0.316	0.90	Above W.T.
CPT-4	3.77	6.2	13.4	1.26	135	508	508	25.7	51.7	9.58	2.8	46.9	0.80	102.7	128.3	0.350	0.276	0.332	0.95	Above W.T.
CPT-4	3.86	6.2	13.2	1.31	135	520	520	25.3	49.7	10.12	2.8	48.7	0.80	101.1	126.4	0.350	0.268	0.321	0.92	Above W.T.
CPT-4	3.96	6.2	13.6	1.37	135	534	534	25.8	49.9	10.28	2.8	48.9	0.80	103.0	128.8	0.350	0.279	0.334	0.95	Above W.T.
CPT-4	4.05	6.2	13.8	1.41	135	546	546	25.8	49.5	10.42	2.9	49.3	0.80	103.4	129.2	0.350	0.281	0.337	0.96	Above W.T.
CPT-4	4.14	6.2	13.8	1.41	135	558	558	25.6	48.4	10.43	2.9	49.7	0.80	102.2	127.8	0.350	0.274	0.329	0.94	Above W.T.
CPT-4	4.23	6.2	13.9	1.44	135	570	570	25.5	47.7	10.58	2.9	50.2	0.80	101.9	127.4	0.350	0.272	0.327	0.93	Above W.T.
CPT-4	4.32	6.2	14.5	1.46	135	582	582	26.3	48.8	10.28	2.9	49.3	0.80	105.2	131.5	0.350	0.291	0.350	1.00	Above W.T.
CPT-4	4.42	6.2	14.1	1.46	135	596	596	25.3	46.3	10.58	2.9	50.7	0.80	101.1	126.4	0.350	0.268	0.321	0.92	Above W.T.
CPT-4	4.51	6.2	14.1	1.46	135	608	608	25.0	45.4	10.58	2.9	51.1	0.80	100.1	125.1	0.350	0.262	0.315	0.90	Above W.T.
CPT-4	4.6	6.2	14.2	1.46	135	620	620	25.0	44.8	10.51	2.9	51.2	0.80	99.8	124.8	0.350	0.261	0.313	0.89	Above W.T.
CPT-4	4.69	6.2	13.8	1.44	135	632	632	24.0	42.6	10.68	2.9	52.3	0.80	96.1	120.1	0.350	0.241	0.289	0.83	Above W.T.
CPT-4	4.78	6.2	13.8	1.42	135	644	644	23.8	41.8	10.54	2.9	52.4	0.80	95.1	118.9	0.350	0.236	0.284	0.81	Above W.T.
CPT-4	4.87	6.2	13.5	1.4	135	657	657	23.1	40.1	10.63	2.9	53.3	0.80	92.2	115.3	0.350	0.222	0.267	0.76	Above W.T.
CPT-4	4.97	6.2	13.6	1.4	135	670	670	23.0	39.6	10.55	2.9	53.4	0.80	92.0	114.9	0.350	0.221	0.265	0.76	Above W.T.
CPT-4	5.06	6.2	13	1.4	135	682	682	21.8	37.1	11.06	3.0	55.6	0.80	87.1	108.9	0.350	0.200	0.240	0.69	Above W.T.
CPT-4	5.15	6.2	13	1.35	135	694	694	21.6	36.4	10.67	2.9	55.1	0.80	86.3	107.9	0.350	0.197	0.236	0.67	Above W.T.
CPT-4	5.24	6.2	13.8	1.3	135	707	707	22.7	38.0	9.67	2.9	52.3	0.80	90.9	113.6	0.350	0.216	0.260	0.74	Above W.T.
CPT-4	5.33	6.2	14.5	1.46	135	719	719	23.7	39.3	10.32	2.9	53.0	0.80	94.7	118.3	0.350	0.234	0.281	0.80	Above W.T.
CPT-4	5.42	6.2	15.3	1.5	135	731	731	24.8	40.9	10.04	2.9	51.8	0.80	99.1	123.8	0.350	0.257	0.308	0.88	Above W.T.
CPT-4	5.49	6.2	14	1.51	135	740	740	22.5	36.8	11.08	3.0	55.7	0.80	90.1	112.6	0.350	0.213	0.255	0.73	Above W.T.
CPT-4	5.58	6.2	16.3	1.51	135	752	752	26.0	42.3	9.48	2.9	50.0	0.80	104.0	130.0	0.350	0.284	0.341	0.97	Above W.T.
CPT-4	5.67	6.2	17.6	1.51	135	765	765	27.9	45.0	8.77	2.8	47.4	0.80	111.4	139.3	0.350	0.331	0.397	1.13	Above W.T.
CPT-4	5.76	6.2	17.7	1.5	135	777	777	27.8	44.6	8.66	2.8	47.4	0.80	111.2	138.9	0.350	0.329	0.395	1.13	Above W.T.
CPT-4	5.85	6.2	18.5	1.52	135	789	789	28.8	45.9	8.40	2.8	46.3	0.80	115.3	144.1	0.350	0.358	0.430	1.23	Above W.T.
CPT-4	5.94	6.2	19.1	1.54	135	801	801	29.5	46.7	8.24	2.8	45.6	0.80	118.1	147.6	0.350	0.379	0.455	1.30	Above W.T.
CPT-4	6.03	6.2	19.3	1.54	135	813	813	29.6	46.4	8.15	2.8	45.5	0.80	118.5	148.1	0.350	0.382	0.458	1.31	Above W.T.
CPT-4	6.12	6.2	21	1.54	135	825	825	32.0	49.9	7.48	2.7	42.8	0.80	127.9	159.9	0.350	0.460	0.552	1.58	Above W.T.

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{IN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{IN}	$(q_{IN})_N$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	6.76	6.2	27.4	1.93	135	912	872	40.6	61.8	7.16	2.7	38.8	0.80	162.4	203.0	0.366	0.858	1.030	2.81	NonLiqfble.
CPT-4	6.85	6.2	30	1.97	135	924	878	44.3	67.2	6.67	2.6	36.5	0.80	177.2	221.5	0.369	1.090	1.308	3.55	NonLiqfble.
CPT-4	6.93	6.2	30.5	1.99	135	935	884	44.9	67.9	6.63	2.6	36.2	0.80	179.5	224.4	0.370	1.131	1.357	3.66	NonLiqfble.
CPT-4	7.02	6.2	30.5	2	135	947	891	44.7	67.4	6.66	2.6	36.4	0.80	178.9	223.6	0.372	1.119	1.343	3.61	NonLiqfble.
CPT-4	7.11	6.2	29.9	1.99	135	959	897	43.7	65.6	6.76	2.6	37.0	0.80	174.7	218.4	0.374	1.049	1.258	3.36	NonLiqfble.
CPT-4	7.2	6.2	28.6	1.99	135	971	904	41.6	62.2	7.08	2.7	38.5	0.80	166.5	208.1	0.376	0.918	1.102	2.93	NonLiqfble.
CPT-4	7.29	6.2	27.4	1.98	135	983	910	39.7	59.1	7.36	2.7	40.0	0.80	158.9	198.7	0.378	0.809	0.971	2.57	NonLiqfble.
CPT-4	7.37	6.2	25.5	1.9	135	994	916	36.9	54.6	7.60	2.7	41.7	0.80	147.5	184.3	0.380	0.662	0.795	2.09	NonLiqfble.
CPT-4	7.46	6.2	23.2	1.81	135	1006	923	33.4	49.2	7.97	2.8	44.2	0.80	133.7	167.1	0.382	0.514	0.617	1.61	NonLiqfble.
CPT-4	7.57	6.2	21.3	1.65	135	1021	931	30.6	44.7	7.94	2.8	45.6	0.80	122.2	152.8	0.384	0.411	0.494	1.28	NonLiqfble.
CPT-4	7.66	6.2	19.1	1.53	135	1033	937	27.3	39.6	8.23	2.8	48.3	0.80	109.2	136.5	0.386	0.317	0.380	0.98	NonLiqfble.
CPT-4	7.75	6.2	17.2	1.41	135	1045	944	24.5	35.3	8.45	2.9	50.9	0.80	98.0	122.5	0.388	0.251	0.301	0.78	NonLiqfble.
CPT-4	7.83	6.2	16.4	1.3	135	1056	949	23.3	33.4	8.19	2.9	51.2	0.80	93.2	116.4	0.390	0.227	0.272	0.70	NonLiqfble.
CPT-4	7.93	6.2	15.7	1.19	135	1070	957	22.2	31.7	7.85	2.9	51.3	0.80	88.8	111.0	0.392	0.207	0.249	0.64	NonLiqfble.
CPT-4	8.01	6.2	15.2	1.1	135	1080	963	21.4	30.4	7.50	2.9	51.2	0.80	85.7	107.2	0.393	0.195	0.233	0.59	NonLiqfble.
CPT-4	8.1	6.2	13.7	1.03	125	1093	969	19.3	27.1	7.83	2.9	54.2	0.80	77.0	96.3	0.395	0.163	0.196	0.50	NonLiqfble.
CPT-4	8.19	6.2	12.5	0.95	125	1104	975	17.5	24.5	7.95	3.0	56.5	0.80	70.1	87.6	0.397	0.142	0.171	0.43	NonLiqfble.
CPT-4	8.28	6.2	12	0.91	125	1115	980	16.8	23.3	7.95	3.0	57.5	0.80	67.1	83.8	0.399	0.135	0.162	0.41	NonLiqfble.
CPT-4	8.37	6.2	11.3	0.84	125	1126	986	15.7	21.8	7.82	3.0	58.6	0.80	63.0	78.7	0.400	0.125	0.150	0.38	NonLiqfble.
CPT-4	8.47	6.2	11.9	0.79	125	1139	992	16.5	22.8	6.97	3.0	55.3	0.80	66.1	82.6	0.402	0.133	0.159	0.40	NonLiqfble.
CPT-4	8.56	6.2	12	0.76	125	1150	998	16.6	22.9	6.65	2.9	54.4	0.80	66.5	83.1	0.404	0.133	0.160	0.40	NonLiqfble.
CPT-4	8.64	6.2	12.7	0.73	125	1160	1003	17.5	24.2	6.02	2.9	51.4	0.80	70.2	87.7	0.405	0.143	0.171	0.42	NonLiqfble.
CPT-4	8.73	6.2	11.9	0.71	125	1171	1008	16.4	22.4	6.28	2.9	53.6	0.80	65.6	82.0	0.407	0.131	0.157	0.39	NonLiqfble.
CPT-4	8.83	6.2	11	0.72	125	1184	1015	15.1	20.5	6.92	3.0	57.4	0.80	60.4	75.5	0.409	0.120	0.144	0.35	NonLiqfble.
CPT-4	8.91	6.2	9.7	0.7	125	1194	1020	13.3	17.8	7.69	3.1	62.5	0.80	53.2	66.5	0.410	0.107	0.129	0.31	NonLiqfble.
CPT-4	8.96	6.2	10.2	0.68	125	1200	1023	14.0	18.8	7.08	3.0	59.7	0.80	55.8	69.8	0.411	0.112	0.134	0.33	NonLiqfble.
CPT-4	9.01	6.2	10.7	0.66	125	1206	1026	14.6	19.7	6.54	3.0	57.1	0.80	58.5	73.1	0.412	0.116	0.140	0.34	NonLiqfble.
CPT-4	9.1	6.2	9.7	0.63	125	1218	1032	13.2	17.6	6.93	3.0	60.7	0.80	52.9	66.1	0.413	0.107	0.128	0.31	NonLiqfble.
CPT-4	9.19	6.2	9.1	0.61	125	1229	1037	12.4	16.4	7.19	3.1	63.1	0.80	49.5	61.8	0.415	0.102	0.122	0.29	NonLiqfble.
CPT-4	9.27	6.2	8.3	0.58	115	1239	1042	11.2	14.7	7.55	3.1	66.5	0.80	45.0	56.2	0.416	0.097	0.116	0.28	NonLiqfble.
CPT-4	9.37	6.2	8.5	0.59	125	1250	1048	11.5	15.0	7.49	3.1	65.9	0.80	46.0	57.5	0.418	0.098	0.117	0.28	NonLiqfble.
CPT-4	9.46	6.2	8.6	0.59	125	1262	1053	11.6	15.1	7.40	3.1	65.5	0.80	46.4	58.0	0.420	0.098	0.118	0.28	NonLiqfble.
CPT-4	9.54	6.2	9	0.61	125	1272	1058	12.1	15.8	7.29	3.1	64.2	0.80	48.4	60.5	0.421	0.101	0.121	0.29	NonLiqfble.
CPT-4	9.64	6.2	10.4	0.65	125	1284	1064	13.9	18.3	6.66	3.0	59.0	0.80	55.8	69.7	0.423	0.112	0.134	0.32	NonLiqfble.
CPT-4	9.73	6.2	12.6	0.72	125	1295	1070	16.9	22.3	6.02	2.9	53.0	0.80	67.4	84.3	0.424	0.136	0.163	0.38	NonLiqfble.
CPT-4	9.82	6.2	13.6	0.81	125	1307	1076	18.1	24.1	6.26	2.9	52.2	0.80	72.6	90.7	0.426	0.149	0.179	0.42	NonLiqfble.
CPT-4	9.91	6.2	16.2	0.88	125	1318	1081	21.6	28.7	5.66	2.8	47.0	0.80	86.2	107.8	0.427	0.196	0.236	0.55	NonLiqfble.
CPT-4	10	6.2	17.1	0.98	135	1329	1087	22.7	30.2	5.96	2.8	47.0	0.80	90.8	113.5	0.420	0.216	0.259	0.62	NonLiqfble.
CPT-4	10.09	6.2	18.6	1.08	135	1341	1094	24.6	32.8	6.02	2.8	45.8	0.80	98.4	123.1	0.421	0.253	0.304	0.72	NonLiqfble.
CPT-4	10.18	6.2	20.1	1.17	135	1353	1100	26.5	35.3	6.02	2.8	44.5	0.80	106.1	132.6	0.422	0.297	0.356	0.84	NonLiqfble.
CPT-4	10.27	6.2	21.2	1.26	135	1366	1107	27.9	37.1	6.14	2.8	44.0	0.80	111.5	139.4	0.424	0.332	0.398	0.94	NonLiqfble.
CPT-4	10.36	6.2	21.8	1.3	135	1378	1113	28.6	37.9	6.16	2.8	43.7	0.80	114.4	142.9	0.425	0.352	0.422	0.99	NonLiqfble.
CPT-4	10.45	6.2	20.8	1.27	135	1390	1120	27.2	35.9	6.32	2.8	45.1	0.80	108.8	136.0	0.426	0.314	0.377	0.88	NonLiqfble.
CPT-4	10.54	6.2	20.1	1.27	135	1402	1126	26.2	34.4	6.55	2.8	46.4	0.80	104.8	131.0	0.427	0.289	0.347	0.81	NonLiqfble.
CPT-4	10.63	6.2	19.4	1.19	135	1414	1133	25.2	33.0	6.37	2.8	46.7	0.80	100.9	126.1	0.429	0.266	0.320	0.75	NonLiqfble.
CPT-4	10.72	6.2	18.5	1.09	135	1426	1139	24.0	31.2	6.13	2.8	47.0	0.80	95.9	119.9	0.430	0.240	0.288	0.67	NonLiqfble.
CPT-4	10.81	6.2	17.2	1.02	135	1438	1146	22.2	28.8	6.19	2.8	48.6	0.80	88.9	111.2	0.431	0.208	0.249	0.58	NonLiqfble.
CPT-4	10.9	6.2	16.1	0.95	125	1451	1152	20.8	26.7	6.18	2.9	50.0	0.80	83.0	103.8	0.432	0.184	0.221	0.51	NonLiqfble.
CPT-4	10.99	6.2	15	0.89	125	1462	1158	19.3	24.6	6.24	2.9	51.7	0.80	77.1	96.4	0.433	0.163	0.196	0.45	NonLiqfble.
CPT-4	11.08	6.2	14.4	0.86	125	1473	1164	18.5	23.5	6.29	2.9	52.8	0.80	73.9	92.4	0.435	0.153	0.184	0.42	NonLiqfble.
CPT-4	11.17	6.2	12.6	0.82	125	1484	1169	16.1	20.3	6.92	3.0	57.6	0.80	64.5	80.6	0.436	0.129	0.154	0.35	NonLiqfble.
CPT-4	11.26	6.2	11.2	0.78	125	1496	1175	14.3	17.8	7.46	3.1	62.0	0.80	57.2	71.5	0.437	0.114	0.137	0.31	NonLiqfble.
CPT-4	11.35	6.2	9.6	0.74	125	1507	1180	12.2	15.0	8.37	3.1	68.4	0.80	48.9	61.1	0.438	0.101	0.121	0.28	NonLiqfble.
CPT-4	11.44	6.2	8.9	0.66	125	1518	1186	11.3	13.7	8.11	3.2	69.8	0.80	45.2	56.5	0.439	0.097	0.116	0.26	NonLiqfble.
CPT-4	11.52	6.2	7.7	0.59	115	1528	1191	9.8	11.6	8.51	3.2	75.0	0.80	39.0	48.8	0.440	0.091	0.109	0.25	NonLiqfble.
CPT-4	11.61	6.2	7.1	0.55	115	1538	1196	9.0	10.6	8.69	3.3	77.9	0.80	35.9	44.9	0.442	0.088	0.106	0.24	NonLiqfble.
CPT-4	11.7	6.2	6.4	0.5	115	1549	1201	8.1	9.4	8.89	3.3	81.8	0.80	32.3	40.4	0.443	0.086	0.103	0.23	NonLiqfble.
CPT-4	11.8	6.2	6.4	0.46	115	1560	1206	8.1	9.3	8.19	3.3	80.0	0.80	32.3	40.3	0.444	0.086	0.103	0.23	NonLiqfble.
CPT-4	11.88	6.2	6.2	0.44	115	1570	1210	7.8	8.9	8.13	3.3	80.9	0.80	31.2	39.0	0.445	0.086	0.103	0.23	NonLiqfble.
CPT-4	11.98	6.2	5.9	0.42	115	1581	1215	7.4	8.4	8.22	3.3	82.9	0.80	29.6	37.0	0.447	0.085	0.102	0.23	NonLiqfble.
CPT-4	12.07	6.2	6.1	0.44	115	1591	1220	7.6	8.7	8.30	3.3	82.2	0.80	30.6	38.2	0.448	0.085	0.102	0.23	NonLiqfble.
CPT-4	12.15	6.2	6.2	0.45	115	1601	1224	7.8	8.8	8.33										

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{cpr}	Δq_{c1N}	$(Q_{c1N})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	12.64	6.2	11.4	0.48	125	1661	1254	14.1	16.9	4.54	2.9	53.6	0.80	56.3	70.4	0.455	0.113	0.135	0.30	NonLiqfble.
CPT-4	12.73	6.2	10.6	0.4	115	1672	1259	13.1	15.5	4.10	2.9	53.6	0.80	52.3	65.3	0.456	0.106	0.127	0.28	NonLiqfble.
CPT-4	12.82	6.2	8.7	0.38	115	1682	1264	10.7	12.4	4.84	3.0	61.5	0.80	42.8	53.5	0.457	0.094	0.113	0.25	NonLiqfble.
CPT-4	12.91	6.2	7	0.37	115	1692	1269	8.6	9.7	6.01	3.2	72.1	0.80	34.4	43.0	0.458	0.087	0.105	0.23	NonLiqfble.
CPT-4	13.01	6.2	6.1	0.4	115	1704	1274	7.5	8.2	7.62	3.3	81.7	0.80	29.9	37.4	0.459	0.085	0.102	0.22	NonLiqfble.
CPT-4	13.09	6.2	8.6	0.45	115	1713	1278	10.5	12.1	5.81	3.1	65.8	0.80	42.1	52.6	0.460	0.094	0.112	0.24	NonLiqfble.
CPT-4	13.19	6.2	9.9	0.48	115	1725	1283	12.1	14.1	5.31	3.0	60.4	0.80	48.4	60.5	0.461	0.101	0.121	0.26	NonLiqfble.
CPT-4	13.27	6.2	7.5	0.47	115	1734	1288	9.1	10.3	7.09	3.2	74.0	0.80	36.6	45.7	0.462	0.089	0.107	0.23	NonLiqfble.
CPT-4	13.36	6.2	6.1	0.53	115	1744	1292	7.4	8.1	10.14	3.4	89.2	0.80	29.7	37.1	0.463	0.085	0.102	0.22	NonLiqfble.
CPT-4	13.46	6.2	7.4	0.52	115	1756	1298	9.0	10.0	7.97	3.3	77.3	0.80	36.0	44.9	0.465	0.088	0.106	0.23	NonLiqfble.
CPT-4	13.55	6.2	7.2	0.53	115	1766	1302	8.7	9.7	8.39	3.3	79.5	0.80	34.9	43.6	0.466	0.088	0.105	0.23	NonLiqfble.
CPT-4	13.64	6.2	7.8	0.56	115	1776	1307	9.4	10.6	8.10	3.2	76.4	0.80	37.8	47.2	0.467	0.090	0.108	0.23	NonLiqfble.
CPT-4	13.73	6.2	9.2	0.66	125	1787	1312	11.1	12.7	7.95	3.2	71.3	0.80	44.5	55.6	0.468	0.096	0.115	0.25	NonLiqfble.
CPT-4	13.82	6.2	14.8	0.77	125	1798	1318	17.8	21.1	5.54	2.9	52.5	0.80	71.4	89.2	0.469	0.146	0.175	0.37	NonLiqfble.
CPT-4	13.91	6.2	19.6	0.88	135	1809	1323	23.6	28.2	4.71	2.8	44.1	0.80	94.3	117.9	0.469	0.232	0.279	0.59	NonLiqfble.
CPT-4	14	6.2	22.1	1.04	135	1821	1330	26.5	31.9	4.91	2.7	42.7	0.80	106.1	132.6	0.470	0.297	0.356	0.76	NonLiqfble.
CPT-4	14.09	6.2	26.7	1.09	135	1834	1336	32.0	38.6	4.23	2.6	37.2	0.80	127.8	159.8	0.471	0.459	0.551	1.17	NonLiqfble.
CPT-4	14.18	6.2	27.7	1.12	135	1846	1343	33.1	39.9	4.18	2.6	36.5	0.80	132.3	165.4	0.472	0.501	0.601	1.27	NonLiqfble.
CPT-4	14.27	6.2	26	1.19	135	1858	1349	31.0	37.1	4.75	2.7	39.6	0.80	123.9	154.8	0.473	0.425	0.510	1.08	NonLiqfble.
CPT-4	14.35	6.2	26.4	1.23	135	1869	1355	31.4	37.6	4.83	2.7	39.7	0.80	125.5	156.9	0.473	0.439	0.527	1.11	NonLiqfble.
CPT-4	14.44	6.2	30.5	1.27	135	1881	1362	36.2	43.4	4.30	2.6	35.7	0.80	144.7	180.8	0.474	0.630	0.756	1.59	NonLiqfble.
CPT-4	14.53	6.2	31.6	1.28	135	1893	1368	37.4	44.8	4.18	2.6	34.8	0.79	144.6	182.0	0.475	0.641	0.769	1.62	NonLiqfble.
CPT-4	14.62	6.2	30.8	1.27	135	1905	1375	36.3	43.4	4.26	2.6	35.5	0.80	145.4	181.7	0.476	0.638	0.766	1.61	NonLiqfble.
CPT-4	14.71	6.2	27.5	1.2	135	1917	1381	32.4	38.4	4.52	2.7	38.3	0.80	129.5	161.9	0.477	0.474	0.569	1.19	NonLiqfble.
CPT-4	14.8	6.2	24.3	1.08	135	1929	1388	28.5	33.6	4.63	2.7	40.9	0.80	114.2	142.7	0.477	0.350	0.420	0.88	NonLiqfble.
CPT-4	14.89	6.2	21.1	0.98	135	1942	1394	24.7	28.9	4.87	2.8	44.3	0.80	98.9	123.6	0.478	0.256	0.307	0.64	NonLiqfble.
CPT-4	14.98	6.2	20.5	0.89	135	1954	1401	24.0	27.9	4.56	2.8	43.9	0.80	95.9	119.8	0.479	0.240	0.288	0.60	NonLiqfble.
CPT-4	15.07	6.2	20.8	0.83	135	1966	1407	24.3	28.1	4.19	2.7	42.3	0.80	97.0	121.3	0.480	0.246	0.295	0.62	NonLiqfble.
CPT-4	15.15	6.2	21.4	0.77	125	1977	1413	24.9	28.9	3.77	2.7	40.2	0.80	99.6	124.5	0.480	0.260	0.312	0.65	NonLiqfble.
CPT-4	15.25	6.2	22.2	0.76	125	1989	1419	25.8	29.9	3.58	2.7	38.9	0.80	103.1	128.9	0.481	0.279	0.335	0.70	NonLiqfble.
CPT-4	15.33	6.2	23.2	0.94	135	1999	1424	26.9	31.2	4.23	2.7	40.7	0.80	107.6	134.5	0.482	0.306	0.367	0.76	NonLiqfble.
CPT-4	15.42	6.2	25.6	1.05	135	2011	1431	29.6	34.4	4.27	2.7	39.2	0.80	118.4	148.1	0.483	0.382	0.458	0.95	NonLiqfble.
CPT-4	15.49	6.2	22.8	1.11	135	2021	1436	26.3	30.3	5.09	2.8	44.2	0.80	105.3	131.6	0.483	0.292	0.350	0.73	NonLiqfble.
CPT-4	15.55	6.2	31.7	1.15	135	2029	1440	36.5	42.6	3.75	2.6	33.9	0.77	123.9	160.4	0.484	0.464	0.557	1.15	Low F.S.
CPT-4	15.64	6.2	29.7	1.2	135	2041	1447	34.2	39.6	4.18	2.6	36.6	0.80	136.6	170.8	0.484	0.543	0.652	1.35	NonLiqfble.
CPT-4	15.73	6.2	29.2	1.17	135	2053	1453	33.5	38.7	4.15	2.6	36.9	0.80	134.0	167.6	0.485	0.517	0.621	1.28	NonLiqfble.
CPT-4	15.81	6.2	29.8	1.1	135	2064	1459	34.1	39.4	3.82	2.6	35.4	0.80	136.5	170.7	0.486	0.542	0.651	1.34	NonLiqfble.
CPT-4	15.9	6.2	30.3	1.09	135	2076	1466	34.6	39.9	3.73	2.6	34.8	0.80	135.0	169.6	0.486	0.534	0.640	1.32	NonLiqfble.
CPT-4	15.99	6.2	29.4	1.05	135	2088	1472	33.5	38.5	3.70	2.6	35.3	0.80	134.1	167.6	0.487	0.518	0.622	1.28	NonLiqfble.
CPT-4	16.08	6.2	26.6	0.99	135	2100	1479	30.3	34.5	3.87	2.6	37.6	0.80	121.1	151.3	0.488	0.402	0.483	0.99	NonLiqfble.
CPT-4	16.17	6.2	22.3	0.97	135	2113	1485	25.3	28.6	4.57	2.8	43.4	0.80	101.3	126.6	0.488	0.269	0.322	0.66	NonLiqfble.
CPT-4	16.26	6.2	19.8	0.93	135	2125	1492	22.4	25.1	4.96	2.8	47.2	0.80	89.7	112.1	0.489	0.211	0.253	0.52	NonLiqfble.
CPT-4	16.34	6.2	17.7	0.83	125	2136	1498	20.0	22.2	4.99	2.9	49.6	0.80	80.0	100.1	0.490	0.173	0.208	0.42	NonLiqfble.
CPT-4	16.43	6.2	17	0.8	125	2147	1503	19.2	21.2	5.02	2.9	50.7	0.80	76.7	95.9	0.490	0.162	0.194	0.40	NonLiqfble.
CPT-4	16.53	6.2	18.2	0.8	125	2159	1510	20.5	22.7	4.67	2.8	48.1	0.80	82.0	102.5	0.491	0.180	0.216	0.44	NonLiqfble.
CPT-4	16.61	6.2	18.8	0.78	125	2169	1515	21.1	23.4	4.40	2.8	46.5	0.80	84.5	105.7	0.492	0.190	0.228	0.46	NonLiqfble.
CPT-4	16.7	6.2	19.6	0.79	125	2181	1520	22.0	24.3	4.27	2.8	45.2	0.80	88.0	110.0	0.492	0.204	0.244	0.50	NonLiqfble.
CPT-4	16.79	6.2	19.7	0.89	135	2192	1526	22.1	24.4	4.78	2.8	47.1	0.80	88.3	110.3	0.493	0.205	0.246	0.50	NonLiqfble.
CPT-4	16.88	6.2	18.5	1	135	2204	1532	20.7	22.7	5.75	2.9	51.8	0.80	82.7	103.4	0.494	0.183	0.219	0.44	NonLiqfble.
CPT-4	16.97	6.2	18.2	1.09	135	2216	1539	20.3	22.2	6.38	2.9	54.2	0.80	81.2	101.5	0.494	0.177	0.213	0.43	NonLiqfble.
CPT-4	17.06	6.2	24	1.22	135	2228	1546	26.7	29.6	5.33	2.8	45.4	0.80	106.8	133.6	0.495	0.302	0.362	0.73	NonLiqfble.
CPT-4	17.14	6.2	33.6	1.4	135	2239	1551	37.3	41.9	4.31	2.6	36.3	0.80	149.3	186.6	0.496	0.684	0.821	1.66	NonLiqfble.
CPT-4	17.24	6.2	39.7	1.6	135	2253	1559	44.0	49.5	4.15	2.6	33.2	0.75	134.6	178.6	0.496	0.609	0.731	1.47	NonLiqfble.
CPT-4	17.32	6.2	41.8	1.89	135	2263	1564	46.2	52.0	4.65	2.6	34.2	0.78	164.3	210.5	0.497	0.948	1.137	2.29	NonLiqfble.
CPT-4	17.41	6.2	43.4	2.17	135	2275	1571	47.9	53.8	5.13	2.6	35.3	0.80	191.6	239.5	0.497	1.358	1.630	3.28	NonLiqfble.
CPT-4	17.5	6.2	44.3	2.39	135	2288	1577	48.8	54.7	5.54	2.6	36.3	0.80	195.2	244.0	0.498	1.431	1.717	3.45	NonLiqfble.
CPT-4	17.59	6.2	44.5	2.54	135	2300	1584	48.9	54.7	5.86	2.6	37.2	0.80	195.7	244.6	0.498	1.441	1.729	3.47	NonLiqfble.
CPT-4	17.67	6.2	48.3	2.71	135	2311	1590	53.0	59.3	5.75	2.6	35.7	0.80	212.0	265.0	0.499	1.811	2.173	4.35	NonLiqfble.
CPT-4	17.76	6.2	55.3	2.95	135	2323	1596	60.6	67.8	5.45	2.6	33.1	0.75	181.0	241.5	0.500	1.390	1.669	3.34	NonLiqfble.
CPT-4	17.85	6.2	56.9	2.97	135	2335	1603	62.2	69.5	5.33	2.5	32.4	0.73	169.4	231.5	0.500	1.234	1.481	2.96	NonLiqfble.
CPT-4	17.95	6.2	52.1	2.9	135	2348	1610	56.8	63.2	5.69	2.6	34.7	0.79	217.1	273.9	0.501	1.992	2.		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{tip}	$(Q_{tip})_{ns}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	18.55	6.2	62.5	3.14	135	2429	1654	67.2	74.1	5.12	2.5	31.0	0.69	152.4	219.7	0.504	1.066	1.279	2.54	
CPT-4	18.64	6.2	88.8	3.68	135	2442	1660	95.4	105.5	4.20	2.3	24.2	0.51	99.9	195.3	0.505	0.773	0.927	1.84	
CPT-4	18.71	6.2	99.7	4.12	135	2451	1665	106.9	118.2	4.18	2.3	23.0	0.48	98.5	205.4	0.505	0.885	1.062	2.10	
CPT-4	18.77	6.2	103.7	4.31	135	2459	1670	111.0	122.7	4.21	2.3	22.7	0.47	99.1	210.1	0.506	0.943	1.132	2.24	
CPT-4	18.85	6.2	101.4	4.32	135	2470	1675	108.4	119.5	4.31	2.3	23.2	0.49	103.0	211.3	0.506	0.958	1.150	2.27	
CPT-4	18.94	6.2	98.8	4.25	135	2482	1682	105.4	116.0	4.36	2.3	23.7	0.50	104.9	210.3	0.507	0.944	1.133	2.24	
CPT-4	19.02	6.2	94.8	4.29	135	2493	1688	101.0	110.8	4.59	2.4	24.8	0.53	113.6	214.5	0.507	0.998	1.198	2.36	
CPT-4	19.11	6.2	91.8	4.3	135	2505	1694	97.6	106.8	4.75	2.4	25.7	0.55	120.4	218.0	0.508	1.043	1.252	2.47	
CPT-4	19.19	6.2	88.6	4.23	135	2516	1700	94.0	102.7	4.84	2.4	26.4	0.57	125.1	219.1	0.508	1.058	1.270	2.50	
CPT-4	19.28	6.2	84.1	4.12	135	2528	1707	89.1	97.0	4.97	2.4	27.4	0.60	132.2	221.3	0.509	1.088	1.306	2.57	
CPT-4	19.36	6.2	74.7	4	135	2539	1713	79.0	85.7	5.45	2.5	30.1	0.67	161.2	240.2	0.509	1.369	1.642	3.23	
CPT-4	19.44	6.2	66.7	3.85	135	2550	1718	70.4	76.1	5.88	2.5	32.8	0.74	202.3	272.7	0.509	1.966	2.359	4.63	
CPT-4	19.53	6.2	60.1	3.6	135	2562	1725	63.3	68.2	6.12	2.6	34.8	0.80	248.2	311.6	0.510	2.893	3.471	6.81	
CPT-4	19.61	6.2	57.3	3.31	135	2572	1731	60.3	64.7	5.91	2.6	35.0	0.80	241.4	301.7	0.510	2.633	3.159	6.19	
CPT-4	19.7	6.2	60.3	3.13	135	2585	1737	63.3	67.9	5.30	2.5	32.6	0.74	177.9	241.2	0.511	1.386	1.663	3.25	
CPT-4	19.79	6.2	65.4	3.01	135	2597	1744	68.5	73.5	4.70	2.5	29.8	0.66	134.3	202.8	0.511	0.856	1.027	2.01	
CPT-4	19.87	6.2	70.7	2.86	135	2608	1750	74.0	79.3	4.12	2.4	27.0	0.59	105.8	179.8	0.512	0.620	0.745	1.46	
CPT-4	19.95	6.2	72.8	2.63	135	2618	1755	76.0	81.4	3.68	2.4	25.2	0.54	89.3	165.3	0.512	0.500	0.600	1.17	Low F.S.
CPT-4	20.04	6.2	74.7	2.48	135	2631	1762	77.9	83.3	3.38	2.3	23.9	0.50	79.3	157.2	0.502	0.441	0.529	1.05	Low F.S.
CPT-4	20.12	6.2	76.5	2.43	135	2641	1768	79.6	85.0	3.23	2.3	23.1	0.48	74.6	154.2	0.503	0.421	0.506	1.01	Low F.S.
CPT-4	20.2	6.2	80.6	2.38	135	2652	1774	83.7	89.4	3.00	2.3	21.7	0.45	67.4	151.2	0.503	0.401	0.482	0.96	Liquefaction
CPT-4	20.28	6.2	85	2.25	135	2663	1779	88.2	94.0	2.69	2.2	19.9	0.40	58.4	146.6	0.503	0.373	0.448	0.89	Liquefaction
CPT-4	20.36	6.2	87.2	2.16	135	2674	1785	90.3	96.2	2.52	2.2	19.0	0.37	53.8	144.1	0.504	0.358	0.430	0.85	Liquefaction
CPT-4	20.45	6.2	88.7	2.14	135	2686	1792	91.7	97.5	2.45	2.2	18.6	0.36	52.0	143.7	0.504	0.356	0.427	0.85	Liquefaction
CPT-4	20.53	6.2	91.8	2.1	135	2697	1797	94.7	100.6	2.32	2.2	17.7	0.34	48.6	143.3	0.505	0.354	0.425	0.84	Liquefaction
CPT-4	20.62	6.2	94.5	2.01	135	2709	1804	97.3	103.2	2.16	2.1	16.7	0.31	44.3	141.7	0.505	0.345	0.413	0.82	Liquefaction
CPT-4	20.69	6.2	97.9	1.93	135	2718	1809	100.7	106.7	2.00	2.1	15.7	0.29	40.2	140.9	0.505	0.340	0.408	0.81	Liquefaction
CPT-4	20.78	6.2	98.4	1.85	135	2730	1816	101.0	106.8	1.91	2.1	15.2	0.27	37.9	139.0	0.506	0.330	0.396	0.78	Liquefaction
CPT-4	20.86	6.2	99.8	1.8	135	2741	1821	102.3	108.0	1.83	2.1	14.7	0.26	36.0	138.3	0.506	0.326	0.391	0.77	Liquefaction
CPT-4	20.94	6.2	98.6	1.85	135	2752	1827	100.9	106.4	1.90	2.1	15.2	0.27	38.0	138.9	0.507	0.329	0.395	0.78	Liquefaction
CPT-4	21.02	6.2	96.6	1.99	135	2763	1833	98.7	103.8	2.09	2.1	16.4	0.30	42.9	141.7	0.507	0.344	0.413	0.82	Liquefaction
CPT-4	21.1	6.2	93.6	2.15	135	2774	1839	95.5	100.3	2.33	2.2	17.8	0.34	49.4	144.9	0.507	0.363	0.436	0.86	Liquefaction
CPT-4	21.18	6.2	90.2	2.26	135	2784	1845	91.9	96.2	2.54	2.2	19.1	0.38	55.4	147.3	0.508	0.377	0.453	0.89	Liquefaction
CPT-4	21.27	6.2	83.3	2.37	135	2797	1851	84.7	88.4	2.89	2.3	21.4	0.44	65.9	150.6	0.508	0.398	0.477	0.94	Liquefaction
CPT-4	21.35	6.2	74.9	2.45	135	2807	1857	76.0	79.1	3.33	2.3	24.3	0.52	80.8	156.9	0.508	0.439	0.527	1.04	Low F.S.
CPT-4	21.43	6.2	65.6	2.41	135	2818	1863	66.5	68.9	3.75	2.4	27.5	0.60	99.7	166.2	0.509	0.507	0.608	1.20	Low F.S.
CPT-4	21.51	6.2	53.3	2.23	135	2829	1869	53.9	55.5	4.30	2.5	32.1	0.72	142.1	196.0	0.509	0.781	0.937	1.84	
CPT-4	21.6	6.2	38.2	1.98	135	2841	1875	38.6	39.2	5.38	2.7	40.8	0.80	154.4	193.0	0.510	0.748	0.898	1.76	NonLiqfble.
CPT-4	21.68	6.2	28.3	1.76	135	2852	1881	28.6	28.6	6.55	2.9	49.8	0.80	114.2	142.8	0.510	0.351	0.421	0.82	NonLiqfble.
CPT-4	21.77	6.2	23.3	1.58	135	2864	1887	23.5	23.2	7.23	3.0	55.7	0.80	93.9	117.3	0.510	0.230	0.276	0.54	NonLiqfble.
CPT-4	21.85	6.2	19.5	1.46	135	2875	1893	19.6	19.1	8.08	3.1	62.1	0.80	78.4	98.0	0.511	0.168	0.201	0.39	NonLiqfble.
CPT-4	21.93	6.2	18.1	1.39	135	2886	1899	18.2	17.5	8.35	3.1	64.7	0.80	72.7	90.9	0.511	0.150	0.180	0.35	NonLiqfble.
CPT-4	22	6.2	30	1.34	135	2895	1904	30.1	30.0	4.69	2.7	43.0	0.80	120.3	150.4	0.511	0.396	0.476	0.93	NonLiqfble.
CPT-4	22.08	6.2	24.2	1.26	135	2906	1910	24.2	23.8	5.54	2.9	50.1	0.80	96.9	121.1	0.512	0.245	0.294	0.58	NonLiqfble.
CPT-4	22.16	6.2	20.7	1.19	135	2917	1916	20.7	20.1	6.18	3.0	55.6	0.80	82.8	103.5	0.512	0.183	0.220	0.43	NonLiqfble.
CPT-4	22.25	6.2	19.2	1.16	135	2929	1922	19.2	18.4	6.54	3.0	58.5	0.80	76.6	95.8	0.512	0.162	0.194	0.38	NonLiqfble.
CPT-4	22.34	6.2	19.2	1.16	135	2941	1929	19.1	18.4	6.54	3.0	58.6	0.80	76.5	95.6	0.513	0.161	0.194	0.38	NonLiqfble.
CPT-4	22.42	6.2	23.6	1.14	135	2952	1935	23.5	22.9	5.15	2.9	49.6	0.80	93.9	117.4	0.513	0.230	0.276	0.54	NonLiqfble.
CPT-4	22.5	6.2	30.4	1.17	135	2963	1940	30.2	29.8	4.05	2.7	40.8	0.80	120.8	151.0	0.513	0.400	0.480	0.93	NonLiqfble.
CPT-4	22.58	6.2	37	1.25	135	2973	1946	36.7	36.5	3.52	2.6	35.4	0.80	146.8	183.5	0.514	0.654	0.785	1.53	NonLiqfble.
CPT-4	22.67	6.2	37.7	1.32	135	2986	1953	37.3	37.1	3.65	2.6	35.6	0.80	149.3	186.6	0.514	0.685	0.822	1.60	NonLiqfble.
CPT-4	22.75	6.2	35.6	1.34	135	2996	1959	35.2	34.8	3.93	2.6	37.7	0.80	140.8	176.0	0.515	0.587	0.704	1.37	NonLiqfble.
CPT-4	22.84	6.2	31.8	1.32	135	3009	1965	31.4	30.8	4.36	2.7	41.4	0.80	125.5	156.9	0.515	0.439	0.527	1.02	NonLiqfble.
CPT-4	22.92	6.2	27	1.22	135	3019	1971	26.6	25.9	4.79	2.8	46.0	0.80	106.4	133.0	0.515	0.299	0.359	0.70	NonLiqfble.
CPT-4	23.01	6.2	23.2	1.14	135	3031	1978	22.8	21.9	5.26	2.9	50.8	0.80	91.3	114.1	0.516	0.218	0.262	0.51	NonLiqfble.
CPT-4	23.1	6.2	22.2	1.06	135	3044	1984	21.8	20.8	5.13	2.9	51.4	0.80	87.2	109.0	0.516	0.201	0.241	0.47	NonLiqfble.
CPT-4	23.18	6.2	18.2	0.97	135	3054	1990	17.9	16.8	5.82	3.0	58.3	0.80	71.4	89.3	0.516	0.146	0.175	0.34	NonLiqfble.
CPT-4	23.27	6.2	14	0.85	125	3067	1996	13.7	12.5	6.82	3.1	68.3	0.80	54.8	68.5	0.517	0.110	0.132	0.26	NonLiqfble.
CPT-4	23.35	6.2	14.1	0.88	125	3077	2001	13.8	12.5	7.01	3.1	68.8	0.80	55.2	69.0	0.517	0.110	0.133	0.26	NonLiqfble.
CPT-4	23.44	6.2	15.5	1.16	135	3088	2007	15.1	13.9	8.31	3.2	70.0	0.80	60.6	75.7	0.517	0.120	0.144	0.28	NonLiqfble.
CPT-4	23.53	6.2	19.2	1.36	135	3100	2014	18.7	17.5	7.71	3.1	63.0	0.80	74.9	93.6	0.518	0.156	0.188	0.36	NonLiqfble.
CPT-4	23.61	6.2	39.4	1.39	135	3111	2019	38.4	37.5											

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	μ_c	F.C. (%)	K_{CPT}	$\Delta Q_{(1N)}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-4	24.13	6.2	55.7	2.34	135	3181	2057	53.7	52.6	4.32	2.6	33.0	0.75	158.8	212.5	0.520	0.972	1.167	2.24	
CPT-4	24.21	6.2	41.6	2.19	135	3192	2063	40.1	38.8	5.47	2.7	41.3	0.80	160.3	200.4	0.520	0.828	0.994	1.91	NonLiqfble.
CPT-4	24.3	6.2	28.6	1.88	135	3204	2069	27.5	26.1	6.96	2.9	52.7	0.80	110.0	137.5	0.521	0.322	0.386	0.74	NonLiqfble.
CPT-4	24.39	6.2	21.8	1.49	135	3216	2076	20.9	19.4	7.38	3.0	59.8	0.80	83.7	104.7	0.521	0.187	0.224	0.43	NonLiqfble.
CPT-4	24.47	6.2	17.7	1.12	135	3227	2082	17.0	15.4	6.96	3.1	63.7	0.80	67.9	84.9	0.521	0.137	0.164	0.31	NonLiqfble.
CPT-4	24.56	6.2	14.8	0.92	125	3239	2088	14.2	12.6	6.98	3.1	68.6	0.80	56.7	70.9	0.522	0.113	0.136	0.26	NonLiqfble.
CPT-4	24.65	6.2	12.7	0.83	125	3250	2094	12.1	10.6	7.49	3.2	74.6	0.80	48.6	60.7	0.522	0.101	0.121	0.23	NonLiqfble.
CPT-4	24.73	6.2	11	0.77	125	3260	2099	10.5	8.9	8.22	3.3	81.3	0.80	42.0	52.5	0.522	0.093	0.112	0.21	NonLiqfble.
CPT-4	24.82	6.2	9.8	0.69	125	3272	2105	9.3	7.8	8.45	3.4	85.9	0.80	37.4	46.7	0.523	0.089	0.107	0.21	NonLiqfble.
CPT-4	24.91	6.2	9.3	0.64	125	3283	2110	8.9	7.3	8.36	3.4	87.6	0.80	35.4	44.3	0.523	0.088	0.106	0.20	NonLiqfble.
CPT-4	24.99	6.2	9.2	0.6	125	3293	2115	8.8	7.1	7.94	3.4	86.8	0.80	35.0	43.8	0.524	0.088	0.105	0.20	NonLiqfble.
CPT-4	25.08	6.2	9.1	0.56	125	3304	2121	8.6	7.0	7.52	3.4	86.0	0.80	34.6	43.2	0.524	0.088	0.105	0.20	NonLiqfble.
CPT-4	25.17	6.2	9	0.55	125	3315	2127	8.5	6.9	7.49	3.4	86.4	0.80	34.2	42.7	0.524	0.087	0.105	0.20	NonLiqfble.
CPT-4	25.25	6.2	9.2	0.56	125	3325	2132	8.7	7.1	7.43	3.4	85.5	0.80	34.9	43.6	0.525	0.088	0.105	0.20	NonLiqfble.
CPT-4	25.29	6.2	9.6	0.56	125	3330	2134	9.1	7.4	7.06	3.3	82.9	0.80	36.4	45.5	0.525	0.089	0.106	0.20	NonLiqfble.
CPT-4	25.33	6.2	10.5	0.56	125	3335	2137	9.9	8.3	6.34	3.3	77.5	0.80	39.8	49.7	0.525	0.091	0.110	0.21	NonLiqfble.
CPT-4	25.42	6.2	10.3	0.57	125	3347	2142	9.7	8.1	6.61	3.3	79.1	0.80	38.9	48.7	0.525	0.091	0.109	0.21	NonLiqfble.
CPT-4	25.51	6.2	10.4	0.58	125	3358	2148	9.8	8.1	6.65	3.3	79.1	0.80	39.3	49.1	0.526	0.091	0.109	0.21	NonLiqfble.
CPT-4	25.59	6.2	10.4	0.58	125	3368	2153	9.8	8.1	6.65	3.3	79.1	0.80	39.2	49.0	0.526	0.091	0.109	0.21	NonLiqfble.
CPT-4	25.68	6.2	10	0.59	125	3379	2158	9.4	7.7	7.10	3.3	82.0	0.80	37.7	47.1	0.527	0.090	0.108	0.20	NonLiqfble.
CPT-4	25.77	6.2	9.8	0.59	125	3390	2164	9.2	7.5	7.28	3.3	83.4	0.80	36.9	46.1	0.527	0.089	0.107	0.20	NonLiqfble.
CPT-4	25.85	6.2	10.1	0.58	125	3400	2169	9.5	7.7	6.91	3.3	81.2	0.80	38.0	47.4	0.527	0.090	0.108	0.20	NonLiqfble.
CPT-4	25.94	6.2	9.9	0.56	125	3412	2175	9.3	7.5	6.83	3.3	81.8	0.80	37.2	46.4	0.528	0.089	0.107	0.20	NonLiqfble.
CPT-4	26.03	6.2	9.8	0.55	125	3423	2180	9.2	7.4	6.80	3.3	82.1	0.80	36.7	45.9	0.528	0.089	0.107	0.20	NonLiqfble.
CPT-4	26.12	6.2	9.5	0.53	125	3434	2186	8.9	7.1	6.81	3.3	83.3	0.80	35.6	44.5	0.528	0.088	0.106	0.20	NonLiqfble.
CPT-4	26.2	6.2	9.8	0.53	125	3444	2191	9.2	7.4	6.56	3.3	81.5	0.80	36.6	45.8	0.529	0.089	0.107	0.20	NonLiqfble.
CPT-4	26.29	6.2	9.9	0.53	125	3455	2197	9.2	7.4	6.49	3.3	81.0	0.80	37.0	46.2	0.529	0.089	0.107	0.20	NonLiqfble.
CPT-4	26.38	6.2	10.2	0.53	125	3467	2202	9.5	7.7	6.26	3.3	79.2	0.80	38.0	47.6	0.529	0.090	0.108	0.20	NonLiqfble.
CPT-4	26.47	6.2	10.2	0.54	125	3478	2208	9.5	7.7	6.38	3.3	79.8	0.80	38.0	47.5	0.530	0.090	0.108	0.20	NonLiqfble.
CPT-4	26.56	6.2	10.4	0.55	125	3489	2214	9.7	7.8	6.35	3.3	79.1	0.80	38.7	48.4	0.530	0.091	0.109	0.20	NonLiqfble.
CPT-4	26.65	6.2	10.3	0.56	125	3500	2219	9.6	7.7	6.55	3.3	80.2	0.80	38.3	47.8	0.530	0.090	0.108	0.20	NonLiqfble.
CPT-4	26.73	6.2	11	0.58	125	3510	2224	10.2	8.3	6.27	3.3	77.1	0.80	40.8	51.0	0.531	0.092	0.111	0.21	NonLiqfble.
CPT-4	26.83	6.2	11.4	0.62	125	3523	2230	10.6	8.6	6.43	3.2	76.6	0.80	42.2	52.8	0.531	0.094	0.112	0.21	NonLiqfble.
CPT-4	26.91	6.2	11.5	0.65	125	3533	2235	10.6	8.7	6.68	3.3	77.2	0.80	42.6	53.2	0.532	0.094	0.113	0.21	NonLiqfble.
CPT-4	27	6.2	12	0.68	125	3544	2241	11.1	9.1	6.65	3.2	75.8	0.80	44.4	55.5	0.532	0.096	0.115	0.22	NonLiqfble.
CPT-4	27.09	6.2	11.7	0.7	125	3555	2247	10.8	8.8	7.06	3.3	78.0	0.80	43.2	54.0	0.532	0.095	0.114	0.21	NonLiqfble.
CPT-4	27.18	6.2	11.6	0.72	125	3567	2252	10.7	8.7	7.33	3.3	79.3	0.80	42.8	53.5	0.533	0.094	0.113	0.21	NonLiqfble.
CPT-4	27.27	6.2	11.5	0.72	125	3578	2258	10.6	8.6	7.41	3.3	79.9	0.80	42.4	52.9	0.533	0.094	0.113	0.21	NonLiqfble.
CPT-4	27.36	6.2	11	0.71	125	3589	2264	10.1	8.1	7.71	3.3	82.4	0.80	40.5	50.6	0.533	0.092	0.110	0.21	NonLiqfble.
CPT-4	27.45	6.2	10.8	0.69	125	3600	2269	9.9	7.9	7.67	3.3	83.0	0.80	39.7	49.6	0.534	0.091	0.110	0.21	NonLiqfble.
CPT-4	27.53	6.2	10.4	0.65	125	3610	2274	9.5	7.6	7.56	3.3	84.0	0.80	38.2	47.7	0.534	0.090	0.108	0.20	NonLiqfble.
CPT-4	27.62	6.2	10.3	0.63	125	3622	2280	9.4	7.4	7.42	3.3	84.0	0.80	37.8	47.2	0.534	0.090	0.108	0.20	NonLiqfble.
CPT-4	27.71	6.2	10	0.6	125	3633	2286	9.2	7.2	7.33	3.3	84.9	0.80	36.6	45.8	0.535	0.089	0.107	0.20	NonLiqfble.
CPT-4	27.8	6.2	9.8	0.58	125	3644	2291	9.0	7.0	7.27	3.4	85.5	0.80	35.8	44.8	0.535	0.088	0.106	0.20	NonLiqfble.
CPT-4	27.89	6.2	9.8	0.56	125	3655	2297	8.9	6.9	7.02	3.3	84.8	0.80	35.8	44.7	0.535	0.088	0.106	0.20	NonLiqfble.
CPT-4	27.98	6.2	9.3	0.55	125	3667	2302	8.5	6.5	7.37	3.4	87.9	0.80	33.9	42.4	0.536	0.087	0.105	0.20	NonLiqfble.
CPT-4	28.07	6.2	9.8	0.54	125	3678	2308	8.9	6.9	6.78	3.3	84.2	0.80	35.7	44.6	0.536	0.088	0.106	0.20	NonLiqfble.
CPT-4	28.16	6.2	9.6	0.52	125	3689	2314	8.7	6.7	6.71	3.3	84.7	0.80	34.9	43.7	0.536	0.088	0.105	0.20	NonLiqfble.
CPT-4	28.25	6.2	9.9	0.5	125	3700	2319	9.0	6.9	6.21	3.3	82.0	0.80	36.0	45.0	0.537	0.088	0.106	0.20	NonLiqfble.
CPT-4	28.34	6.2	10	0.51	125	3712	2325	9.1	7.0	6.26	3.3	81.9	0.80	36.3	45.4	0.537	0.089	0.106	0.20	NonLiqfble.
CPT-4	28.42	6.2	9.9	0.51	125	3722	2330	9.0	6.9	6.34	3.3	82.6	0.80	35.9	44.9	0.537	0.088	0.106	0.20	NonLiqfble.
CPT-4	28.51	6.2	10.1	0.51	125	3733	2336	9.1	7.0	6.19	3.3	81.5	0.80	36.6	45.7	0.538	0.089	0.107	0.20	NonLiqfble.
CPT-4	28.56	6.2	11.3	0.51	125	3739	2339	10.2	8.1	5.41	3.2	74.8	0.80	40.9	51.1	0.538	0.092	0.111	0.21	NonLiqfble.
CPT-4	28.65	6.2	10.7	0.51	125	3750	2344	9.7	7.5	5.78	3.3	78.1	0.80	38.7	48.3	0.538	0.091	0.109	0.20	NonLiqfble.
CPT-4	28.74	6.2	10.5	0.51	125	3762	2350	9.5	7.3	5.92	3.3	79.3	0.80	37.9	47.4	0.538	0.090	0.108	0.20	NonLiqfble.
CPT-4	28.83	6.2	10.7	0.51	125	3773	2356	9.6	7.5	5.79	3.3	78.3	0.80	38.6	48.2	0.539	0.090	0.109	0.20	NonLiqfble.
CPT-4	28.92	6.2	10.9	0.52	125	3784	2361	9.8	7.6	5.77	3.3	77.7	0.80	39.3	49.1	0.539	0.091	0.109	0.20	NonLiqfble.
CPT-4	29.01	6.2	11	0.52	125	3795	2367	9.9	7.7	5.71	3.3	77.3	0.80	39.6	49.5	0.539	0.091	0.110	0.20	NonLiqfble.
CPT-4	29.1	6.2	11.3	0.51	125	3807	2373	10.2	7.9	5.43	3.2	75.4	0.80	40.6	50.8	0.540	0.092	0.111	0.20	NonLiqfble.
CPT-4	29.19	6.2	10.6	0.51	125	3818	2378	9.5	7.3	5.87	3.3	79.3	0.80	38.0	47.6	0.540	0.090	0.108	0.20	NonLiqfble.
CPT-4	29.28	6.2	10.4	0.51	125	3829	2384	9.3	7.1	6.01	3.3	80.5	0.80	37.3	46.6	0.540	0.089	0.107	0.20	NonLiqfble.
CPT-4	29.37	6.2	10.2	0.5	125	3840	2389	9.1	6.9	6.04	3.3	81.4	0.80	36.5	45.6	0.541	0.089	0.107		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{ts}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{ts}	$(Q_{ts})_{es}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	29.9	6.2	9.2	0.46	115	3902	2418	8.2	6.0	6.35	3.4	86.8	0.80	32.7	40.9	0.543	0.086	0.104	0.19	NonLiqfble.
CPT-4	29.99	6.2	9.8	0.46	115	3912	2423	8.7	6.5	5.87	3.3	82.8	0.80	34.8	43.6	0.543	0.088	0.105	0.19	NonLiqfble.
CPT-4	30.08	6.2	10.4	0.46	115	3923	2428	9.2	6.9	5.45	3.3	79.1	0.80	36.9	46.2	0.521	0.089	0.107	0.21	NonLiqfble.
CPT-4	30.17	6.2	10.2	0.48	115	3933	2432	9.0	6.8	5.83	3.3	81.3	0.80	36.2	45.2	0.521	0.089	0.106	0.20	NonLiqfble.
CPT-4	30.26	6.2	10.4	0.51	125	3943	2437	9.2	6.9	6.05	3.3	81.5	0.80	36.9	46.1	0.522	0.089	0.107	0.21	NonLiqfble.
CPT-4	30.35	6.2	10.5	0.52	125	3955	2443	9.3	7.0	6.10	3.3	81.4	0.80	37.2	46.5	0.522	0.089	0.107	0.21	NonLiqfble.
CPT-4	30.44	6.2	10.3	0.54	125	3966	2448	9.1	6.8	6.49	3.3	83.6	0.80	36.4	45.5	0.522	0.089	0.107	0.20	NonLiqfble.
CPT-4	30.52	6.2	10.5	0.58	125	3976	2453	9.3	6.9	6.81	3.3	84.1	0.80	37.1	46.4	0.522	0.089	0.107	0.21	NonLiqfble.
CPT-4	30.61	6.2	10.0	0.68	125	3987	2459	8.8	6.5	8.49	3.4	91.2	0.80	35.3	44.1	0.523	0.088	0.106	0.20	NonLiqfble.
CPT-4	30.7	6.2	10	0.85	125	3998	2465	8.8	6.5	10.63	3.5	97.0	0.80	35.3	44.1	0.523	0.088	0.106	0.20	NonLiqfble.
CPT-4	30.79	6.2	14	0.93	125	4010	2470	12.3	9.7	7.75	3.3	77.6	0.80	49.3	61.6	0.523	0.102	0.122	0.23	NonLiqfble.
CPT-4	30.88	6.2	34.7	1	135	4021	2476	30.5	26.4	3.06	2.7	38.7	0.80	122.1	152.6	0.523	0.410	0.492	0.94	NonLiqfble.
CPT-4	30.96	6.2	55.9	1.25	135	4032	2482	49.1	43.4	2.32	2.4	27.4	0.60	72.8	121.9	0.524	0.248	0.298	0.57	Liquefaction
CPT-4	31.05	6.2	62.9	1.6	135	4044	2488	55.2	48.9	2.63	2.4	27.3	0.59	80.8	136.0	0.524	0.314	0.377	0.72	Liquefaction
CPT-4	31.14	6.2	64.8	1.87	135	4056	2495	56.8	50.3	2.98	2.4	28.5	0.63	95.1	151.8	0.524	0.406	0.487	0.93	Liquefaction
CPT-4	31.22	6.2	65.7	1.99	135	4067	2501	57.5	50.9	3.13	2.5	28.9	0.64	101.5	159.0	0.524	0.454	0.545	1.04	Low F.S.
CPT-4	31.31	6.2	64.9	2.05	135	4079	2507	56.7	50.1	3.26	2.5	29.7	0.66	109.6	166.3	0.524	0.508	0.609	1.16	Low F.S.
CPT-4	31.4	6.2	66.5	2.08	135	4091	2514	58.0	51.3	3.23	2.5	29.2	0.65	106.5	164.5	0.525	0.494	0.593	1.13	Low F.S.
CPT-4	31.49	6.2	66.6	2.12	135	4103	2520	58.0	51.2	3.28	2.5	29.5	0.65	109.6	167.7	0.525	0.518	0.622	1.19	Low F.S.
CPT-4	31.57	6.2	69.6	2.02	135	4114	2526	60.6	53.5	2.99	2.4	27.7	0.61	93.2	153.8	0.525	0.418	0.502	0.96	Liquefaction
CPT-4	31.66	6.2	69.7	2.08	135	4126	2533	60.6	53.4	3.08	2.4	28.1	0.62	97.2	157.8	0.525	0.445	0.535	1.02	Low F.S.
CPT-4	31.74	6.2	66.4	2.48	135	4137	2538	57.7	50.7	3.86	2.5	31.8	0.72	145.7	203.4	0.525	0.862	1.035	1.97	
CPT-4	31.83	6.2	63.1	2.83	135	4149	2545	54.7	47.9	4.64	2.6	35.4	0.80	218.9	273.6	0.526	1.986	2.383	4.53	
CPT-4	31.9	6.2	68.7	3.08	135	4159	2550	59.5	52.2	4.62	2.6	34.1	0.78	206.6	266.2	0.526	1.834	2.201	4.19	
CPT-4	31.99	6.2	83.5	3.35	135	4171	2556	72.3	63.7	4.11	2.5	29.7	0.66	140.1	212.4	0.526	0.971	1.165	2.22	
CPT-4	32.07	6.2	96.8	3.56	135	4182	2562	83.7	73.9	3.76	2.4	26.6	0.58	114.5	198.2	0.526	0.804	0.964	1.83	
CPT-4	32.16	6.2	102.4	3.65	135	4194	2569	88.4	78.1	3.64	2.4	25.6	0.55	107.7	196.1	0.526	0.782	0.938	1.78	
CPT-4	32.24	6.2	107.1	3.7	135	4205	2575	92.4	81.5	3.52	2.4	24.7	0.53	102.1	194.4	0.526	0.764	0.916	1.74	
CPT-4	32.33	6.2	120	3.95	135	4217	2581	103.3	91.3	3.35	2.3	22.8	0.48	93.6	196.9	0.527	0.790	0.948	1.80	
CPT-4	32.41	6.2	140.6	4.41	135	4227	2587	121.0	107.0	3.18	2.2	20.6	0.42	86.0	207.0	0.527	0.905	1.086	2.06	
CPT-4	32.49	6.2	155.7	5.07	135	4238	2593	133.8	118.4	3.30	2.2	20.0	0.40	89.6	223.4	0.527	1.116	1.340	2.54	
CPT-4	32.58	6.2	176.3	5.89	135	4250	2599	151.3	134.0	3.38	2.2	19.2	0.38	92.1	243.4	0.527	1.421	1.705	3.24	
CPT-4	32.66	6.2	197.3	6.44	140	4261	2605	169.1	149.8	3.30	2.2	17.9	0.35	89.1	258.2	0.527	1.682	2.018	3.83	
CPT-4	32.74	6.2	213.9	6.74	140	4272	2611	183.1	162.1	3.18	2.1	16.9	0.32	85.0	268.1	0.527	1.873	2.247	4.26	
CPT-4	32.82	6.2	223	7.18	140	4284	2618	190.7	168.7	3.25	2.1	16.8	0.31	87.6	278.3	0.527	2.085	2.501	4.74	
CPT-4	32.9	6.2	231.7	7.6	140	4295	2624	197.9	174.9	3.31	2.1	16.7	0.31	90.0	287.9	0.528	2.299	2.759	5.23	
CPT-4	32.97	6.2	236.7	7.68	140	4305	2629	202.0	178.3	3.27	2.1	16.4	0.31	88.7	290.7	0.528	2.365	2.838	5.38	
CPT-4	33.05	6.2	238.3	7.48	140	4316	2635	203.1	179.1	3.17	2.1	16.0	0.29	84.9	288.0	0.528	2.301	2.761	5.23	
CPT-4	33.13	6.2	238.2	7.09	135	4327	2642	202.8	178.6	3.00	2.1	15.5	0.28	78.9	281.7	0.528	2.159	2.591	4.91	
CPT-4	33.21	6.2	235.9	6.3	135	4338	2647	200.6	176.5	2.70	2.1	14.5	0.25	67.9	268.5	0.528	1.880	2.256	4.27	
CPT-4	33.29	6.2	230.6	5.5	135	4349	2653	195.9	172.1	2.41	2.0	13.6	0.23	58.0	253.8	0.528	1.601	1.921	3.64	
CPT-4	33.37	6.2	225.6	4.76	135	4359	2659	191.4	168.0	2.13	2.0	12.6	0.20	48.7	240.1	0.528	1.367	1.641	3.10	
CPT-4	33.44	6.2	222.5	4.25	135	4369	2664	188.6	165.3	1.93	2.0	11.8	0.18	42.1	230.7	0.529	1.222	1.466	2.77	
CPT-4	33.52	6.2	223.6	4.17	135	4380	2670	189.3	165.8	1.88	1.9	11.6	0.18	40.6	229.9	0.529	1.210	1.452	2.75	
CPT-4	33.59	6.2	223.4	4.19	135	4389	2675	189.0	165.3	1.89	2.0	11.7	0.18	41.0	230.0	0.529	1.211	1.454	2.75	
CPT-4	33.67	6.2	222.5	4.19	135	4400	2681	188.0	164.3	1.90	2.0	11.8	0.18	41.4	229.4	0.529	1.203	1.443	2.73	
CPT-4	33.75	6.2	217.6	4.19	135	4411	2687	183.7	160.3	1.95	2.0	12.1	0.19	43.2	226.9	0.529	1.166	1.399	2.64	
CPT-4	33.86	6.2	211.9	4.21	135	4426	2695	178.6	155.6	2.01	2.0	12.6	0.20	45.7	224.3	0.529	1.129	1.355	2.56	
CPT-4	34.07	6.2	196.8	4.28	135	4454	2710	165.4	143.5	2.20	2.0	14.1	0.24	52.9	218.3	0.530	1.048	1.258	2.37	
CPT-4	34.24	6.2	191.4	4.09	135	4477	2722	160.5	138.9	2.16	2.0	14.2	0.25	52.1	212.6	0.530	0.974	1.169	2.20	
CPT-4	34.34	6.2	192.6	3.9	135	4490	2729	161.3	139.4	2.05	2.0	13.7	0.23	48.4	209.7	0.530	0.938	1.126	2.12	
CPT-4	34.42	6.2	197.1	3.89	135	4501	2735	164.9	142.4	2.00	2.0	13.2	0.22	46.6	211.5	0.530	0.959	1.151	2.17	
CPT-4	34.49	6.2	191.5	4.04	135	4511	2740	160.1	138.1	2.13	2.0	14.1	0.24	51.4	211.5	0.531	0.960	1.152	2.17	
CPT-4	34.56	6.2	190.7	4.18	135	4520	2745	159.2	137.2	2.22	2.1	14.5	0.25	54.3	213.5	0.531	0.985	1.182	2.23	
CPT-4	34.63	6.2	197.9	4.16	135	4530	2750	165.1	142.2	2.13	2.0	13.8	0.24	51.0	216.1	0.531	1.018	1.222	2.30	
CPT-4	34.7	6.2	196.4	3.93	135	4539	2756	163.7	140.8	2.02	2.0	13.5	0.23	47.8	211.5	0.531	0.960	1.152	2.17	
CPT-4	34.77	6.2	202.7	3.24	135	4548	2761	168.8	145.1	1.62	1.9	11.3	0.17	34.2	203.0	0.531	0.858	1.029	1.94	
CPT-4	34.83	6.2	213.8	3.29	135	4557	2765	177.9	152.9	1.56	1.9	10.6	0.15	31.4	209.3	0.531	0.933	1.119	2.11	
CPT-4	34.9	6.2	228.5	3.21	135	4566	2770	190.0	163.3	1.42	1.9	9.5	0.12	25.7	215.7	0.531	1.013	1.216	2.29	
CPT-4	34.94	6.2	236.7	2.95	135	4571	2773	196.7	169.0	1.26	1.8	8.4	0.09	19.6	216.2	0.531	1.020	1.224	2.30	
CPT-4	34.97	6.2	249	2.76	125	4575	2775	206.8	177.7	1.12	1.8	7.3	0.06	13.5	220.3	0.531	1.074	1.289	2.43	
CPT-4	35.01	6.2	266.1	2.73	125	4580	2778	220.9	189.9	1.03	1.7	6.4	0.04	8.7	229.6	0.				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{t15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{crt}	ΔQ_{t15}	Induced Stress Ratio (Q_{t15})	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-4	35.33	6.2	327.6	2.84	125	4619	2796	271.1	232.6	0.87	1.6	4.4	0.00	0.0	271.1	0.532	1.933	2.319	4.36	
CPT-4	35.36	6.2	326.9	3.01	125	4622	2798	270.4	231.9	0.93	1.6	4.7	0.00	0.0	270.4	0.533	1.919	2.303	4.32	
CPT-4	35.39	6.2	325.1	3.1	125	4626	2800	268.8	230.5	0.96	1.6	4.9	0.00	0.0	268.8	0.533	1.887	2.264	4.25	
CPT-4	35.48	6.2	312.1	3.05	125	4637	2805	257.8	220.8	0.98	1.7	5.3	0.01	2.1	259.9	0.533	1.713	2.056	3.86	
CPT-4	35.55	6.2	316.4	3.05	125	4646	2810	261.2	223.5	0.97	1.6	5.2	0.00	1.1	262.3	0.533	1.759	2.110	3.96	
CPT-4	35.63	6.2	303.6	2.74	125	4656	2815	250.4	214.0	0.91	1.6	5.0	0.00	0.2	250.6	0.533	1.543	1.852	3.47	
CPT-4	35.7	6.2	308.6	2.41	125	4665	2819	254.3	217.2	0.79	1.6	4.2	0.00	0.0	254.3	0.533	1.610	1.931	3.62	
CPT-4	35.78	6.2	328.2	2.09	115	4675	2824	270.2	230.7	0.64	1.5	3.0	0.00	0.0	270.2	0.534	1.915	2.298	4.31	
CPT-4	35.85	6.2	340.9	2.26	115	4683	2828	280.5	239.4	0.67	1.5	3.0	0.00	0.0	280.5	0.534	2.132	2.559	4.79	
CPT-4	35.93	6.2	363.3	2.24	115	4692	2832	298.7	254.8	0.62	1.5	2.4	0.00	0.0	298.7	0.534	2.559	3.070	5.75	
CPT-4	36	6.2	369.8	2.41	115	4700	2836	303.8	259.1	0.66	1.5	2.6	0.00	0.0	303.8	0.534	2.689	3.227	6.04	
CPT-4	36.07	6.2	377.2	2.41	115	4708	2839	309.7	263.9	0.64	1.5	2.4	0.00	0.0	309.7	0.534	2.843	3.412	6.38	
CPT-4	36.14	6.2	372	2.61	115	4716	2843	305.3	259.9	0.71	1.5	2.9	0.00	0.0	305.3	0.535	2.725	3.271	6.12	
CPT-4	36.21	6.2	371.1	3.01	125	4724	2847	304.3	259.0	0.82	1.5	3.5	0.00	0.0	304.3	0.535	2.701	3.241	6.06	
CPT-4	36.29	6.2	352.2	3.12	125	4734	2852	288.6	245.2	0.89	1.6	4.2	0.00	0.0	288.6	0.535	2.315	2.778	5.19	
CPT-4	36.36	6.2	346.5	2.95	125	4743	2856	283.7	240.9	0.86	1.6	4.1	0.00	0.0	283.7	0.535	2.203	2.644	4.94	
CPT-4	36.42	6.2	332.4	2.72	125	4751	2860	272.0	230.7	0.82	1.6	4.1	0.00	0.0	272.0	0.535	1.951	2.341	4.37	
CPT-4	36.49	6.2	327.1	2.25	115	4759	2864	267.4	226.6	0.69	1.5	3.4	0.00	0.0	267.4	0.536	1.859	2.230	4.16	
CPT-4	36.56	6.2	327.9	2	115	4767	2868	267.9	226.9	0.61	1.5	2.9	0.00	0.0	267.9	0.536	1.868	2.242	4.18	
CPT-4	36.62	6.2	331.6	1.94	115	4774	2871	270.8	229.2	0.59	1.5	2.7	0.00	0.0	270.8	0.536	1.926	2.312	4.31	
CPT-4	36.68	6.2	332.3	1.87	115	4781	2874	271.2	229.5	0.57	1.5	2.5	0.00	0.0	271.2	0.536	1.935	2.322	4.33	
CPT-4	36.73	6.2	336.3	1.71	115	4787	2877	274.3	232.0	0.51	1.4	2.1	0.00	0.0	274.3	0.536	2.000	2.400	4.48	
CPT-4	36.78	6.2	343.3	1.77	115	4793	2879	279.9	236.7	0.52	1.4	2.0	0.00	0.0	279.9	0.536	2.120	2.544	4.74	
CPT-4	36.82	6.2	344	1.79	115	4797	2882	280.4	237.0	0.52	1.4	2.1	0.00	0.0	280.4	0.537	2.130	2.556	4.76	
CPT-4	36.86	6.2	346.8	1.8	115	4802	2884	282.6	238.8	0.52	1.4	2.0	0.00	0.0	282.6	0.537	2.178	2.614	4.87	
CPT-4	36.89	6.2	352.5	1.86	115	4805	2885	287.1	242.6	0.53	1.4	2.0	0.00	0.0	287.1	0.537	2.282	2.738	5.10	
CPT-4	36.92	6.2	356.9	2	115	4809	2887	290.6	245.5	0.56	1.5	2.2	0.00	0.0	290.6	0.537	2.363	2.836	5.28	
CPT-4	36.98	6.2	361.4	2.24	115	4816	2890	294.1	248.3	0.62	1.5	2.5	0.00	0.0	294.1	0.537	2.447	2.936	5.47	
CPT-4	37.03	6.2	352.5	2.1	115	4821	2893	286.8	242.0	0.60	1.5	2.5	0.00	0.0	286.8	0.537	2.273	2.728	5.08	
CPT-4	37.08	6.2	345.8	2.79	125	4827	2895	281.2	237.1	0.81	1.6	3.9	0.00	0.0	281.2	0.537	2.148	2.577	4.80	
CPT-4	37.13	6.2	332.3	2.91	125	4833	2898	270.1	227.5	0.88	1.6	4.6	0.00	0.0	270.1	0.538	1.912	2.294	4.27	
CPT-4	37.17	6.2	335.2	2.9	125	4838	2901	272.3	229.3	0.87	1.6	4.4	0.00	0.0	272.3	0.538	1.958	2.349	4.37	
CPT-4	37.21	6.2	337.6	2.85	125	4843	2903	274.1	230.8	0.85	1.6	4.3	0.00	0.0	274.1	0.538	1.996	2.395	4.45	
CPT-4	37.27	6.2	338.2	2.93	125	4851	2907	274.4	230.9	0.87	1.6	4.4	0.00	0.0	274.4	0.538	2.002	2.403	4.47	
CPT-4	37.33	6.2	338.3	3.04	125	4858	2911	274.4	230.7	0.91	1.6	4.6	0.00	0.0	274.4	0.538	2.000	2.401	4.46	
CPT-4	37.37	6.2	317.7	3.11	125	4863	2913	257.5	216.3	0.99	1.7	5.4	0.01	2.9	260.5	0.538	1.723	2.068	3.84	
CPT-4	37.41	6.2	320.4	2.97	125	4868	2916	259.6	218.0	0.93	1.6	5.1	0.00	0.5	260.1	0.538	1.717	2.061	3.83	
CPT-4	37.44	6.2	322	2.88	125	4872	2918	260.8	219.0	0.90	1.6	4.9	0.00	0.0	260.8	0.538	1.730	2.076	3.86	
CPT-4	37.47	6.2	327.9	2.83	125	4876	2920	265.5	222.9	0.87	1.6	4.6	0.00	0.0	265.5	0.538	1.821	2.185	4.06	
CPT-4	37.53	6.2	330.7	2.77	125	4883	2923	267.6	224.5	0.84	1.6	4.4	0.00	0.0	267.6	0.538	1.862	2.235	4.15	
CPT-4	37.57	6.2	325.2	2.79	125	4888	2926	263.0	220.5	0.86	1.6	4.6	0.00	0.0	263.0	0.539	1.773	2.127	3.95	
CPT-4	37.62	6.2	320.4	2.69	125	4895	2929	259.0	217.0	0.85	1.6	4.6	0.00	0.0	259.0	0.539	1.696	2.036	3.78	
CPT-4	37.67	6.2	321.5	2.53	125	4901	2932	259.8	217.5	0.79	1.6	4.2	0.00	0.0	259.8	0.539	1.710	2.052	3.81	
CPT-4	37.71	6.2	322.7	2.34	115	4906	2935	260.6	218.2	0.73	1.6	3.8	0.00	0.0	260.6	0.539	1.727	2.072	3.85	
CPT-4	37.8	6.2	325.5	2.42	115	4916	2939	262.7	219.7	0.75	1.6	3.9	0.00	0.0	262.7	0.539	1.766	2.119	3.93	
CPT-4	37.87	6.2	324.8	2.34	115	4924	2943	262.0	219.0	0.73	1.6	3.8	0.00	0.0	262.0	0.539	1.752	2.102	3.90	
CPT-4	37.93	6.2	315.1	2.29	115	4931	2946	254.0	212.1	0.73	1.6	4.0	0.00	0.0	254.0	0.539	1.604	1.925	3.57	
CPT-4	38	6.2	305.6	2.27	115	4939	2950	246.2	205.4	0.75	1.6	4.2	0.00	0.0	246.2	0.540	1.468	1.761	3.26	
CPT-4	38.05	6.2	300.4	1.83	115	4945	2953	241.9	201.7	0.61	1.5	3.4	0.00	0.0	241.9	0.540	1.396	1.675	3.10	
CPT-4	38.11	6.2	290	1.95	115	4952	2956	233.4	194.5	0.68	1.6	4.1	0.00	0.0	233.4	0.540	1.262	1.515	2.81	
CPT-4	38.16	6.2	280.2	2	115	4958	2958	225.4	187.7	0.72	1.6	4.5	0.00	0.0	225.4	0.540	1.145	1.374	2.54	
CPT-4	38.21	6.2	266.1	1.91	115	4963	2961	214.0	178.0	0.72	1.6	4.8	0.00	0.0	214.0	0.540	0.991	1.189	2.20	
CPT-4	38.26	6.2	252	2	125	4969	2964	202.5	168.3	0.80	1.7	5.7	0.02	3.8	206.3	0.540	0.896	1.076	1.99	
CPT-4	38.29	6.2	241.9	2.04	125	4973	2965	194.4	161.4	0.85	1.7	6.3	0.03	6.8	201.1	0.541	0.837	1.004	1.86	
CPT-4	38.35	6.2	245.8	2.07	125	4980	2969	197.4	163.8	0.85	1.7	6.2	0.03	6.3	203.7	0.541	0.866	1.039	1.92	
CPT-4	38.42	6.2	271.9	1.98	115	4989	2974	218.2	181.1	0.73	1.6	4.8	0.00	0.0	218.2	0.541	1.046	1.255	2.32	
CPT-4	38.49	6.2	307.7	2.33	125	4997	2977	246.7	204.9	0.76	1.6	4.4	0.00	0.0	246.7	0.541	1.477	1.772	3.28	
CPT-4	38.56	6.2	339.9	2.87	125	5006	2982	272.4	226.2	0.85	1.6	4.4	0.00	0.0	272.4	0.541	1.959	2.351	4.34	
CPT-4	38.62	6.2	352.7	2.93	125	5013	2985	282.4	234.5	0.84	1.6	4.1	0.00	0.0	282.4	0.541	2.175	2.610	4.82	
CPT-4	38.69	6.2	362.8	3.06	125	5022	2990	290.3	240.9	0.85	1.6	4.1	0.00	0.0	290.3	0.541	2.355	2.827	5.22	
CPT-4	38.74	6.2	364.4	3.12	125	5028	2993	291.4	241.7	0.86	1.6	4.1	0.00	0.0	291.4	0.542	2.382	2.858	5.28	
CPT-4	38.8	6.2	338	3.07	125	5036	2997	270.2	223.8	0.92	1.6	4.8	0.00	0.0	270.2	0.542	1.914	2.296	4.24	
CPT-4	38.84	6.2	349.7	3.02	125	5041	2999	279.4	231.											

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{c15}	$(q_{c15})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	39.03	6.2	366.1	3.08	125	5065	3011	291.9	241.4	0.85	1.6	4.1	0.00	0.0	291.9	0.542	2.393	2.872	5.30	
CPT-4	39.08	6.2	367.3	2.94	125	5071	3014	292.7	241.9	0.81	1.6	3.8	0.00	0.0	292.7	0.542	2.413	2.895	5.34	
CPT-4	39.14	6.2	360.9	3.14	125	5078	3018	287.4	237.4	0.88	1.6	4.3	0.00	0.0	287.4	0.542	2.289	2.746	5.06	
CPT-4	39.18	6.2	353.3	3.48	125	5083	3021	281.3	232.2	0.99	1.6	5.1	0.00	0.7	281.9	0.542	2.164	2.597	4.79	
CPT-4	39.22	6.2	352.7	3.91	125	5088	3023	280.7	231.6	1.12	1.7	5.8	0.02	6.0	286.7	0.543	2.271	2.725	5.02	
CPT-4	39.27	6.2	333.6	4.56	135	5095	3026	265.3	218.7	1.38	1.8	7.4	0.07	18.5	283.9	0.543	2.207	2.648	4.88	
CPT-4	39.33	6.2	317.7	5.27	135	5103	3030	252.5	207.9	1.67	1.8	9.1	0.11	31.5	284.0	0.543	2.210	2.651	4.89	
CPT-4	39.4	6.2	289.7	4.72	135	5112	3036	230.1	189.1	1.64	1.9	9.6	0.12	32.3	262.4	0.543	1.760	2.112	3.89	
CPT-4	39.47	6.2	250.8	4.86	135	5122	3041	199.0	163.2	1.96	2.0	12.1	0.19	46.2	245.2	0.543	1.451	1.741	3.21	
CPT-4	39.54	6.2	208.2	4.34	135	5131	3046	165.1	135.0	2.11	2.0	14.2	0.25	53.6	218.7	0.543	1.053	1.263	2.33	
CPT-4	39.61	6.2	188.8	3.88	135	5141	3051	149.6	122.0	2.08	2.1	14.9	0.26	53.7	203.3	0.543	0.861	1.033	1.90	
CPT-4	39.69	6.2	172.1	3.12	135	5151	3057	136.2	110.9	1.84	2.1	14.6	0.26	46.8	183.0	0.543	0.650	0.780	1.44	
CPT-4	39.76	6.2	191.7	2.65	135	5161	3062	151.6	123.5	1.40	1.9	11.4	0.17	31.3	182.8	0.543	0.649	0.778	1.43	
CPT-4	39.83	6.2	213.2	2.09	125	5170	3067	168.4	137.3	0.99	1.8	8.2	0.09	15.8	184.3	0.543	0.662	0.794	1.46	
CPT-4	39.9	6.2	221.3	1.6	115	5179	3071	174.7	142.4	0.73	1.7	6.2	0.03	5.9	180.6	0.544	0.628	0.754	1.39	
CPT-4	39.98	6.2	217.8	1.39	115	5188	3075	171.8	139.9	0.65	1.7	5.7	0.02	3.3	175.1	0.544	0.580	0.696	1.28	
CPT-4	40.04	6.2	211.7	1.5	115	5195	3079	166.9	135.8	0.72	1.7	6.4	0.04	6.6	173.5	0.503	0.566	0.679	1.35	
CPT-4	40.12	6.2	210.5	1.53	115	5204	3083	165.9	134.8	0.74	1.7	6.6	0.04	7.4	173.3	0.503	0.564	0.677	1.35	
CPT-4	40.19	6.2	208.4	1.57	115	5212	3086	164.1	133.3	0.76	1.7	6.9	0.05	8.6	172.8	0.503	0.560	0.672	1.34	
CPT-4	40.27	6.2	208.9	1.6	115	5222	3091	164.4	133.4	0.78	1.7	7.0	0.05	9.1	173.5	0.503	0.565	0.679	1.35	
CPT-4	40.34	6.2	213.8	2.23	125	5230	3094	168.2	136.4	1.06	1.8	8.7	0.10	18.2	186.3	0.503	0.682	0.818	1.63	
CPT-4	40.41	6.2	226.3	2.75	135	5238	3099	177.9	144.3	1.23	1.9	9.3	0.11	23.0	200.9	0.503	0.834	1.001	1.99	
CPT-4	40.48	6.2	227.1	2.77	135	5248	3104	178.4	144.6	1.23	1.9	9.3	0.11	23.1	201.5	0.504	0.841	1.009	2.00	
CPT-4	40.55	6.2	223.4	3.4	135	5257	3109	175.3	142.0	1.54	1.9	11.1	0.16	34.0	209.3	0.504	0.933	1.119	2.22	
CPT-4	40.61	6.2	213.1	3.34	135	5265	3113	167.1	135.2	1.59	2.0	11.7	0.18	36.4	203.5	0.504	0.863	1.036	2.06	
CPT-4	40.68	6.2	213.9	3.24	135	5275	3118	167.6	135.4	1.53	1.9	11.4	0.17	34.6	202.2	0.504	0.848	1.018	2.02	
CPT-4	40.75	6.2	217.7	2.76	135	5284	3123	170.4	137.6	1.28	1.9	9.9	0.13	25.8	196.3	0.504	0.783	0.940	1.87	
CPT-4	40.83	6.2	210.9	1.77	125	5295	3129	165.0	133.0	0.85	1.8	7.5	0.07	11.8	176.7	0.504	0.593	0.712	1.41	
CPT-4	40.89	6.2	217.8	1.6	115	5303	3133	170.3	137.3	0.74	1.7	6.5	0.04	7.3	177.6	0.504	0.601	0.721	1.43	
CPT-4	40.97	6.2	219.6	1.41	115	5312	3137	171.5	138.2	0.65	1.7	5.8	0.02	3.8	175.3	0.504	0.581	0.698	1.38	
CPT-4	41.04	6.2	222	1.17	115	5320	3141	173.3	139.6	0.53	1.6	4.8	0.00	0.0	173.3	0.504	0.564	0.677	1.34	
CPT-4	41.11	6.2	230.1	1.5	115	5328	3145	179.5	144.6	0.66	1.7	5.6	0.02	2.9	182.5	0.505	0.645	0.774	1.53	
CPT-4	41.19	6.2	234.2	1.48	115	5337	3149	182.6	147.0	0.64	1.7	5.4	0.01	1.7	184.3	0.505	0.663	0.795	1.58	
CPT-4	41.26	6.2	247.2	1.46	115	5345	3152	192.6	155.1	0.60	1.6	4.7	0.00	0.0	192.6	0.505	0.745	0.894	1.77	
CPT-4	41.34	6.2	257.5	1.65	115	5354	3157	200.5	161.4	0.65	1.6	4.9	0.00	0.0	200.5	0.505	0.830	0.996	1.97	
CPT-4	41.41	6.2	251.3	1.6	115	5362	3160	195.6	157.3	0.64	1.6	5.0	0.00	0.0	195.6	0.505	0.776	0.931	1.84	
CPT-4	41.48	6.2	259.3	1.28	105	5370	3164	201.7	162.1	0.50	1.6	3.7	0.00	0.0	201.7	0.505	0.843	1.012	2.00	
CPT-4	41.56	6.2	268	1.32	105	5379	3167	208.4	167.5	0.50	1.5	3.5	0.00	0.0	208.4	0.506	0.921	1.105	2.19	
CPT-4	41.63	6.2	272.7	1.54	115	5386	3170	211.9	170.3	0.57	1.6	4.0	0.00	0.0	211.9	0.506	0.965	1.158	2.29	
CPT-4	41.71	6.2	276.9	1.47	115	5395	3175	215.0	172.7	0.54	1.6	3.7	0.00	0.0	215.0	0.506	1.005	1.206	2.38	
CPT-4	41.74	6.2	234.8	1.4	115	5399	3176	182.3	146.1	0.60	1.6	5.1	0.00	0.6	182.9	0.506	0.649	0.778	1.54	
CPT-4	41.82	6.2	266.2	1.31	105	5408	3180	206.5	165.6	0.50	1.6	3.6	0.00	0.0	206.5	0.506	0.899	1.079	2.13	
CPT-4	41.9	6.2	247.7	1.38	115	5416	3184	192.1	153.8	0.56	1.6	4.5	0.00	0.0	192.1	0.507	0.739	0.887	1.75	
CPT-4	41.98	6.2	228.2	1.39	115	5426	3188	176.8	141.4	0.62	1.7	5.4	0.01	2.0	178.8	0.507	0.612	0.734	1.45	
CPT-4	42.05	6.2	211.7	1.35	115	5434	3192	164.0	130.9	0.65	1.7	6.1	0.03	5.1	169.1	0.507	0.529	0.635	1.25	
CPT-4	42.13	6.2	199.8	1.13	115	5443	3196	154.6	123.3	0.57	1.7	5.9	0.03	4.0	158.7	0.507	0.451	0.542	1.07	Low F.S.
CPT-4	42.21	6.2	188.5	0.97	105	5452	3200	145.8	116.1	0.52	1.7	5.9	0.02	3.7	149.5	0.507	0.391	0.469	0.92	Liquefaction
CPT-4	42.29	6.2	180.4	0.92	105	5461	3203	139.5	110.9	0.52	1.7	6.2	0.03	4.6	144.0	0.508	0.358	0.430	0.85	Liquefaction
CPT-4	42.37	6.2	176.8	0.77	105	5469	3207	136.6	108.5	0.44	1.7	5.7	0.02	2.5	139.1	0.508	0.330	0.396	0.78	Liquefaction
CPT-4	42.45	6.2	176.7	0.75	105	5477	3210	136.5	108.3	0.43	1.7	5.6	0.02	2.1	138.6	0.508	0.327	0.393	0.77	Liquefaction
CPT-4	42.53	6.2	178.4	0.73	105	5486	3214	137.7	109.3	0.42	1.7	5.4	0.01	1.4	139.1	0.508	0.330	0.396	0.78	Liquefaction
CPT-4	42.61	6.2	172.8	0.82	105	5494	3217	133.3	105.7	0.48	1.7	6.2	0.03	4.5	137.8	0.509	0.323	0.388	0.76	Liquefaction
CPT-4	42.69	6.2	178	1.05	115	5503	3221	137.2	108.8	0.60	1.7	7.0	0.05	7.8	145.0	0.509	0.364	0.437	0.86	Liquefaction
CPT-4	42.77	6.2	182.2	0.96	115	5512	3225	140.4	111.2	0.53	1.7	6.3	0.04	5.1	145.5	0.509	0.367	0.440	0.86	Liquefaction
CPT-4	42.85	6.2	178.6	1.12	115	5521	3229	137.5	108.9	0.64	1.8	7.3	0.06	9.1	146.6	0.509	0.373	0.448	0.88	Liquefaction
CPT-4	42.93	6.2	184.5	1.61	125	5530	3233	142.0	112.4	0.89	1.8	8.9	0.11	16.7	158.7	0.509	0.452	0.542	1.06	Low F.S.
CPT-4	43	6.2	209.7	1.57	115	5539	3238	161.3	127.8	0.76	1.8	7.1	0.06	9.7	171.0	0.509	0.545	0.654	1.28	
CPT-4	43.08	6.2	229.3	1.5	115	5548	3242	176.2	139.7	0.66	1.7	5.8	0.02	4.0	180.2	0.510	0.624	0.749	1.47	
CPT-4	43.16	6.2	243.8	2.1	125	5557	3246	187.2	148.4	0.87	1.7	6.9	0.05	10.1	197.3	0.510	0.794	0.953	1.87	
CPT-4	43.24	6.2	265.2	2.28	125	5567	3251	203.5	161.4	0.87	1.7	6.4	0.04	7.7	211.3	0.510	0.957	1.148	2.25	
CPT-4	43.31	6.2	296.2	2.45	125	5576	3255	227.1	180.2	0.84	1.7	5.5	0.01	3.1	230.3	0.510	1.215	1.458	2.86	
CPT-4	43.39	6.2	312.3	2.46	125	5586	3260	239.3	189.8	0.79	1.6	5.0	0.00	0.0	239.3	0.510	1.355	1.625	3.19	
CPT-4	43.46																			

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{cPT}	ΔQ_{c15}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	43.84	6.2	311.3	1.9	115	5641	3287	237.6	187.6	0.62	1.6	3.8	0.00	0.0	237.6	0.511	1.327	1.592	3.12	
CPT-4	43.91	6.2	316.8	2.01	115	5649	3291	241.6	190.7	0.64	1.6	3.9	0.00	0.0	241.6	0.511	1.392	1.670	3.27	
CPT-4	43.99	6.2	316.6	1.89	115	5658	3295	241.3	190.4	0.60	1.6	3.6	0.00	0.0	241.3	0.511	1.387	1.664	3.25	
CPT-4	44.06	6.2	303.9	1.91	115	5666	3299	231.5	182.5	0.63	1.6	4.1	0.00	0.0	231.5	0.512	1.234	1.481	2.89	
CPT-4	44.14	6.2	301.3	1.86	115	5675	3303	229.4	180.7	0.62	1.6	4.1	0.00	0.0	229.4	0.512	1.203	1.443	2.82	
CPT-4	44.22	6.2	307.8	1.53	105	5684	3307	234.2	184.4	0.50	1.5	3.1	0.00	0.0	234.2	0.512	1.274	1.529	2.99	
CPT-4	44.29	6.2	327.4	1.75	115	5692	3310	249.0	196.0	0.54	1.5	3.0	0.00	0.0	249.0	0.512	1.516	1.819	3.55	
CPT-4	44.37	6.2	318.5	2	115	5701	3314	242.1	190.4	0.63	1.6	3.9	0.00	0.0	242.1	0.512	1.399	1.679	3.28	
CPT-4	44.45	6.2	317.9	2.01	115	5710	3318	241.5	189.8	0.64	1.6	3.9	0.00	0.0	241.5	0.512	1.389	1.667	3.25	
CPT-4	44.52	6.2	311.5	1.96	115	5718	3322	236.5	185.7	0.64	1.6	4.0	0.00	0.0	236.5	0.513	1.310	1.572	3.07	
CPT-4	44.6	6.2	301.3	1.76	115	5727	3326	228.6	179.4	0.59	1.6	3.9	0.00	0.0	228.6	0.513	1.191	1.429	2.79	
CPT-4	44.67	6.2	287.8	1.57	115	5736	3330	218.2	171.1	0.55	1.6	3.8	0.00	0.0	218.2	0.513	1.046	1.256	2.45	
CPT-4	44.75	6.2	280	1.39	105	5745	3334	212.2	166.2	0.50	1.6	3.6	0.00	0.0	212.2	0.513	0.968	1.162	2.26	
CPT-4	44.82	6.2	262.9	1.16	105	5752	3337	199.1	155.8	0.45	1.5	3.5	0.00	0.0	199.1	0.513	0.814	0.977	1.90	
CPT-4	44.91	6.2	233	0.9	105	5762	3341	176.4	137.7	0.39	1.6	3.7	0.00	0.0	176.4	0.514	0.590	0.708	1.38	
CPT-4	44.98	6.2	199.4	0.89	105	5769	3344	150.9	117.5	0.45	1.7	5.2	0.01	1.0	151.8	0.514	0.405	0.487	0.95	Liquefaction
CPT-4	45.05	6.2	163.3	0.96	115	5776	3347	123.5	95.8	0.60	1.8	7.9	0.08	10.5	134.0	0.514	0.304	0.365	0.71	Liquefaction
CPT-4	45.13	6.2	142.7	0.85	115	5785	3351	107.9	83.4	0.61	1.8	9.1	0.11	13.4	121.2	0.514	0.246	0.295	0.57	Liquefaction
CPT-4	45.17	6.2	117.9	0.85	115	5790	3353	89.1	68.6	0.74	2.0	12.0	0.19	20.4	109.5	0.514	0.202	0.242	0.47	Liquefaction
CPT-4	45.27	6.2	118.7	0.85	115	5802	3359	89.6	68.9	0.73	2.0	11.9	0.18	20.2	109.8	0.514	0.203	0.244	0.47	Liquefaction
CPT-4	45.35	6.2	101.2	1.03	125	5811	3363	76.4	58.4	1.05	2.1	16.0	0.29	31.8	108.2	0.515	0.198	0.237	0.46	Liquefaction
CPT-4	45.43	6.2	90.5	1.38	135	5821	3368	68.2	52.0	1.58	2.3	20.9	0.42	50.3	118.5	0.515	0.235	0.282	0.55	Liquefaction
CPT-4	45.51	6.2	75.3	1.45	135	5832	3374	56.7	42.9	2.00	2.4	25.8	0.56	71.2	127.9	0.515	0.274	0.329	0.64	Liquefaction
CPT-4	45.59	6.2	63.8	1.66	135	5842	3379	48.0	36.0	2.73	2.5	32.1	0.72	125.0	173.0	0.515	0.562	0.674	1.31	
CPT-4	45.67	6.2	53.4	1.86	135	5853	3385	40.2	29.8	3.69	2.7	39.3	0.80	160.6	200.8	0.515	0.833	0.999	1.94	NonLiqble.
CPT-4	45.75	6.2	45.3	1.79	135	5864	3391	34.0	25.0	4.23	2.8	44.6	0.80	136.1	170.2	0.515	0.538	0.646	1.25	NonLiqble.
CPT-4	45.83	6.2	38.3	1.85	135	5875	3397	28.8	20.8	5.23	2.9	51.8	0.80	115.0	143.8	0.515	0.356	0.428	0.83	NonLiqble.
CPT-4	45.9	6.2	80.9	1.63	135	5884	3402	60.7	45.8	2.09	2.4	25.4	0.55	72.9	133.6	0.515	0.302	0.362	0.70	Liquefaction
CPT-4	45.98	6.2	143.3	1.53	125	5895	3408	107.4	82.3	1.09	2.0	12.9	0.21	28.9	136.3	0.515	0.315	0.378	0.73	Liquefaction
CPT-4	46.06	6.2	191.8	1.24	115	5905	3413	143.7	110.6	0.66	1.8	7.4	0.06	9.7	153.3	0.515	0.415	0.498	0.97	Liquefaction
CPT-4	46.14	6.2	206.8	0.95	105	5914	3417	154.8	119.3	0.47	1.7	5.3	0.01	1.1	155.9	0.515	0.432	0.519	1.01	Low F.S.
CPT-4	46.21	6.2	218.3	1.26	115	5922	3420	163.3	125.9	0.59	1.7	5.9	0.02	4.1	167.4	0.516	0.516	0.619	1.20	
CPT-4	46.29	6.2	193.2	1.11	115	5931	3424	144.5	111.1	0.58	1.7	6.7	0.05	7.0	151.5	0.516	0.403	0.484	0.94	Liquefaction
CPT-4	46.37	6.2	194.6	1.15	115	5940	3428	145.4	111.7	0.60	1.7	6.8	0.05	7.5	152.9	0.516	0.412	0.495	0.96	Liquefaction
CPT-4	46.45	6.2	186.4	1.18	115	5949	3433	139.2	106.8	0.64	1.8	7.5	0.07	10.0	149.2	0.516	0.389	0.467	0.90	Liquefaction
CPT-4	46.53	6.2	162.8	1.04	115	5958	3437	121.5	93.0	0.65	1.8	8.6	0.10	13.0	134.5	0.516	0.306	0.368	0.71	Liquefaction
CPT-4	46.61	6.2	141.8	1.01	115	5968	3441	105.8	80.7	0.73	1.9	10.4	0.14	17.9	123.7	0.516	0.256	0.307	0.59	Liquefaction
CPT-4	46.69	6.2	121.8	0.93	115	5977	3445	90.8	68.9	0.78	2.0	12.3	0.19	21.9	112.7	0.517	0.213	0.256	0.50	Liquefaction
CPT-4	46.78	6.2	108.3	0.81	115	5987	3450	80.7	61.0	0.77	2.0	13.4	0.22	23.2	103.9	0.517	0.184	0.221	0.43	Liquefaction
CPT-4	46.86	6.2	95.2	0.66	115	5996	3454	70.9	53.4	0.72	2.0	14.3	0.25	23.3	94.2	0.517	0.158	0.189	0.37	Liquefaction
CPT-4	46.94	6.2	81.4	0.49	105	6005	3458	60.6	45.3	0.63	2.1	15.2	0.27	22.6	83.2	0.517	0.133	0.160	0.31	Liquefaction
CPT-4	47.03	6.2	70.3	0.45	105	6015	3462	52.3	38.9	0.67	2.2	17.4	0.33	25.9	78.2	0.517	0.124	0.149	0.29	Liquefaction
CPT-4	47.12	6.2	60.3	0.43	115	6024	3466	44.8	33.0	0.75	2.2	20.3	0.41	30.9	75.7	0.518	0.120	0.144	0.28	Liquefaction
CPT-4	47.2	6.2	53.4	0.43	115	6034	3470	39.7	29.0	0.85	2.3	23.0	0.48	36.9	76.5	0.518	0.122	0.146	0.28	Liquefaction
CPT-4	47.29	6.2	47.5	0.46	115	6044	3475	35.3	25.6	1.03	2.4	26.5	0.58	47.8	83.0	0.518	0.133	0.160	0.31	Liquefaction
CPT-4	47.37	6.2	44.6	0.51	125	6053	3479	33.1	23.9	1.23	2.5	29.3	0.65	60.8	93.9	0.518	0.157	0.188	0.36	Liquefaction
CPT-4	47.46	6.2	41.6	0.53	125	6064	3485	30.8	22.1	1.37	2.5	31.7	0.71	76.3	107.2	0.518	0.194	0.233	0.45	Liquefaction
CPT-4	47.54	6.2	39.4	0.54	125	6074	3490	29.2	20.8	1.49	2.6	33.5	0.76	93.5	122.7	0.518	0.252	0.302	0.58	Liquefaction
CPT-4	47.63	6.2	35.4	0.61	125	6086	3495	26.2	18.5	1.89	2.7	38.5	0.80	104.8	131.0	0.518	0.289	0.347	0.67	NonLiqble.
CPT-4	47.71	6.2	30.2	0.82	135	6096	3500	22.3	15.5	3.02	2.8	48.6	0.80	89.3	111.7	0.519	0.210	0.251	0.48	NonLiqble.
CPT-4	47.8	6.2	24.2	1.05	135	6108	3507	17.9	12.1	4.97	3.1	62.8	0.80	71.5	89.4	0.519	0.146	0.176	0.34	NonLiqble.
CPT-4	47.89	6.2	21.2	1.19	135	6120	3513	15.6	10.3	6.56	3.2	72.3	0.80	62.6	78.2	0.519	0.125	0.149	0.29	NonLiqble.
CPT-4	47.97	6.2	19.1	1.4	135	6131	3519	14.1	9.1	8.73	3.3	82.1	0.80	56.3	70.4	0.519	0.112	0.135	0.26	NonLiqble.
CPT-4	48.05	6.2	43.9	1.36	135	6142	3525	32.4	23.2	3.33	2.7	42.2	0.80	129.4	161.8	0.519	0.474	0.568	1.10	NonLiqble.
CPT-4	48.14	6.2	70	1.26	135	6154	3532	51.5	37.9	1.88	2.4	26.9	0.58	72.2	123.8	0.519	0.256	0.308	0.59	Liquefaction
CPT-4	48.22	6.2	79.3	1.24	135	6164	3537	58.3	43.1	1.63	2.3	23.6	0.50	57.4	115.7	0.519	0.224	0.269	0.52	Liquefaction
CPT-4	48.31	6.2	90.4	1.07	125	6177	3544	66.4	49.3	1.23	2.2	19.2	0.38	40.7	107.2	0.519	0.194	0.233	0.45	Liquefaction
CPT-4	48.39	6.2	97.3	0.88	125	6187	3549	71.5	53.1	0.93	2.1	16.2	0.30	30.4	101.9	0.519	0.178	0.214	0.41	Liquefaction
CPT-4	48.47	6.2	105.6	0.82	115	6197	3554	77.5	57.7	0.80	2.0	14.2	0.25	25.2	102.7	0.519	0.181	0.217	0.42	Liquefaction
CPT-4	48.56	6.2	114.7	0.79	115	6207	3559	84.1	62.7	0.71	2.0	12.6	0.20	21.3	105.4	0.519	0.189	0.227	0.44	Liquefaction
CPT-4	48.61	6.2	111.6	0.79	115	6213	3561	81.8	60.9	0.73	2.0	13.0	0.21	22.3	104.1	0.520	0.185	0.222	0.43	Liquefaction
CPT-4	48.69	6.2	121.9	0.79	115	6222	3566	89.3	66.6	0.67	1.9	11.6	0.18	19.1	108.5	0.				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{c1N}	$(q_{c1N})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	49.2	6.2	159.2	0.89	115	6281	3592	116.2	86.8	0.57	1.8	8.5	0.09	11.8	128.1	0.521	0.275	0.330	0.63	Liquefaction
CPT-4	49.29	6.2	167.7	0.85	105	6291	3597	122.3	91.5	0.52	1.8	7.6	0.07	9.0	131.4	0.521	0.291	0.349	0.67	Liquefaction
CPT-4	49.37	6.2	174.1	0.85	105	6299	3600	127.0	94.9	0.50	1.8	7.1	0.06	7.6	134.6	0.521	0.307	0.368	0.71	Liquefaction
CPT-4	49.46	6.2	175.1	0.91	105	6309	3604	127.6	95.4	0.53	1.8	7.4	0.06	8.6	136.2	0.521	0.315	0.378	0.73	Liquefaction
CPT-4	49.55	6.2	174.7	0.93	115	6318	3608	127.3	95.0	0.54	1.8	7.5	0.07	9.2	136.4	0.521	0.316	0.379	0.73	Liquefaction
CPT-4	49.63	6.2	172.9	0.92	105	6327	3612	125.9	93.9	0.54	1.8	7.6	0.07	9.4	135.3	0.522	0.310	0.372	0.71	Liquefaction
CPT-4	49.71	6.2	172.4	0.98	115	6336	3616	125.4	93.6	0.58	1.8	8.0	0.08	10.8	136.2	0.522	0.315	0.378	0.72	Liquefaction
CPT-4	49.8	6.2	162.8	1.02	115	6346	3621	118.4	88.1	0.64	1.8	8.9	0.11	13.9	132.3	0.522	0.295	0.354	0.68	Liquefaction
CPT-4	49.89	6.2	157.1	0.92	115	6357	3625	114.2	84.9	0.60	1.8	8.9	0.10	13.2	127.4	0.522	0.272	0.327	0.63	Liquefaction
CPT-4	49.97	6.2	151.6	0.88	115	6366	3629	110.1	81.7	0.59	1.8	9.2	0.11	13.7	123.8	0.522	0.257	0.308	0.59	Liquefaction
CPT-4	50.06	6.2	139.7	0.87	115	6376	3634	101.4	75.1	0.64	1.9	10.3	0.14	16.6	118.0	0.461	0.233	0.279	0.61	Liquefaction
CPT-4	50.14	6.2	131.7	0.87	115	6385	3638	95.5	70.6	0.68	1.9	11.2	0.16	18.9	114.4	0.461	0.219	0.263	0.57	Liquefaction
CPT-4	50.22	6.2	125.8	0.95	115	6394	3643	91.2	67.3	0.77	2.0	12.5	0.20	22.7	113.9	0.461	0.217	0.261	0.57	Liquefaction
CPT-4	50.31	6.2	125	1.23	125	6405	3647	90.6	66.8	1.01	2.1	14.4	0.25	30.2	120.8	0.461	0.244	0.293	0.63	Liquefaction
CPT-4	50.39	6.2	129.3	1.53	125	6415	3652	93.6	69.0	1.21	2.1	15.5	0.28	36.3	129.9	0.462	0.284	0.340	0.74	Liquefaction
CPT-4	50.48	6.2	145.6	1.59	125	6426	3658	105.3	77.8	1.12	2.0	13.6	0.23	31.6	136.9	0.462	0.319	0.382	0.83	Liquefaction
CPT-4	50.56	6.2	168.6	1.63	125	6436	3663	121.9	90.3	0.99	1.9	11.4	0.17	25.1	147.0	0.462	0.375	0.451	0.98	Liquefaction
CPT-4	50.64	6.2	200.5	1.64	125	6446	3668	144.8	107.5	0.83	1.8	8.9	0.10	16.8	161.6	0.462	0.473	0.567	1.23	
CPT-4	50.71	6.2	231.6	1.75	115	6455	3672	167.2	124.3	0.77	1.8	7.4	0.06	11.3	178.5	0.462	0.609	0.731	1.58	
CPT-4	50.79	6.2	256.8	2.07	125	6464	3677	185.3	137.9	0.82	1.7	7.0	0.05	10.6	195.9	0.462	0.779	0.935	2.02	
CPT-4	50.87	6.2	274.2	2.33	125	6474	3682	197.7	147.1	0.86	1.7	6.9	0.05	10.5	208.3	0.462	0.920	1.104	2.39	
CPT-4	50.95	6.2	279.7	2.5	125	6484	3687	201.6	149.9	0.90	1.7	7.1	0.06	11.8	213.3	0.462	0.983	1.179	2.55	
CPT-4	51.03	6.2	286.7	2.66	125	6494	3692	206.5	153.5	0.94	1.8	7.1	0.06	12.5	218.9	0.462	1.056	1.267	2.74	
CPT-4	51.11	6.2	279.2	2.65	125	6504	3697	200.9	149.2	0.96	1.8	7.5	0.07	14.1	215.0	0.462	1.004	1.205	2.61	
CPT-4	51.19	6.2	284	2.6	125	6514	3702	204.2	151.6	0.93	1.8	7.1	0.06	12.3	216.6	0.462	1.025	1.230	2.66	
CPT-4	51.26	6.2	288.9	2.43	125	6523	3706	207.6	154.1	0.85	1.7	6.5	0.04	8.9	216.6	0.462	1.024	1.229	2.66	
CFT-4	51.34	6.2	300.1	2.34	125	6533	3711	215.5	159.9	0.79	1.7	5.9	0.02	5.3	220.8	0.463	1.082	1.298	2.81	
CPT-4	51.42	6.2	299.3	2.32	125	6543	3716	214.8	159.3	0.78	1.7	5.9	0.02	5.2	220.1	0.463	1.071	1.285	2.78	
CPT-4	51.5	6.2	306.3	2.35	125	6553	3721	219.7	162.8	0.78	1.7	5.7	0.02	4.2	223.9	0.463	1.124	1.349	2.92	
CPT-4	51.58	6.2	307.4	2.12	115	6563	3726	220.3	163.2	0.70	1.6	5.2	0.00	0.9	221.2	0.463	1.087	1.304	2.82	
CPT-4	51.66	6.2	293.7	1.99	115	6572	3730	210.4	155.6	0.69	1.7	5.3	0.01	2.0	212.4	0.463	0.971	1.165	2.52	
CPT-4	51.74	6.2	290.7	2.2	115	6581	3734	208.1	153.9	0.77	1.7	6.0	0.03	5.6	213.7	0.463	0.988	1.185	2.56	
CPT-4	51.81	6.2	285.6	2.19	125	6589	3738	204.4	151.0	0.78	1.7	6.2	0.03	6.6	210.9	0.463	0.953	1.143	2.47	
CPT-4	51.86	6.2	258.8	2.14	125	6595	3741	185.1	136.5	0.84	1.8	7.2	0.06	11.7	196.9	0.463	0.790	0.948	2.05	
CPT-4	51.91	6.2	262.3	2.13	125	6602	3744	187.6	136.3	0.82	1.7	7.0	0.05	10.8	198.4	0.463	0.806	0.967	2.09	
CPT-4	51.98	6.2	260.8	2.17	125	6610	3749	186.4	137.3	0.84	1.8	7.2	0.06	11.8	198.2	0.463	0.804	0.965	2.08	
CPT-4	52.06	6.2	253.9	2.36	125	6620	3754	181.3	133.5	0.94	1.8	8.1	0.08	16.3	197.6	0.463	0.797	0.957	2.06	
CPT-4	52.14	6.2	248.3	2.49	125	6630	3759	177.2	130.3	1.02	1.8	8.7	0.10	19.6	196.8	0.464	0.789	0.947	2.04	
CPT-4	52.22	6.2	242.5	2.63	125	6640	3764	172.9	127.0	1.10	1.9	9.4	0.12	23.2	196.2	0.464	0.782	0.938	2.02	
CPT-4	52.3	6.2	235.6	2.76	125	6650	3769	167.9	123.2	1.19	1.9	10.2	0.14	27.1	195.0	0.464	0.769	0.923	1.99	
CPT-4	52.38	6.2	232.4	2.76	135	6660	3774	165.5	121.3	1.20	1.9	10.4	0.14	28.0	193.5	0.464	0.754	0.904	1.95	
CPT-4	52.45	6.2	240.6	2.54	125	6670	3779	171.2	125.5	1.07	1.9	9.3	0.12	22.5	193.7	0.464	0.756	0.907	1.96	
CPT-4	52.52	6.2	250.1	2.45	125	6679	3783	177.9	130.4	0.99	1.8	8.6	0.10	18.8	196.7	0.464	0.788	0.945	2.04	
CPT-4	52.6	6.2	263.2	2.33	125	6689	3788	187.1	137.1	0.90	1.8	7.6	0.07	14.0	201.1	0.464	0.836	1.003	2.16	
CPT-4	52.68	6.2	274.2	2.43	125	6699	3793	194.8	142.7	0.90	1.8	7.3	0.06	13.0	207.8	0.464	0.914	1.097	2.36	
CPT-4	52.75	6.2	292.1	2.44	125	6707	3798	207.4	152.0	0.85	1.7	6.6	0.04	9.2	216.6	0.464	1.025	1.230	2.65	
CPT-4	52.82	6.2	299.2	1.93	115	6716	3802	212.3	155.6	0.65	1.6	5.1	0.00	0.6	212.9	0.464	0.978	1.173	2.53	
CPT-4	52.9	6.2	304.1	1.86	115	6725	3806	215.7	158.0	0.62	1.6	4.8	0.00	0.0	215.7	0.464	1.013	1.215	2.62	
CPT-4	52.97	6.2	297	1.88	115	6733	3810	210.5	154.1	0.64	1.6	5.1	0.00	0.4	211.0	0.464	0.953	1.144	2.46	
CPT-4	53.04	6.2	286	1.9	115	6741	3814	202.6	148.2	0.67	1.7	5.5	0.01	3.0	205.6	0.464	0.889	1.066	2.30	
CPT-4	53.11	6.2	281	2.3	125	6750	3817	199.0	145.4	0.83	1.7	6.8	0.05	9.8	208.8	0.465	0.927	1.112	2.39	
CPT-4	53.15	6.2	271.9	2.55	125	6755	3820	192.5	140.5	0.95	1.8	7.8	0.07	15.4	207.9	0.465	0.916	1.099	2.37	
CPT-4	53.22	6.2	249.4	3.24	135	6763	3824	176.5	128.6	1.32	1.9	10.6	0.15	31.2	207.6	0.465	0.912	1.095	2.36	
CPT-4	53.29	6.2	213.2	4.12	135	6773	3829	150.7	109.5	1.96	2.1	15.3	0.27	57.0	207.8	0.465	0.914	1.097	2.36	
CPT-4	53.39	6.2	170.5	4.43	135	6786	3837	120.4	87.1	2.65	2.2	20.6	0.42	85.5	206.0	0.465	0.893	1.071	2.30	
CPT-4	53.47	6.2	123.9	4.3	135	6797	3842	87.5	62.7	3.57	2.4	28.0	0.61	138.4	225.9	0.465	1.152	1.382	2.97	
CPT-4	53.54	6.2	129.8	4.07	135	6806	3847	91.6	65.7	3.22	2.4	26.0	0.56	117.4	209.0	0.465	0.929	1.114	2.40	
CPT-4	53.62	6.2	131.7	3.77	135	6817	3853	92.8	66.6	2.94	2.4	24.7	0.53	103.5	196.3	0.465	0.784	0.941	2.02	
CPT-4	53.69	6.2	180.2	3.1	135	6827	3858	126.9	91.6	1.75	2.1	15.9	0.29	51.9	178.8	0.465	0.612	0.734	1.58	
CPT-4	53.77	6.2	202.8	2.25	125	6838	3864	142.7	103.2	1.13	1.9	11.2	0.17	28.5	171.2	0.465	0.547	0.656	1.41	
CPT-4	53.84	6.2	227.6	1.74	115	6846	3869	160.1	115.8	0.78	1.8	7.9	0.08	13.6	173.7	0.465	0.568	0.681	1.47	
CPT-4	53.91	6.2	245.1	1.79	115	6854	3872	172.3	124.8	0.74	1.8	7.2	0.06	10.5	182.9	0.465	0.649	0.779	1.67	

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	Δq_{c1N}	$(Q_{c1N})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	54.33	6.2	264	2.77	125	6906	3898	185.0	133.6	1.06	1.8	8.8	0.10	21.2	206.2	0.466	0.895	1.074	2.31	
CPT-4	54.4	6.2	264.7	3.66	135	6915	3902	185.4	133.8	1.40	1.9	10.8	0.15	33.9	219.3	0.466	1.061	1.273	2.73	
CPT-4	54.47	6.2	277.8	3.32	135	6924	3907	194.5	140.4	1.21	1.9	9.4	0.12	25.7	220.2	0.466	1.072	1.287	2.76	
CPT-4	54.53	6.2	290.9	3.37	125	6932	3912	203.5	146.9	1.17	1.8	8.8	0.10	23.2	226.7	0.466	1.164	1.397	3.00	
CPT-4	54.57	6.2	310	3.45	125	6937	3914	216.8	156.6	1.13	1.8	8.1	0.08	19.8	236.6	0.466	1.312	1.575	3.38	
CPT-4	54.61	6.2	317.4	3.5	125	6942	3917	221.9	160.2	1.11	1.8	7.9	0.08	18.8	240.7	0.466	1.377	1.652	3.55	
CPT-4	54.64	6.2	318.2	3.39	125	6946	3919	222.4	160.6	1.08	1.8	7.7	0.07	17.2	239.6	0.466	1.360	1.631	3.50	
CPT-4	54.68	6.2	309.6	3.18	125	6951	3921	216.3	156.1	1.04	1.8	7.6	0.07	16.4	232.8	0.466	1.253	1.503	3.23	
CPT-4	54.71	6.2	318.5	3.15	125	6955	3923	222.5	160.5	1.00	1.8	7.2	0.06	14.1	236.6	0.466	1.311	1.574	3.38	
CPT-4	54.74	6.2	327.7	3.13	125	6959	3925	228.9	165.1	0.97	1.7	6.8	0.05	11.8	240.7	0.466	1.377	1.652	3.55	
CPT-4	54.77	6.2	328.5	3.06	125	6962	3927	229.4	165.5	0.94	1.7	6.7	0.04	10.8	240.1	0.466	1.368	1.642	3.52	
CPT-4	54.8	6.2	326	2.9	125	6966	3929	227.6	164.1	0.90	1.7	6.5	0.04	9.3	236.8	0.466	1.315	1.579	3.39	
CPT-4	54.84	6.2	332.1	2.73	125	6971	3931	231.8	167.1	0.83	1.7	5.9	0.02	5.8	237.6	0.466	1.327	1.592	3.42	
CPT-4	54.87	6.2	337.1	2.73	125	6975	3933	235.2	169.6	0.82	1.7	5.7	0.02	4.8	240.0	0.466	1.365	1.638	3.52	
CPT-4	54.91	6.2	343.8	2.58	125	6980	3935	239.8	172.9	0.76	1.7	5.2	0.01	1.5	241.3	0.466	1.387	1.664	3.57	
CPT-4	54.94	6.2	353	2.43	115	6984	3937	246.1	177.5	0.70	1.6	4.7	0.00	0.0	246.1	0.466	1.467	1.760	3.78	
CPT-4	54.97	6.2	359.1	2.35	115	6987	3939	250.3	180.5	0.66	1.6	4.3	0.00	0.0	250.3	0.466	1.539	1.847	3.96	
CPT-4	55.02	6.2	368.7	2.24	115	6993	3941	257.0	185.2	0.61	1.6	3.9	0.00	0.0	257.0	0.466	1.658	1.989	4.27	
CPT-4	55.07	6.2	373.7	2.19	115	6999	3944	260.4	187.6	0.59	1.6	3.6	0.00	0.0	260.4	0.466	1.721	2.066	4.43	
CPT-4	55.12	6.2	373.3	2.27	115	7004	3947	260.0	187.3	0.61	1.6	3.8	0.00	0.0	260.0	0.466	1.714	2.057	4.41	
CPT-4	55.16	6.2	380	2.37	115	7009	3949	264.6	190.6	0.63	1.6	3.8	0.00	0.0	264.6	0.466	1.803	2.163	4.64	
CPT-4	55.23	6.2	371.7	2.69	115	7017	3953	258.7	186.2	0.73	1.6	4.6	0.00	0.0	258.7	0.466	1.690	2.028	4.35	
CPT-4	55.3	6.2	382.5	3.25	125	7025	3956	266.1	191.5	0.86	1.7	5.3	0.01	2.2	268.3	0.467	1.876	2.251	4.82	
CPT-4	55.37	6.2	367.8	3.31	125	7034	3961	255.7	183.9	0.91	1.7	5.9	0.02	6.0	261.7	0.467	1.746	2.095	4.49	
CPT-4	55.43	6.2	358.3	3.29	125	7041	3964	249.0	178.9	0.93	1.7	6.1	0.03	7.7	256.7	0.467	1.653	1.984	4.25	
CPT-4	55.5	6.2	359.5	3.17	125	7050	3969	249.7	179.3	0.89	1.7	5.9	0.02	6.0	255.7	0.467	1.635	1.962	4.20	
CPT-4	55.57	6.2	343.3	3.11	125	7059	3973	238.3	171.0	0.92	1.7	6.3	0.04	8.7	247.0	0.467	1.482	1.778	3.81	
CPT-4	55.63	6.2	341.3	3.13	125	7066	3977	236.8	169.8	0.93	1.7	6.4	0.04	9.4	246.2	0.467	1.468	1.762	3.77	
CPT-4	55.7	6.2	348.3	2.84	125	7075	3981	241.5	173.1	0.82	1.7	5.7	0.02	4.4	245.9	0.467	1.462	1.755	3.76	
CPT-4	55.77	6.2	353.9	2.61	115	7084	3986	245.3	175.7	0.74	1.6	5.1	0.00	0.4	245.6	0.467	1.459	1.750	3.75	
CPT-4	55.83	6.2	348.8	2.56	115	7091	3989	241.6	173.0	0.74	1.6	5.1	0.00	0.8	242.4	0.467	1.405	1.686	3.61	
CPT-4	55.89	6.2	346.1	2.55	115	7098	3992	239.7	171.5	0.74	1.6	5.2	0.01	1.2	240.9	0.467	1.380	1.656	3.54	
CPT-4	55.96	6.2	342.7	2.63	125	7106	3996	237.2	169.7	0.78	1.7	5.5	0.01	3.0	240.2	0.467	1.368	1.642	3.51	
CPT-4	56.03	6.2	347.8	2.99	125	7114	4000	240.6	172.0	0.87	1.7	6.0	0.03	6.5	247.1	0.467	1.484	1.780	3.81	
CPT-4	56.09	6.2	319.4	2.86	125	7122	4004	220.9	157.7	0.91	1.7	6.8	0.05	10.8	231.7	0.467	1.237	1.484	3.18	
CPT-4	56.16	6.2	309.6	2.63	125	7131	4008	214.0	152.6	0.86	1.7	6.7	0.04	9.9	223.9	0.467	1.123	1.348	2.88	
CPT-4	56.23	6.2	302.3	2.56	125	7139	4013	208.8	148.8	0.86	1.7	6.8	0.05	10.6	219.4	0.468	1.062	1.274	2.72	
CPT-4	56.29	6.2	285.1	2.38	125	7147	4016	196.8	140.1	0.85	1.8	7.1	0.06	11.8	208.6	0.468	0.924	1.109	2.37	
CPT-4	56.36	6.2	285.6	2.41	125	7156	4021	197.1	140.2	0.85	1.8	7.2	0.06	12.1	209.2	0.468	0.932	1.118	2.39	
CPT-4	56.41	6.2	289.8	2.27	125	7162	4024	199.9	142.2	0.79	1.7	6.7	0.04	9.3	209.2	0.468	0.931	1.117	2.39	
CPT-4	56.45	6.2	292.9	2.19	115	7167	4026	202.0	143.7	0.76	1.7	6.3	0.04	7.5	209.5	0.468	0.935	1.122	2.40	
CPT-4	56.52	6.2	277.6	2.43	125	7175	4030	191.3	135.9	0.89	1.8	7.6	0.07	14.2	205.6	0.468	0.888	1.066	2.28	
CPT-4	56.59	6.2	301	2.41	125	7184	4034	207.3	147.4	0.81	1.7	6.6	0.04	9.0	216.3	0.468	1.021	1.225	2.62	
CPT-4	56.66	6.2	316	2.4	125	7192	4039	217.6	154.6	0.77	1.7	6.0	0.03	5.8	223.3	0.468	1.116	1.339	2.86	
CPT-4	56.73	6.2	329.3	2.55	125	7201	4043	226.6	161.0	0.78	1.7	5.8	0.02	5.1	231.7	0.468	1.236	1.483	3.17	
CPT-4	56.81	6.2	321.5	2.5	125	7211	4048	221.1	157.0	0.79	1.7	6.0	0.03	6.0	227.1	0.468	1.170	1.404	3.00	
CPT-4	56.88	6.2	327.3	2.6	125	7220	4053	225.0	159.7	0.80	1.7	6.0	0.03	6.2	231.2	0.468	1.229	1.475	3.15	
CPT-4	56.94	6.2	324.8	2.48	125	7227	4056	223.1	158.3	0.77	1.7	5.8	0.02	5.2	228.3	0.468	1.187	1.424	3.04	
CPT-4	57.01	6.2	322	2.2	115	7236	4061	221.1	156.7	0.69	1.7	5.3	0.01	2.0	223.1	0.468	1.113	1.336	2.85	
CPT-4	57.08	6.2	304	2.15	115	7244	4064	208.6	147.7	0.72	1.7	5.9	0.02	5.0	213.6	0.468	0.987	1.184	2.53	
CPT-4	57.15	6.2	290.9	2.27	125	7252	4068	199.6	141.2	0.79	1.7	6.7	0.05	9.4	209.0	0.468	0.929	1.115	2.38	
CPT-4	57.21	6.2	273.3	1.78	115	7260	4072	187.4	132.4	0.66	1.7	6.2	0.03	6.0	193.4	0.468	0.753	0.903	1.93	
CPT-4	57.29	6.2	253.8	2.04	125	7269	4076	173.9	122.7	0.82	1.8	7.8	0.08	14.1	188.1	0.469	0.699	0.838	1.79	
CPT-4	57.36	6.2	241.4	2.1	125	7278	4080	165.3	116.5	0.88	1.8	8.7	0.10	17.9	183.3	0.469	0.652	0.783	1.67	
CPT-4	57.43	6.2	225.1	2.39	125	7287	4085	154.1	108.4	1.08	1.9	10.5	0.15	26.6	180.7	0.469	0.629	0.755	1.61	
CPT-4	57.5	6.2	214.7	2.75	135	7295	4089	146.9	103.2	1.30	2.0	12.3	0.19	35.6	182.5	0.469	0.645	0.774	1.65	
CPT-4	57.58	6.2	194.9	3.01	135	7306	4095	133.3	93.4	1.57	2.1	14.7	0.26	46.7	180.0	0.469	0.622	0.747	1.59	
CPT-4	57.65	6.2	186.3	3.17	135	7316	4100	127.3	89.1	1.74	2.1	16.0	0.29	53.2	180.5	0.469	0.627	0.752	1.60	
CPT-4	57.73	6.2	179.5	3.04	135	7326	4106	122.6	85.6	1.73	2.1	16.4	0.30	53.5	176.1	0.469	0.588	0.705	1.50	
CPT-4	57.81	6.2	171.3	3	135	7337	4112	116.9	81.5	1.79	2.1	17.2	0.33	56.4	173.3	0.469	0.564	0.676	1.44	
CPT-4	57.88	6.2	162.9	2.8	135	7347	4117	111.1	77.3	1.76	2.2	17.6	0.34	56.0	167.1	0.469	0.514	0.617	1.31	
CPT-4	57.96	6.2	156.2	2.53	135	7357	4123	106.4	74.0	1.66	2.2	17.5	0.33	53.1	159.5	0.469	0.457	0.549	1.17	Low F.S.
CPT-4	58.04	6.2	150.9	2.15	135															

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta q_{(1N)}$	$(q_{(1N)})_{es}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	58.43	6.2	133.3	1.33	125	7418	4154	90.5	62.4	1.03	2.1	15.2	0.27	33.8	124.3	0.469	0.258	0.310	0.66	Liquefaction
CPT-4	58.5	6.2	133.2	1.36	125	7427	4159	90.4	62.2	1.05	2.1	15.4	0.28	34.6	125.0	0.469	0.262	0.314	0.67	Liquefaction
CPT-4	58.58	6.2	134.2	1.43	125	7437	4164	91.0	62.6	1.10	2.1	15.6	0.28	36.1	127.1	0.469	0.271	0.325	0.69	Liquefaction
CPT-4	58.66	6.2	135.9	1.51	125	7447	4169	92.1	63.4	1.14	2.1	15.8	0.29	37.5	129.6	0.469	0.283	0.339	0.72	Liquefaction
CPT-4	58.73	6.2	136.1	1.62	125	7456	4173	92.2	63.4	1.22	2.1	16.4	0.30	40.3	132.5	0.469	0.296	0.356	0.76	Liquefaction
CPT-4	58.81	6.2	137.8	1.62	125	7466	4178	93.3	64.1	1.21	2.1	16.2	0.30	39.7	132.9	0.470	0.299	0.358	0.76	Liquefaction
CPT-4	58.89	6.2	141.6	1.65	125	7476	4183	95.8	65.9	1.20	2.1	15.8	0.29	38.9	134.7	0.470	0.307	0.369	0.79	Liquefaction
CPT-4	58.97	6.2	150.9	1.67	125	7486	4188	102.0	70.2	1.13	2.1	14.7	0.26	35.9	137.9	0.470	0.324	0.389	0.83	Liquefaction
CPT-4	59.05	6.2	159.8	1.82	125	7496	4193	108.0	74.4	1.17	2.1	14.4	0.25	36.2	144.1	0.470	0.359	0.430	0.92	Liquefaction
CPT-4	59.12	6.2	162.7	2.22	135	7505	4197	109.9	75.7	1.40	2.1	15.7	0.29	43.9	153.8	0.470	0.418	0.502	1.07	Low F.S.
CPT-4	59.2	6.2	160.7	2.7	135	7515	4203	108.5	74.6	1.72	2.2	17.7	0.34	55.7	164.1	0.470	0.491	0.590	1.25	
CPT-4	59.28	6.2	158.3	3.16	135	7526	4209	106.8	73.4	2.04	2.2	19.6	0.39	68.1	174.8	0.470	0.577	0.692	1.47	
CPT-4	59.36	6.2	161.4	3.52	135	7537	4215	108.8	74.8	2.23	2.2	20.3	0.41	75.1	183.9	0.470	0.658	0.790	1.68	
CPT-4	59.44	6.2	165.3	3.65	135	7548	4221	111.3	76.5	2.26	2.2	20.2	0.41	75.9	187.2	0.470	0.690	0.828	1.76	
CPT-4	59.52	6.2	179.3	3.27	135	7559	4226	120.7	83.0	1.86	2.2	17.4	0.33	59.6	180.3	0.470	0.625	0.750	1.60	
CPT-4	59.59	6.2	198	2.25	125	7568	4232	133.2	91.8	1.16	2.0	12.4	0.20	32.9	166.1	0.470	0.506	0.607	1.29	
CPT-4	59.67	6.2	215.7	2.16	125	7578	4237	145.0	100.0	1.02	1.9	10.8	0.15	26.4	171.4	0.470	0.548	0.658	1.40	
CPT-4	59.74	6.2	237.1	2.09	125	7587	4241	159.3	110.0	0.90	1.8	9.2	0.11	20.0	179.3	0.470	0.616	0.739	1.57	
CPT-4	59.81	6.2	240.4	2.06	125	7596	4245	161.4	111.4	0.87	1.8	8.9	0.10	18.8	180.2	0.470	0.624	0.749	1.59	
CPT-4	59.85	6.2	221.2	2.08	125	7601	4248	148.5	102.3	0.96	1.9	10.2	0.14	23.7	172.2	0.470	0.555	0.666	1.42	
CPT-4	59.93	6.2	264.7	2.17	125	7611	4253	177.6	122.6	0.83	1.8	7.9	0.08	15.1	192.7	0.470	0.745	0.894	1.90	
CPT-4	60	6.2	287.3	2.26	125	7619	4257	192.7	133.1	0.80	1.8	7.1	0.06	11.6	204.2	0.414	0.872	1.047	2.53	
CPT-4	60.08	6.2	309.2	2.52	125	7629	4262	207.2	143.2	0.83	1.7	6.8	0.05	10.7	217.9	0.414	1.042	1.251	3.02	
CPT-4	60.16	6.2	334.6	2.56	125	7639	4267	224.1	155.0	0.77	1.7	6.0	0.03	6.1	230.2	0.414	1.215	1.457	3.52	
CPT-4	60.23	6.2	365.8	2.62	115	7648	4272	244.9	169.4	0.72	1.6	5.1	0.00	0.8	245.7	0.414	1.459	1.751	4.23	
CPT-4	60.31	6.2	413.4	2.89	115	7657	4276	276.6	191.5	0.71	1.6	4.3	0.00	0.0	276.6	0.414	2.048	2.458	5.94	
CPT-4	60.38	6.2	458	3.24	115	7665	4280	306.3	212.2	0.71	1.6	3.9	0.00	0.0	306.3	0.414	2.753	3.304	7.98	
CPT-4	60.44	6.2	488.9	3.43	115	7672	4283	326.9	226.4	0.71	1.5	3.5	0.00	0.0	326.9	0.414	3.328	3.994	9.64	
CPT-4	60.51	6.2	510.4	4.48	125	7680	4286	341.1	236.3	0.88	1.6	4.4	0.00	0.0	341.1	0.414	3.771	4.525	10.92	
CPT-4	60.58	6.2	514.6	5.8	135	7689	4291	343.7	238.0	1.14	1.7	5.7	0.02	7.0	350.7	0.414	4.091	4.910	11.85	
CPT-4	60.64	6.2	499.3	5.35	125	7697	4295	333.3	230.6	1.08	1.7	5.6	0.02	5.5	338.8	0.414	3.698	4.437	10.71	
CPT-4	60.71	6.2	482.7	5.1	125	7706	4299	322.1	222.7	1.07	1.7	5.7	0.02	6.2	328.3	0.414	3.371	4.046	9.76	
CPT-4	60.77	6.2	459.3	4.79	125	7713	4303	306.3	211.6	1.05	1.7	5.9	0.02	7.6	314.0	0.414	2.959	3.550	8.57	
CPT-4	60.85	6.2	405.3	5.63	135	7723	4308	270.2	186.3	1.40	1.8	8.5	0.09	28.1	298.3	0.415	2.548	3.057	7.38	
CPT-4	60.91	6.2	397	4.89	135	7732	4313	264.5	182.2	1.24	1.8	7.8	0.08	21.6	286.2	0.415	2.259	2.711	6.54	
CPT-4	60.98	6.2	391.5	5.67	135	7741	4318	260.7	179.5	1.46	1.8	9.1	0.11	31.8	292.5	0.415	2.406	2.888	6.97	
CPT-4	61.07	6.2	339.6	4.58	135	7753	4324	226.0	155.2	1.36	1.9	9.5	0.12	31.1	257.0	0.415	1.659	1.991	4.80	
CPT-4	61.15	6.2	352.2	5.65	135	7764	4330	234.2	160.8	1.62	1.9	10.6	0.15	41.1	275.3	0.415	2.021	2.425	5.85	
CPT-4	61.21	6.2	349.4	6.77	135	7772	4334	232.2	159.4	1.96	2.0	12.2	0.19	55.6	287.8	0.415	2.297	2.756	6.65	
CPT-4	61.28	6.2	330.2	6.4	135	7781	4339	219.3	150.3	1.96	2.0	12.7	0.20	56.5	275.9	0.415	2.032	2.439	5.88	
CPT-4	61.35	6.2	353.8	5.86	135	7791	4345	234.9	161.0	1.67	1.9	10.8	0.16	43.4	278.3	0.415	2.084	2.501	6.03	
CPT-4	61.41	6.2	327.9	5.91	135	7799	4349	217.6	148.9	1.82	2.0	12.1	0.19	51.0	268.6	0.415	1.882	2.258	5.45	
CPT-4	61.47	6.2	301.8	5.26	135	7807	4353	200.1	136.8	1.77	2.0	12.5	0.20	50.0	250.1	0.415	1.535	1.843	4.44	
CPT-4	61.51	6.2	309.5	4.95	135	7813	4356	205.2	140.2	1.62	1.9	11.6	0.18	43.7	248.9	0.415	1.514	1.817	4.38	
CPT-4	61.56	6.2	310.3	4.3	135	7819	4360	205.6	140.5	1.40	1.9	10.4	0.15	35.0	240.6	0.415	1.375	1.650	3.98	
CPT-4	61.59	6.2	306.5	3.93	135	7823	4362	203.1	138.7	1.30	1.9	10.0	0.13	31.0	234.1	0.415	1.273	1.527	3.68	
CPT-4	61.63	6.2	301.2	3.13	125	7829	4365	199.5	136.2	1.05	1.8	8.6	0.10	21.5	221.0	0.415	1.084	1.301	3.14	
CPT-4	61.67	6.2	290	2.46	125	7834	4367	192.0	131.0	0.86	1.8	7.7	0.07	14.7	206.7	0.415	0.902	1.082	2.61	
CPT-4	61.71	6.2	280.2	2.5	125	7839	4370	185.5	126.4	0.90	1.8	8.2	0.09	17.4	202.9	0.415	0.857	1.028	2.48	
CPT-4	61.75	6.2	268.2	2.58	125	7844	4372	177.5	120.8	0.98	1.8	9.0	0.11	21.3	198.8	0.415	0.811	0.973	2.34	
CPT-4	61.81	6.2	247.3	2.76	125	7851	4376	163.6	111.2	1.13	1.9	10.7	0.15	29.1	192.7	0.415	0.745	0.895	2.16	
CPT-4	61.85	6.2	230.3	3.13	135	7856	4379	152.3	103.4	1.38	2.0	12.8	0.21	39.7	192.0	0.415	0.738	0.886	2.14	
CPT-4	61.89	6.2	215.5	3.49	135	7862	4382	142.4	96.5	1.65	2.1	14.8	0.26	50.7	193.1	0.415	0.750	0.900	2.17	
CPT-4	61.95	6.2	182.1	3.65	135	7870	4386	120.3	81.2	2.05	2.2	18.5	0.36	68.1	188.4	0.415	0.702	0.843	2.03	
CPT-4	62.02	6.2	160.4	3.64	135	7879	4391	105.9	71.2	2.33	2.3	21.3	0.43	81.4	187.3	0.415	0.691	0.829	2.00	
CPT-4	62.09	6.2	134.1	3.88	135	7889	4396	88.5	59.2	2.98	2.4	26.4	0.57	117.4	205.9	0.415	0.891	1.070	2.58	
CPT-4	62.17	6.2	94.8	4.18	135	7899	4402	62.5	41.3	4.60	2.6	37.5	0.80	250.1	312.6	0.415	2.921	3.505	8.45	NonLiqfble.
CPT-4	62.24	6.2	82.9	4.38	135	7909	4407	54.6	35.8	5.55	2.7	42.8	0.80	218.6	273.2	0.415	1.976	2.372	5.71	NonLiqfble.
CPT-4	62.32	6.2	74.6	4.49	135	7920	4413	49.1	32.0	6.36	2.8	47.2	0.80	196.5	245.7	0.415	1.459	1.751	4.22	NonLiqfble.
CPT-4	62.39	6.2	72.1	4.79	135	7929	4418	47.5	30.8	7.03	2.9	49.7	0.80	189.8	237.3	0.415	1.323	1.587	3.83	NonLiqfble.
CPT-4	62.46	6.2	77.2	5.21	140	7939	4423	50.8	33.1	7.11	2.8	48.7	0.80	203.2	254.0	0.415	1.603	1.924	4.64	NonLiqfble.
CPT-4	62.54	6.2	85.5	5.34	140	7950	4429	56.2	36.8	6.55	2.8	45.3	0.80	224.8	281.1	0.415				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-4
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c1N}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{c1N}	$(Q_{c1N})_{95}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-4	62.99	6.2	126.2	4.36	135	8012	4464	82.6	54.7	3.57	2.5	29.7	0.66	160.3	242.9	0.415	1.413	1.696	4.09	
CPT-4	63.06	6.2	111	4.72	135	8022	4469	72.7	47.9	4.41	2.6	34.6	0.79	274.6	347.3	0.415	3.974	4.769	11.49	
CPT-4	63.11	6.2	97.8	4.83	135	8029	4472	64.0	41.9	5.15	2.7	39.0	0.80	255.9	319.9	0.415	3.125	3.750	9.04	NonLiqfble.
CPT-4	63.19	6.2	117.8	5.01	140	8039	4478	77.0	50.8	4.40	2.6	33.7	0.77	253.9	331.0	0.415	3.452	4.142	9.98	
CPT-4	63.27	6.2	119.8	4.99	140	8051	4484	78.3	51.6	4.31	2.6	33.2	0.75	238.3	316.6	0.415	3.032	3.638	8.76	
CPT-4	63.35	6.2	106.3	4.89	135	8062	4491	69.4	45.5	4.78	2.6	36.6	0.80	277.6	347.0	0.415	3.967	4.760	11.47	NonLiqfble.
CPT-4	63.43	6.2	80.8	4.84	135	8073	4496	52.7	34.1	6.31	2.8	45.9	0.80	210.9	263.6	0.415	1.784	2.140	5.16	NonLiqfble.
CPT-4	63.51	6.2	55.1	4.83	135	8083	4502	35.9	22.7	9.46	3.0	61.8	0.80	143.7	179.6	0.415	0.619	0.743	1.79	NonLiqfble.
CPT-4	63.59	6.2	45	5.27	135	8094	4508	29.3	18.2	12.87	3.2	73.9	0.80	117.3	146.6	0.415	0.373	0.448	1.08	NonLiqfble.
CPT-4	63.67	6.2	86.7	5.6	140	8105	4514	56.5	36.6	6.78	2.8	46.0	0.80	225.9	282.3	0.415	2.173	2.607	6.28	NonLiqfble.
CPT-4	63.74	6.2	154.3	6.26	140	8115	4519	100.4	66.5	4.17	2.5	29.3	0.65	186.4	286.9	0.415	2.276	2.731	6.58	
CPT-4	63.82	6.2	211.4	7.21	140	8126	4526	137.5	91.6	3.48	2.3	23.2	0.49	130.3	267.8	0.415	1.866	2.239	5.39	
CPT-4	63.9	6.2	243.1	7.99	140	8137	4532	158.0	105.4	3.34	2.3	21.3	0.43	121.6	279.6	0.415	2.113	2.536	6.11	
CPT-4	63.97	6.2	259.3	8.46	140	8147	4537	168.4	112.5	3.31	2.2	20.6	0.42	119.7	288.1	0.415	2.305	2.765	6.66	
CPT-4	64.05	6.2	259	8.55	140	8158	4543	168.1	112.2	3.35	2.3	20.7	0.42	121.7	289.8	0.415	2.343	2.811	6.77	
CPT-4	64.13	6.2	250.4	8.31	140	8169	4550	162.4	108.2	3.37	2.3	21.1	0.43	123.0	285.5	0.415	2.243	2.692	6.48	
CPT-4	64.2	6.2	233.3	7.78	140	8179	4555	151.2	100.6	3.39	2.3	21.9	0.45	125.0	276.2	0.415	2.040	2.449	5.90	
CPT-4	64.25	6.2	220.9	7.31	140	8186	4559	143.1	95.1	3.37	2.3	22.4	0.47	124.8	268.0	0.415	1.870	2.244	5.40	
CPT-4	64.35	6.2	205.2	6.81	140	8200	4567	132.9	88.0	3.39	2.3	23.3	0.49	127.2	260.0	0.415	1.715	2.058	4.96	
CPT-4	64.44	6.2	203.8	6.85	140	8213	4574	131.9	87.3	3.43	2.3	23.6	0.50	129.7	261.5	0.415	1.743	2.092	5.04	
CPT-4	64.54	6.2	206.8	7.43	140	8227	4581	133.7	88.4	3.67	2.3	24.3	0.51	141.6	275.3	0.415	2.020	2.424	5.84	
CPT-4	64.61	6.2	209.2	7.75	140	8237	4587	135.2	89.4	3.78	2.4	24.5	0.52	147.4	282.6	0.415	2.179	2.614	6.30	
CPT-4	64.69	6.2	216	8.02	140	8248	4593	139.5	92.2	3.79	2.3	24.2	0.51	147.0	286.5	0.415	2.267	2.720	6.55	
CPT-4	64.76	6.2	222.9	5.97	135	8258	4598	143.8	95.1	2.73	2.2	20.0	0.40	95.8	239.6	0.415	1.360	1.632	3.93	
CPT-4	64.84	6.2	229	7.44	140	8268	4604	147.7	97.6	3.31	2.3	21.9	0.45	122.0	269.6	0.415	1.903	2.284	5.50	
CPT-4	64.91	6.2	239.8	7.65	140	8278	4610	154.5	102.2	3.25	2.3	21.3	0.43	118.5	273.0	0.415	1.972	2.366	5.70	
CPT-4	64.97	6.2	255.8	7.79	140	8287	4614	164.8	109.0	3.10	2.2	20.1	0.40	110.8	275.6	0.415	2.026	2.431	5.85	
CPT-4	65.01	6.2	271	7.98	140	8292	4617	174.5	115.5	2.99	2.2	19.1	0.38	105.5	280.0	0.415	2.122	2.547	6.13	

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{c15}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{c15}	$(Q_{c15})_{95}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	0.57	6.2	61.2	4.28	135	77	77	117.2	1589.0	7.00	2.1	15.3	0.27	44.4	161.6	0.350	0.472	0.567	1.62	Above W.T.
CPT-5	0.66	6.2	50.2	4.2	135	89	89	96.1	1125.4	8.37	2.2	18.4	0.36	53.8	150.0	0.350	0.394	0.472	1.35	Above W.T.
CPT-5	0.74	6.2	44.4	4.13	135	100	100	85.0	887.5	9.31	2.3	20.7	0.42	61.6	146.6	0.350	0.373	0.448	1.28	Above W.T.
CPT-5	0.87	6.2	41.8	4.05	135	117	117	80.1	710.5	9.70	2.3	22.2	0.46	68.2	148.2	0.350	0.383	0.459	1.31	Above W.T.
CPT-5	1.05	6.2	38.7	3.44	135	142	142	74.1	544.8	8.91	2.3	22.2	0.46	62.7	136.8	0.350	0.318	0.382	1.09	Above W.T.
CPT-5	1.26	6.2	35	2.72	135	170	170	67.0	410.4	7.79	2.3	21.7	0.45	54.2	121.2	0.350	0.246	0.295	0.84	Above W.T.
CPT-5	1.34	6.2	32.4	2.55	135	181	181	62.1	357.1	7.89	2.3	22.8	0.48	56.2	118.2	0.350	0.234	0.280	0.80	Above W.T.
CPT-5	1.42	6.2	32.5	2.45	135	192	192	62.2	337.9	7.56	2.3	22.5	0.47	54.7	116.9	0.350	0.229	0.275	0.78	Above W.T.
CPT-5	1.5	6.2	31.7	2.38	135	203	203	60.7	312.0	7.53	2.3	23.0	0.48	56.2	116.9	0.350	0.229	0.274	0.78	Above W.T.
CPT-5	1.58	6.2	32.1	2.34	135	213	213	61.5	299.9	7.31	2.3	22.8	0.48	55.9	117.4	0.350	0.231	0.277	0.79	Above W.T.
CPT-5	1.66	6.2	32.8	2.32	135	224	224	62.8	291.6	7.10	2.3	22.6	0.47	55.7	118.5	0.350	0.235	0.282	0.80	Above W.T.
CPT-5	1.74	6.2	31.3	2.29	135	235	235	59.9	265.4	7.34	2.3	23.8	0.50	60.3	120.3	0.350	0.242	0.290	0.83	Above W.T.
CPT-5	1.82	6.2	29.7	2.2	135	246	246	56.9	240.7	7.44	2.4	24.7	0.53	63.3	120.2	0.350	0.241	0.290	0.83	Above W.T.
CPT-5	1.9	6.2	29	2.21	135	257	257	55.5	225.0	7.65	2.4	25.7	0.55	68.6	124.2	0.350	0.258	0.310	0.88	Above W.T.
CPT-5	1.98	6.2	28.2	2.28	135	267	267	54.0	209.9	8.12	2.4	27.2	0.59	78.7	132.7	0.350	0.297	0.357	1.02	Above W.T.
CPT-5	2.06	6.2	26.3	2.41	135	278	278	50.4	188.1	9.21	2.5	30.2	0.67	104.2	154.6	0.350	0.423	0.508	1.45	Above W.T.
CPT-5	2.14	6.2	26.8	2.59	135	289	289	51.3	184.5	9.72	2.5	31.3	0.70	121.6	172.9	0.350	0.561	0.673	1.92	Above W.T.
CPT-5	2.31	6.2	33.5	2.95	135	312	312	64.2	213.8	8.85	2.4	28.4	0.63	107.2	171.4	0.350	0.548	0.658	1.88	Above W.T.
CPT-5	2.39	6.2	31.3	2.95	135	323	323	59.9	192.9	9.47	2.5	30.5	0.68	127.7	187.6	0.350	0.694	0.833	2.38	Above W.T.
CPT-5	2.47	6.2	30.5	2.88	135	333	333	58.4	181.9	9.49	2.5	31.1	0.70	133.8	192.3	0.350	0.741	0.889	2.54	Above W.T.
CPT-5	2.55	6.2	29.8	2.78	135	344	344	57.1	172.1	9.38	2.5	31.4	0.70	136.3	193.4	0.350	0.753	0.903	2.58	Above W.T.
CPT-5	2.63	6.2	28.6	2.62	135	355	355	54.8	160.0	9.22	2.5	31.8	0.72	137.9	192.7	0.350	0.745	0.894	2.55	Above W.T.
CPT-5	2.72	6.2	27	2.47	135	367	367	51.7	146.0	9.21	2.5	32.7	0.74	147.4	199.1	0.350	0.814	0.977	2.79	Above W.T.
CPT-5	2.8	6.2	26.1	2.38	135	378	378	50.0	137.0	9.19	2.6	33.3	0.76	155.5	205.5	0.350	0.887	1.064	3.04	Above W.T.
CPT-5	2.88	6.2	26.1	2.32	135	389	389	50.0	133.2	8.96	2.6	33.2	0.75	152.5	202.4	0.350	0.852	1.022	2.92	Above W.T.
CPT-5	2.96	6.2	26.7	2.3	135	400	400	51.1	132.6	8.68	2.5	32.7	0.74	145.5	196.7	0.350	0.788	0.945	2.70	Above W.T.
CPT-5	3.04	6.2	27	2.32	135	410	410	51.7	130.5	8.66	2.5	32.8	0.74	149.8	201.5	0.350	0.841	1.009	2.88	Above W.T.
CPT-5	3.12	6.2	27.8	2.36	135	421	421	53.2	130.9	8.55	2.5	32.6	0.74	149.1	202.4	0.350	0.851	1.021	2.91	Above W.T.
CPT-5	3.21	6.2	26.3	2.42	135	433	433	50.4	120.3	9.28	2.6	34.9	0.80	200.9	251.3	0.350	1.555	1.866	5.33	Above W.T.
CPT-4	3.29	6.2	26.3	2.42	135	444	444	50.4	117.4	9.28	2.6	35.2	0.80	201.5	251.8	0.350	1.566	1.879	5.36	Above W.T.
CPT-5	3.36	6.2	26.8	2.4	135	454	454	51.3	117.1	9.03	2.6	34.8	0.80	199.1	250.4	0.350	1.540	1.848	5.27	Above W.T.
CPT-5	3.45	6.2	26.5	2.39	135	466	466	50.8	112.7	9.10	2.6	35.3	0.80	203.0	253.8	0.350	1.600	1.920	5.48	Above W.T.
CPT-5	3.53	6.2	27.2	2.41	135	477	477	52.1	113.1	8.94	2.6	35.0	0.80	209.4	261.5	0.350	1.742	2.091	5.97	Above W.T.
CPT-5	3.61	6.2	27.7	2.43	135	487	487	53.1	112.6	8.85	2.6	34.9	0.80	208.8	261.9	0.350	1.750	2.100	5.99	Above W.T.
CPT-5	3.69	6.2	29.1	2.44	135	498	498	55.7	115.8	8.46	2.6	33.8	0.77	184.4	240.1	0.350	1.367	1.641	4.68	Above W.T.
CPT-5	3.77	6.2	30.6	2.48	135	509	509	58.6	119.2	8.17	2.5	32.8	0.74	169.9	228.5	0.350	1.190	1.428	4.08	Above W.T.
CPT-5	3.85	6.2	30.2	2.52	135	520	520	57.8	115.2	8.42	2.6	33.7	0.77	190.7	248.5	0.350	1.508	1.810	5.16	Above W.T.
CPT-5	3.94	6.2	29.6	2.55	135	532	532	56.2	110.3	8.69	2.6	34.8	0.80	218.5	274.7	0.350	2.007	2.409	6.88	Above W.T.
CPT-5	4.02	6.2	29.2	2.56	135	543	543	54.8	106.6	8.85	2.6	35.5	0.80	219.4	274.2	0.350	1.998	2.397	6.84	Above W.T.
CPT-5	4.1	6.2	30.2	2.58	135	554	554	56.2	108.1	8.62	2.6	34.9	0.80	221.8	277.9	0.350	2.076	2.492	7.11	Above W.T.
CPT-5	4.18	6.2	31.6	2.59	135	564	564	58.2	111.0	8.27	2.6	33.9	0.77	195.4	253.6	0.350	1.598	1.917	5.47	Above W.T.
CPT-5	4.26	6.2	32.2	2.63	135	575	575	58.7	110.9	8.24	2.6	33.8	0.77	195.6	254.3	0.350	1.609	1.931	5.51	Above W.T.
CPT-5	4.34	6.2	32.4	2.7	135	586	586	58.6	109.6	8.41	2.6	34.3	0.78	210.2	268.8	0.350	1.886	2.263	6.46	Above W.T.
CPT-5	4.42	6.2	32.6	2.7	135	597	597	58.4	108.2	8.36	2.6	34.3	0.78	210.8	269.2	0.350	1.894	2.273	6.49	Above W.T.
CPT-5	4.5	6.2	32.5	2.63	135	608	608	57.7	106.0	8.17	2.6	34.2	0.78	203.5	261.2	0.350	1.736	2.084	5.95	Above W.T.
CPT-5	4.58	6.2	32.5	2.53	135	618	618	57.2	104.1	7.86	2.6	33.7	0.77	188.3	245.5	0.350	1.455	1.746	4.98	Above W.T.
CPT-5	4.67	6.2	31.6	2.46	135	630	630	55.1	99.2	7.86	2.6	34.3	0.78	197.9	253.0	0.350	1.586	1.903	5.43	Above W.T.
CPT-5	4.75	6.2	29.9	2.43	135	641	641	51.7	92.2	8.22	2.6	35.9	0.80	206.6	258.3	0.350	1.683	2.020	5.76	Above W.T.
CPT-5	4.83	6.2	30.4	2.38	135	652	652	52.1	92.2	7.91	2.6	35.3	0.80	208.4	260.4	0.350	1.723	2.068	5.90	Above W.T.
CPT-5	4.91	6.2	29.4	2.23	135	663	663	50.0	87.7	7.67	2.6	35.4	0.80	199.9	249.8	0.350	1.530	1.836	5.24	Above W.T.
CPT-5	5	6.2	28.2	2.19	135	675	675	47.5	82.5	7.86	2.6	36.6	0.80	190.0	237.5	0.350	1.325	1.590	4.54	Above W.T.
CPT-5	5.07	6.2	27.5	2.32	135	684	684	46.0	79.3	8.54	2.7	38.6	0.80	184.0	230.0	0.350	1.211	1.453	4.15	Above W.T.
CPT-5	5.16	6.2	28.9	2.42	135	697	697	47.9	81.9	8.48	2.7	38.0	0.80	191.6	239.5	0.350	1.358	1.630	4.65	Above W.T.
CPT-5	5.25	6.2	30.1	2.48	135	709	709	49.5	83.9	8.34	2.6	37.4	0.80	197.9	247.3	0.350	1.487	1.785	5.09	Above W.T.
CPT-5	5.33	6.2	30.6	2.48	135	720	720	49.9	84.0	8.20	2.6	37.1	0.80	199.6	249.6	0.350	1.525	1.831	5.23	Above W.T.
CPT-5	5.42	6.2	29.7	2.48	135	732	732	48.0	80.1	8.45	2.7	38.2	0.80	192.2	240.2	0.350	1.369	1.643	4.69	Above W.T.
CPT-5	5.5	6.2	29.2	2.48	135	742	742	46.9	77.6	8.60	2.7	39.0	0.80	187.5	234.4	0.350	1.278	1.534	4.38	Above W.T.
CPT-5	5.58	6.2	29.5	2.5	135	753	753	47.0	77.3	8.58	2.7	39.0	0.80	188.1	235.1	0.350	1.289	1.547	4.42	Above W.T.
CPT-5	5.66	6.2	30.3	2.56	135	764	764	48.0	78.3	8.56	2.7	38.8	0.80	191.8	239.8	0.350	1.362	1.635	4.67	Above W.T.
CPT-5	5.74	6.2	29.6	2.64	135	775	775	46.5	75.4	9.04	2.7	40.3	0.80	186.1	232.6	0.350	1.251	1.501	4.28	Above W.T.
CPT-5	5.82	6.2	29.6	2.71	135	786	786	46.2	74.3	9.28	2.7	41.0	0.80	184.8	231.0	0.350	1.227	1.472	4.20	Above W.T.
CPT-5	5.91	6.2	30.4	2.77	135	798	798	47.1	75.2	9.23	2.7	40.7	0.80	188.4	235.5	0.350	1.294	1.553	4.4	

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(IN)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(IN)}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments	
CPT-5	6.23	6.2	33.5	3.05	135	841	836	50.7	79.1	9.22	2.7	40.0	0.80	202.8	253.5	0.352	1.594	1.913	5.43	NonLiqfble.
CPT-5	6.31	6.2	34.4	3.07	135	852	842	51.9	80.7	9.04	2.7	39.4	0.80	207.5	259.4	0.355	1.703	2.043	5.76	NonLiqfble.
CPT-5	6.39	6.2	35.2	3.1	135	863	848	52.9	82.0	8.92	2.7	38.9	0.80	211.6	264.5	0.357	1.801	2.161	6.06	NonLiqfble.
CPT-5	6.48	6.2	35.9	3.14	135	875	854	53.7	83.0	8.85	2.7	38.6	0.80	215.0	268.7	0.359	1.885	2.262	6.30	NonLiqfble.
CPT-5	6.56	6.2	35.2	3.15	135	886	860	52.5	80.8	9.06	2.7	39.4	0.80	210.1	262.6	0.361	1.764	2.117	5.87	NonLiqfble.
CPT-5	6.64	6.2	34.7	3.19	135	896	866	51.6	79.1	9.31	2.7	40.2	0.80	206.4	258.0	0.363	1.677	2.012	5.55	NonLiqfble.
CPT-5	6.72	6.2	34.6	3.24	135	907	872	51.3	78.3	9.49	2.7	40.7	0.80	205.1	256.4	0.365	1.647	1.977	5.42	NonLiqfble.
CPT-5	6.8	6.2	35.5	3.25	135	918	877	52.4	79.8	9.27	2.7	40.0	0.80	209.7	262.2	0.367	1.756	2.107	5.75	NonLiqfble.
CPT-5	6.88	6.2	36	3.24	135	929	883	53.0	80.4	9.12	2.7	39.6	0.80	212.0	265.0	0.368	1.811	2.173	5.90	NonLiqfble.
CPT-5	6.96	6.2	37.1	3.24	135	940	889	54.4	82.4	8.85	2.7	38.7	0.80	217.8	272.2	0.370	1.956	2.347	6.34	NonLiqfble.
CPT-5	7.04	6.2	37.7	3.23	135	950	895	55.1	83.2	8.68	2.7	38.2	0.80	220.6	275.7	0.372	2.029	2.435	6.54	NonLiqfble.
CPT-5	7.12	6.2	37.1	3.24	135	961	901	54.1	81.3	8.85	2.7	38.9	0.80	216.4	270.4	0.374	1.920	2.303	6.16	NonLiqfble.
CPT-5	7.2	6.2	37.4	3.23	135	972	906	54.4	81.4	8.75	2.7	38.7	0.80	217.4	271.8	0.376	1.946	2.336	6.22	NonLiqfble.
CPT-5	7.28	6.2	37.6	3.15	135	983	912	54.5	81.3	8.49	2.7	38.1	0.80	217.9	272.3	0.377	1.958	2.350	6.23	NonLiqfble.
CPT-5	7.36	6.2	36.4	2.98	135	994	918	52.6	78.2	8.30	2.7	38.2	0.80	210.2	262.8	0.379	1.768	2.122	5.60	NonLiqfble.
CPT-5	7.44	6.2	34.2	2.75	135	1004	924	49.2	72.9	8.16	2.7	38.9	0.80	196.9	246.1	0.381	1.467	1.760	4.62	NonLiqfble.
CPT-5	7.52	6.2	33.4	2.53	135	1015	930	47.9	70.7	7.69	2.7	38.2	0.80	191.7	239.6	0.383	1.360	1.632	4.27	NonLiqfble.
CPT-5	7.6	6.2	32.8	2.31	135	1026	936	46.9	69.0	7.15	2.6	37.3	0.80	187.7	234.6	0.384	1.281	1.537	4.00	NonLiqfble.
CPT-5	7.68	6.2	31.4	2.13	135	1037	941	44.8	65.6	6.90	2.6	37.4	0.80	179.1	223.9	0.386	1.124	1.349	3.49	NonLiqfble.
CPT-5	7.76	6.2	29.8	2	135	1048	947	42.4	61.8	6.83	2.7	38.0	0.80	169.5	211.8	0.388	0.964	1.157	2.99	NonLiqfble.
CPT-5	7.84	6.2	28.1	1.9	135	1058	953	39.8	57.8	6.89	2.7	39.1	0.80	159.3	199.1	0.389	0.814	0.977	2.51	NonLiqfble.
CPT-5	7.92	6.2	26.8	1.79	135	1069	959	37.9	54.8	6.82	2.7	39.7	0.80	151.5	189.4	0.391	0.711	0.854	2.18	NonLiqfble.
CPT-5	8	6.2	26	1.69	135	1080	965	36.6	52.8	6.64	2.7	39.8	0.80	146.5	183.1	0.392	0.651	0.782	1.99	NonLiqfble.
CPT-5	8.08	6.2	25.5	1.6	135	1091	970	35.8	51.4	6.41	2.7	39.6	0.80	143.3	179.1	0.394	0.614	0.737	1.87	NonLiqfble.
CPT-5	8.17	6.2	24.7	1.25	135	1103	977	34.6	49.4	5.18	2.6	36.6	0.80	138.3	172.9	0.396	0.561	0.673	1.70	NonLiqfble.
CPT-5	8.25	6.2	24.8	1.45	135	1114	983	34.6	49.3	5.98	2.7	39.0	0.80	138.5	173.1	0.397	0.562	0.675	1.70	NonLiqfble.
CPT-5	8.32	6.2	25.9	1.54	135	1123	988	36.1	51.3	6.08	2.7	38.7	0.80	144.2	180.3	0.398	0.625	0.750	1.88	NonLiqfble.
CPT-5	8.4	6.2	27.3	1.56	135	1134	994	37.9	53.8	5.84	2.6	37.3	0.80	151.6	189.5	0.400	0.713	0.855	2.14	NonLiqfble.
CPT-5	8.46	6.2	22.7	1.58	135	1142	998	31.4	44.3	7.14	2.8	43.8	0.80	125.8	157.2	0.401	0.441	0.530	1.32	NonLiqfble.
CPT-5	8.55	6.2	27.9	1.55	135	1154	1004	38.5	54.4	5.67	2.6	36.7	0.80	154.1	192.6	0.403	0.744	0.893	2.22	NonLiqfble.
CPT-5	8.63	6.2	26	1.53	135	1165	1010	35.8	50.3	6.02	2.7	38.8	0.80	143.2	179.0	0.404	0.613	0.736	1.82	NonLiqfble.
CPT-5	8.75	6.2	25.4	1.51	135	1181	1019	34.8	48.7	6.09	2.7	39.5	0.80	139.3	174.1	0.406	0.571	0.685	1.69	NonLiqfble.
CPT-5	8.9	6.2	24.5	1.49	135	1202	1030	33.4	46.4	6.23	2.7	40.7	0.80	133.6	167.0	0.409	0.513	0.616	1.51	NonLiqfble.
CPT-5	9.22	6.2	24.1	1.31	135	1245	1053	32.5	44.6	5.58	2.7	39.4	0.80	130.0	162.5	0.414	0.479	0.575	1.39	NonLiqfble.
CPT-5	9.33	6.2	24.7	1.33	135	1260	1061	33.2	45.3	5.53	2.7	39.0	0.80	132.7	165.9	0.416	0.505	0.605	1.46	NonLiqfble.
CPT-5	9.41	6.2	27.2	1.37	135	1270	1067	36.4	49.8	5.16	2.6	36.5	0.80	145.7	182.2	0.417	0.642	0.771	1.85	NonLiqfble.
CPT-5	9.49	6.2	28.9	1.43	135	1281	1073	38.6	52.7	5.06	2.6	35.4	0.80	154.4	193.0	0.418	0.749	0.899	2.15	NonLiqfble.
CPT-5	9.58	6.2	28.2	1.48	135	1293	1079	37.6	51.0	5.37	2.6	36.8	0.80	150.2	187.8	0.420	0.696	0.835	1.99	NonLiqfble.
CPT-5	9.66	6.2	27.9	1.49	135	1304	1085	37.1	50.2	5.47	2.6	37.3	0.80	148.2	185.3	0.421	0.672	0.806	1.91	NonLiqfble.
CPT-5	9.74	6.2	27.4	1.45	135	1315	1091	36.3	49.0	5.42	2.6	37.5	0.80	145.2	181.5	0.422	0.636	0.763	1.81	NonLiqfble.
CPT-5	9.81	6.2	26.5	1.39	135	1324	1096	35.0	47.1	5.38	2.7	38.0	0.80	140.1	175.1	0.423	0.579	0.695	1.64	NonLiqfble.
CPT-5	9.9	6.2	26.3	1.31	135	1337	1103	34.7	46.5	5.11	2.6	37.3	0.80	138.6	173.3	0.425	0.564	0.677	1.59	NonLiqfble.
CPT-5	9.98	6.2	25.6	1.23	135	1347	1108	33.6	45.0	4.93	2.6	37.3	0.80	134.6	168.2	0.426	0.523	0.627	1.47	NonLiqfble.
CPT-5	10.07	6.2	25.3	1.19	135	1359	1115	33.2	44.1	4.83	2.6	37.2	0.80	132.6	165.8	0.419	0.504	0.604	1.44	NonLiqfble.
CPT-5	10.15	6.2	25.1	1.19	135	1370	1121	32.8	43.6	4.87	2.6	37.6	0.80	131.2	164.0	0.420	0.490	0.589	1.40	NonLiqfble.
CPT-5	10.24	6.2	26.7	1.21	135	1382	1127	34.8	46.1	4.65	2.6	36.0	0.80	139.2	174.0	0.421	0.570	0.684	1.62	NonLiqfble.
CPT-5	10.32	6.2	26.9	1.22	135	1393	1133	35.0	46.2	4.66	2.6	35.9	0.80	139.9	174.8	0.422	0.577	0.692	1.64	NonLiqfble.
CPT-5	10.4	6.2	26.4	1.22	135	1404	1139	34.2	45.1	4.75	2.6	36.6	0.80	136.9	171.1	0.423	0.546	0.655	1.55	NonLiqfble.
CPT-5	10.49	6.2	27.2	1.21	135	1416	1145	35.2	46.2	4.57	2.6	35.6	0.80	140.7	175.8	0.425	0.586	0.703	1.66	NonLiqfble.
CPT-5	10.57	6.2	27.6	1.22	135	1427	1151	35.6	46.7	4.54	2.6	35.4	0.80	142.4	178.0	0.426	0.604	0.725	1.70	NonLiqfble.
CPT-5	10.65	6.2	28.1	1.22	135	1438	1157	36.1	47.3	4.46	2.6	34.9	0.80	143.9	180.1	0.427	0.623	0.748	1.75	NonLiqfble.
CPT-5	10.74	6.2	28.1	1.23	135	1450	1163	36.0	47.0	4.49	2.6	35.1	0.80	144.2	180.2	0.428	0.624	0.749	1.75	NonLiqfble.
CPT-5	10.82	6.2	28.1	1.27	135	1461	1169	36.0	46.8	4.64	2.6	35.7	0.80	143.8	179.8	0.429	0.620	0.744	1.74	NonLiqfble.
CPT-5	10.9	6.2	27.7	1.32	135	1472	1175	35.4	45.9	4.90	2.6	36.8	0.80	141.4	176.8	0.430	0.594	0.713	1.66	NonLiqfble.
CPT-5	10.98	6.2	27.1	1.35	135	1482	1181	34.5	44.6	5.12	2.7	38.0	0.80	138.0	172.5	0.431	0.558	0.669	1.55	NonLiqfble.
CPT-5	11.07	6.2	25.9	1.34	135	1494	1187	32.9	42.3	5.33	2.7	39.4	0.80	131.5	164.4	0.432	0.493	0.592	1.37	NonLiqfble.
CPT-5	11.15	6.2	24.1	1.31	135	1505	1193	30.5	39.1	5.61	2.7	41.6	0.80	122.1	152.6	0.433	0.411	0.493	1.14	NonLiqfble.
CPT-5	11.23	6.2	22.4	1.26	135	1516	1199	28.3	36.1	5.82	2.8	43.5	0.80	113.2	141.5	0.434	0.344	0.412	0.95	NonLiqfble.
CPT-5	11.32	6.2	21.8	1.19	135	1528	1206	27.5	34.9	5.66	2.8	43.6	0.80	109.9	137.4	0.435	0.321	0.385	0.89	NonLiqfble.
CPT-5	11.4	6.2	20.9	1.15	135	1539	1211	26.3	33.2	5.71	2.8	44.6	0.80	105.1	131.4	0.436	0.291	0.349	0.80	NonLiqfble.
CPT-5	11.48	6.2	21.2	1.14	135	1550	1217	26.6	33.5	5.58	2.8	44.0	0.80	106.3	132.9	0.437	0.298	0.358	0.82	NonLiqfble.
CPT-5																				

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta q_{(1N)}$	$(q_{(1N)})_s$	Induced Liquef. Stress			Factor of Safety	Comments
																Ratio	M7.5	M7.10		
CPT-5	12.33	6.2	18.4	0.99	135	1665	1279	22.5	27.5	5.64	2.8	47.8	0.80	90.0	112.6	0.447	0.213	0.255	0.57	NonLiqfble.
CPT-5	12.42	6.2	18.8	0.94	135	1677	1285	22.9	27.9	5.23	2.8	46.1	0.80	91.8	114.7	0.448	0.220	0.264	0.59	NonLiqfble.
CPT-5	12.5	6.2	18.5	0.89	125	1688	1291	22.5	27.3	5.04	2.8	45.9	0.80	90.1	112.6	0.449	0.213	0.255	0.57	NonLiqfble.
CPT-5	12.58	6.2	18.3	0.85	125	1698	1296	22.2	26.9	4.87	2.8	45.6	0.80	89.0	111.2	0.450	0.208	0.249	0.55	NonLiqfble.
CPT-5	12.66	6.2	18.7	0.83	125	1708	1301	22.7	27.4	4.65	2.8	44.5	0.80	90.7	113.4	0.451	0.216	0.259	0.57	NonLiqfble.
CPT-5	12.75	6.2	19.3	0.84	125	1719	1307	23.4	28.2	4.56	2.8	43.6	0.80	93.4	116.8	0.452	0.228	0.274	0.61	NonLiqfble.
CPT-5	12.83	6.2	18.6	0.86	125	1729	1312	22.5	27.0	4.85	2.8	45.4	0.80	89.9	112.3	0.452	0.212	0.254	0.56	NonLiqfble.
CPT-5	12.92	6.2	19.1	0.87	125	1740	1318	23.0	27.7	4.77	2.8	44.7	0.80	92.1	115.1	0.453	0.222	0.266	0.59	NonLiqfble.
CPT-5	13	6.2	19.1	0.88	125	1750	1323	23.0	27.5	4.83	2.8	45.0	0.80	91.9	114.9	0.454	0.221	0.265	0.58	NonLiqfble.
CPT-5	13.09	6.2	19.7	0.93	135	1761	1328	23.7	28.3	4.94	2.8	44.9	0.80	94.6	118.3	0.455	0.234	0.281	0.62	NonLiqfble.
CPT-5	13.17	6.2	20.5	1.03	135	1772	1334	24.6	29.4	5.25	2.8	45.3	0.80	98.2	122.8	0.456	0.252	0.303	0.66	NonLiqfble.
CPT-5	13.25	6.2	24.2	1.13	135	1783	1340	28.9	34.8	4.85	2.7	41.1	0.80	115.7	144.6	0.457	0.361	0.434	0.95	NonLiqfble.
CPT-5	13.34	6.2	31.7	1.21	135	1795	1346	37.8	45.7	3.93	2.6	33.6	0.76	121.3	159.1	0.458	0.455	0.546	1.19	Low F.S.
CPT-5	13.42	6.2	41.5	1.21	135	1806	1352	49.4	60.0	2.98	2.4	26.2	0.57	64.2	113.6	0.459	0.216	0.260	0.57	Liquefaction
CPT-5	13.5	6.2	49.6	1.13	135	1817	1358	58.9	71.7	2.32	2.3	21.2	0.43	44.8	103.7	0.459	0.184	0.220	0.48	Liquefaction
CPT-5	13.58	6.2	50.3	0.96	135	1827	1364	59.6	72.4	1.94	2.2	19.2	0.38	36.5	96.1	0.460	0.162	0.195	0.42	Liquefaction
CPT-5	13.66	6.2	50.9	0.81	125	1838	1370	60.2	73.0	1.62	2.2	17.4	0.33	29.7	89.9	0.461	0.148	0.177	0.38	Liquefaction
CPT-5	13.74	6.2	51.8	0.76	125	1848	1375	61.1	74.0	1.49	2.1	16.5	0.31	27.1	88.3	0.462	0.144	0.173	0.37	Liquefaction
CPT-5	13.83	6.2	50.9	0.82	135	1859	1380	59.9	72.4	1.64	2.2	17.6	0.34	30.3	90.3	0.463	0.148	0.178	0.39	Liquefaction
CPT-5	13.91	6.2	49.9	0.96	135	1870	1386	58.6	70.6	1.96	2.2	19.6	0.39	37.3	96.0	0.463	0.162	0.195	0.42	Liquefaction
CPT-5	13.99	6.2	46.6	1.05	135	1881	1392	54.7	65.6	2.30	2.3	22.1	0.46	45.8	100.5	0.464	0.174	0.209	0.45	Liquefaction
CPT-5	14.07	6.2	38.6	1.04	135	1892	1398	45.2	53.9	2.76	2.4	26.6	0.58	61.6	106.8	0.465	0.193	0.232	0.50	Liquefaction
CPT-5	14.16	6.2	30.5	0.98	135	1904	1404	35.6	42.1	3.32	2.5	32.4	0.73	96.8	132.4	0.466	0.296	0.355	0.76	Liquefaction
CPT-5	14.24	6.2	23.5	0.92	135	1915	1410	27.4	32.0	4.08	2.7	39.7	0.80	109.5	136.9	0.466	0.319	0.382	0.82	NonLiqfble.
CPT-5	14.32	6.2	21.9	0.86	135	1926	1416	25.5	29.6	4.11	2.7	41.1	0.80	101.9	127.3	0.467	0.272	0.326	0.70	NonLiqfble.
CPT-5	14.41	6.2	22.1	0.89	135	1938	1422	25.6	29.7	4.21	2.7	41.5	0.80	102.6	128.2	0.468	0.276	0.331	0.71	NonLiqfble.
CPT-5	14.49	6.2	21.1	0.95	135	1949	1428	24.4	28.2	4.72	2.8	44.2	0.80	97.7	122.1	0.468	0.249	0.299	0.64	NonLiqfble.
CPT-5	14.57	6.2	20	0.98	135	1959	1434	23.1	26.5	5.15	2.8	46.8	0.80	92.4	115.5	0.469	0.223	0.268	0.57	NonLiqfble.
CPT-5	14.65	6.2	19.3	0.99	135	1970	1440	22.3	25.4	5.41	2.8	48.5	0.80	89.0	111.3	0.470	0.208	0.250	0.53	NonLiqfble.
CPT-5	14.73	6.2	18.6	0.99	135	1981	1446	21.4	24.4	5.62	2.9	50.0	0.80	85.6	107.0	0.471	0.194	0.233	0.49	NonLiqfble.
CPT-5	14.82	6.2	18.6	1	135	1993	1452	21.4	24.2	5.68	2.9	50.3	0.80	85.4	106.8	0.471	0.193	0.232	0.49	NonLiqfble.
CPT-5	14.9	6.2	19.5	1.03	135	2004	1458	22.3	25.4	5.57	2.9	49.0	0.80	89.4	111.7	0.472	0.210	0.252	0.53	NonLiqfble.
CPT-5	14.98	6.2	19	1.04	135	2015	1464	21.7	24.6	5.78	2.9	50.3	0.80	86.9	108.6	0.473	0.199	0.239	0.51	NonLiqfble.
CPT-5	15.07	6.2	21.5	0.96	135	2027	1470	24.5	27.9	4.69	2.8	44.3	0.80	98.1	122.7	0.473	0.252	0.302	0.64	NonLiqfble.
CPT-5	15.15	6.2	21.5	1.03	135	2038	1476	24.5	27.7	5.03	2.8	45.6	0.80	97.9	122.4	0.474	0.251	0.301	0.63	NonLiqfble.
CPT-5	15.22	6.2	20.2	0.95	135	2047	1481	23.0	25.9	4.95	2.8	46.6	0.80	91.9	114.8	0.475	0.221	0.265	0.56	NonLiqfble.
CPT-5	15.3	6.2	18.2	0.87	125	2058	1487	20.7	23.1	5.07	2.9	49.1	0.80	82.6	103.3	0.475	0.182	0.219	0.46	NonLiqfble.
CPT-5	15.34	6.2	12	0.83	125	2063	1489	13.6	14.7	7.57	3.1	66.6	0.80	54.4	68.0	0.476	0.109	0.131	0.28	NonLiqfble.
CPT-5	15.39	6.2	17.3	0.81	125	2069	1493	19.6	21.8	4.98	2.9	50.0	0.80	78.4	98.0	0.476	0.167	0.201	0.42	NonLiqfble.
CPT-5	15.47	6.2	14.6	0.79	125	2079	1498	16.5	18.1	5.83	3.0	56.7	0.80	66.0	82.5	0.477	0.132	0.159	0.33	NonLiqfble.
CPT-5	15.55	6.2	14.4	0.76	125	2089	1503	16.3	17.8	5.69	3.0	56.6	0.80	65.0	81.3	0.477	0.130	0.156	0.33	NonLiqfble.
CPT-5	15.63	6.2	14.9	0.77	125	2099	1508	16.8	18.4	5.56	3.0	55.5	0.80	67.2	84.0	0.478	0.135	0.162	0.34	NonLiqfble.
CPT-5	15.71	6.2	15.8	0.8	125	2109	1513	17.8	19.5	5.43	2.9	53.8	0.80	71.1	88.9	0.479	0.145	0.174	0.36	NonLiqfble.
CPT-5	15.8	6.2	18.1	0.81	125	2120	1518	20.3	22.4	4.75	2.8	48.6	0.80	81.3	101.6	0.480	0.178	0.213	0.44	NonLiqfble.
CPT-5	15.88	6.2	20.2	0.81	125	2130	1523	22.6	25.1	4.23	2.8	44.5	0.80	90.6	113.2	0.480	0.215	0.258	0.54	NonLiqfble.
CPT-5	15.96	6.2	20.6	0.8	125	2140	1528	23.1	25.5	4.10	2.8	43.7	0.80	92.2	115.3	0.481	0.222	0.267	0.56	NonLiqfble.
CPT-5	16.04	6.2	20.7	0.79	125	2150	1533	23.1	25.6	4.03	2.8	43.4	0.80	92.5	115.7	0.482	0.224	0.269	0.56	NonLiqfble.
CPT-5	16.13	6.2	22.2	0.8	135	2162	1539	24.8	27.4	3.79	2.7	41.2	0.80	99.0	123.8	0.482	0.256	0.308	0.64	NonLiqfble.
CPT-5	16.21	6.2	22.9	0.8	135	2172	1545	25.5	28.2	3.67	2.7	40.2	0.80	102.0	127.5	0.483	0.273	0.327	0.68	NonLiqfble.
CPT-5	16.29	6.2	23	0.78	135	2183	1551	25.6	28.2	3.56	2.7	39.7	0.80	102.2	127.8	0.483	0.274	0.329	0.68	NonLiqfble.
CPT-5	16.37	6.2	22.1	0.78	125	2194	1556	24.5	27.0	3.71	2.7	41.2	0.80	98.0	122.6	0.484	0.251	0.301	0.62	NonLiqfble.
CPT-5	16.45	6.2	18.9	0.82	125	2204	1561	20.9	22.8	4.61	2.8	47.7	0.80	83.7	104.6	0.485	0.187	0.224	0.46	NonLiqfble.
CPT-5	16.54	6.2	18	0.94	135	2215	1567	19.9	21.6	5.56	2.9	52.2	0.80	79.6	99.5	0.485	0.172	0.206	0.42	NonLiqfble.
CPT-5	16.63	6.2	19.7	1.18	135	2227	1573	21.7	23.6	6.35	2.9	52.8	0.80	86.9	108.6	0.486	0.199	0.239	0.49	NonLiqfble.
CPT-5	16.71	6.2	23.8	1.44	135	2238	1579	26.2	28.7	6.35	2.9	49.1	0.80	104.8	131.0	0.487	0.289	0.347	0.71	NonLiqfble.
CPT-5	16.79	6.2	30.6	1.83	135	2249	1585	33.6	37.2	6.21	2.8	44.2	0.80	134.5	168.1	0.487	0.522	0.627	1.29	NonLiqfble.
CPT-5	16.87	6.2	39.5	2.26	135	2260	1591	43.3	48.2	5.89	2.7	39.1	0.80	173.3	216.7	0.488	1.026	1.231	2.52	NonLiqfble.
CPT-5	16.95	6.2	49.6	2.42	135	2271	1597	54.3	60.7	4.99	2.6	33.2	0.75	165.2	219.5	0.488	1.063	1.276	2.61	NonLiqfble.
CPT-5	17.03	6.2	53.5	2.33	135	2281	1603	58.5	65.3	4.45	2.5	30.5	0.68	124.8	183.2	0.489	0.652	0.783	1.60	NonLiqfble.
CPT-5	17.12	6.2	41.7	2.16	135	2294	1609	45.5	50.4	5.33	2.6	36.8	0.80	181.9	227.4	0.489	1.174	1.409	2.88	NonLiqfble.
CPT-5	17.2	6.2	36.1	2.05	135	2304	1615	39.3	43.3	5.87	2.7	40.7	0.80	157.2</						

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{IN}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	ΔQ _{IN}	(Q _{IN}) _s	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	18.01	6.2	26.8	1.45	135	2414	1674	28.7	30.6	5.67	2.8	45.9	0.80	114.7	143.3	0.495	0.354	0.424	0.86	NonLiqfble.
CPT-5	18.09	6.2	28.3	1.43	135	2425	1679	30.2	32.2	5.28	2.8	43.8	0.80	120.9	151.1	0.496	0.401	0.481	0.97	NonLiqfble.
CPT-5	18.18	6.2	28.9	1.43	135	2437	1686	30.8	32.8	5.17	2.7	43.1	0.80	123.2	154.0	0.496	0.419	0.503	1.01	NonLiqfble.
CPT-5	18.25	6.2	28.8	1.42	135	2446	1691	30.6	32.6	5.15	2.7	43.1	0.80	122.6	153.2	0.497	0.414	0.497	1.00	NonLiqfble.
CPT-5	18.34	6.2	28.1	1.39	135	2458	1698	29.8	31.6	5.17	2.8	43.7	0.80	119.4	149.2	0.497	0.389	0.467	0.94	NonLiqfble.
CPT-5	18.42	6.2	27.9	1.32	135	2469	1703	29.6	31.3	4.95	2.8	43.2	0.80	118.3	147.9	0.498	0.381	0.457	0.92	NonLiqfble.
CPT-5	18.5	6.2	27.2	1.37	135	2480	1709	28.8	30.4	5.28	2.8	44.8	0.80	115.1	143.9	0.498	0.357	0.429	0.86	NonLiqfble.
CPT-5	18.57	6.2	26.6	1.35	135	2489	1714	28.1	29.6	5.32	2.8	45.4	0.80	112.4	140.5	0.499	0.338	0.406	0.81	NonLiqfble.
CPT-5	18.62	6.2	27.2	1.34	135	2496	1718	28.7	30.2	5.16	2.8	44.5	0.80	114.9	143.6	0.499	0.355	0.426	0.85	NonLiqfble.
CPT-5	18.73	6.2	28.5	1.3	135	2511	1726	30.0	31.6	4.77	2.7	42.4	0.80	120.1	150.1	0.500	0.394	0.473	0.95	NonLiqfble.
CPT-5	18.81	6.2	30.7	1.32	135	2522	1732	32.3	34.0	4.48	2.7	40.2	0.80	129.1	161.4	0.500	0.471	0.565	1.13	NonLiqfble.
CPT-5	18.89	6.2	31.4	1.38	135	2533	1738	33.0	34.7	4.58	2.7	40.2	0.80	131.8	164.8	0.500	0.496	0.595	1.19	NonLiqfble.
CPT-5	18.97	6.2	31.7	1.45	135	2543	1743	33.2	34.9	4.77	2.7	40.7	0.80	132.9	166.1	0.501	0.506	0.607	1.21	NonLiqfble.
CPT-5	19.05	6.2	33.3	1.56	135	2554	1749	34.8	36.6	4.87	2.7	40.3	0.80	139.3	174.2	0.501	0.571	0.686	1.37	NonLiqfble.
CPT-5	19.13	6.2	34.1	1.65	135	2565	1755	35.6	37.4	5.03	2.7	40.5	0.80	142.5	178.1	0.502	0.605	0.726	1.45	NonLiqfble.
CPT-5	19.21	6.2	35.6	1.73	135	2576	1761	37.1	39.0	5.04	2.7	39.9	0.80	148.5	185.6	0.502	0.675	0.810	1.61	NonLiqfble.
CPT-5	19.29	6.2	37	1.82	135	2587	1767	38.5	40.4	5.10	2.7	39.4	0.80	154.1	192.6	0.503	0.744	0.893	1.78	NonLiqfble.
CPT-5	19.38	6.2	39	1.92	135	2599	1773	40.5	42.5	5.09	2.7	38.6	0.80	162.1	202.6	0.503	0.854	1.024	2.04	NonLiqfble.
CPT-5	19.46	6.2	40.9	1.98	135	2610	1779	42.4	44.5	5.00	2.6	37.6	0.80	169.7	212.1	0.504	0.968	1.161	2.31	NonLiqfble.
CPT-5	19.54	6.2	41.3	1.98	135	2620	1785	42.8	44.8	4.95	2.6	37.4	0.80	171.1	213.9	0.504	0.990	1.188	2.36	NonLiqfble.
CPT-5	19.62	6.2	41.3	2	135	2631	1791	42.7	44.6	5.00	2.6	37.6	0.80	170.8	213.5	0.505	0.985	1.182	2.34	NonLiqfble.
CPT-5	19.7	6.2	41.4	1.99	135	2642	1796	42.7	44.6	4.97	2.6	37.5	0.80	171.0	213.7	0.505	0.987	1.185	2.35	NonLiqfble.
CPT-5	19.78	6.2	42.2	1.9	135	2653	1802	43.5	45.3	4.65	2.6	36.2	0.80	174.0	217.5	0.505	1.036	1.244	2.46	NonLiqfble.
CPT-5	19.86	6.2	40.4	1.77	135	2664	1808	41.6	43.2	4.53	2.6	36.5	0.80	166.3	207.9	0.506	0.915	1.098	2.17	NonLiqfble.
CPT-5	19.94	6.2	39.2	1.72	135	2674	1814	40.3	41.7	4.54	2.6	37.1	0.80	161.1	201.4	0.506	0.839	1.007	1.99	NonLiqfble.
CPT-5	20.02	6.2	38.5	1.85	135	2685	1820	39.5	40.8	4.98	2.7	38.9	0.80	158.0	197.5	0.496	0.796	0.955	1.92	NonLiqfble.
CPT-5	20.1	6.2	42	2.11	135	2696	1825	43.0	44.5	5.19	2.7	38.2	0.80	172.0	215.1	0.497	1.005	1.206	2.43	NonLiqfble.
CPT-5	20.18	6.2	48.8	2.42	135	2707	1831	49.9	51.8	5.10	2.6	35.7	0.80	199.6	249.5	0.497	1.524	1.829	3.68	NonLiqfble.
CPT-5	20.26	6.2	51.2	2.72	135	2718	1837	52.3	54.2	5.46	2.6	36.1	0.80	209.1	261.3	0.498	1.740	2.088	4.20	NonLiqfble.
CPT-5	20.34	6.2	51.7	3.14	135	2728	1843	52.7	54.6	6.24	2.7	38.2	0.80	210.8	263.5	0.498	1.781	2.137	4.29	NonLiqfble.
CPT-5	20.42	6.2	60.1	3.54	135	2739	1849	61.2	63.5	6.03	2.6	35.5	0.80	244.6	305.8	0.498	2.739	3.287	6.60	NonLiqfble.
CPT-5	20.5	6.2	66.2	3.78	135	2750	1854	67.3	69.9	5.83	2.6	33.7	0.77	221.7	289.0	0.499	2.324	2.789	5.59	NonLiqfble.
CPT-5	20.58	6.2	64.5	3.97	135	2761	1860	65.4	67.8	6.29	2.6	35.4	0.80	261.7	327.2	0.499	3.337	4.004	8.02	NonLiqfble.
CPT-5	20.66	6.2	53.8	3.9	135	2772	1866	54.5	56.2	7.44	2.7	40.9	0.80	218.0	272.5	0.500	1.961	2.353	4.71	NonLiqfble.
CPT-5	20.74	6.2	45.5	3.59	135	2782	1872	46.0	47.1	8.14	2.8	45.3	0.80	184.1	230.1	0.500	1.213	1.455	2.91	NonLiqfble.
CPT-5	20.82	6.2	46.6	3.24	135	2793	1878	47.1	48.1	7.17	2.7	42.6	0.80	188.2	235.3	0.500	1.291	1.549	3.10	NonLiqfble.
CPT-5	20.89	6.2	49.4	2.84	135	2803	1883	49.8	51.0	5.92	2.7	38.4	0.80	199.3	249.1	0.501	1.517	1.820	3.64	NonLiqfble.
CPT-5	20.97	6.2	47.2	2.58	135	2813	1889	47.5	48.5	5.63	2.7	38.3	0.80	190.1	237.6	0.501	1.328	1.593	3.18	NonLiqfble.
CPT-5	21.05	6.2	41.7	2.51	135	2824	1894	41.9	42.5	6.23	2.7	42.0	0.80	167.7	209.6	0.501	0.936	1.124	2.24	NonLiqfble.
CPT-5	21.13	6.2	39.6	2.59	135	2835	1900	39.7	40.2	6.78	2.8	44.5	0.80	159.0	198.7	0.502	0.810	0.972	1.94	NonLiqfble.
CPT-5	21.21	6.2	43.8	2.9	135	2846	1906	43.9	44.4	6.84	2.7	43.0	0.80	175.6	219.5	0.502	1.063	1.276	2.54	NonLiqfble.
CPT-5	21.28	6.2	46.3	3.1	135	2855	1911	46.3	46.9	6.91	2.7	42.3	0.80	185.4	231.7	0.502	1.237	1.484	2.95	NonLiqfble.
CPT-5	21.36	6.2	46.2	3.1	135	2866	1917	46.2	46.7	6.92	2.7	42.4	0.80	184.7	230.8	0.503	1.224	1.469	2.92	NonLiqfble.
CPT-5	21.44	6.2	48.1	2.88	135	2877	1923	48.0	48.5	6.17	2.7	39.8	0.80	192.0	240.0	0.503	1.365	1.638	3.26	NonLiqfble.
CPT-5	21.52	6.2	50.7	2.64	135	2888	1929	50.5	51.1	5.36	2.6	36.7	0.80	202.1	252.6	0.504	1.578	1.894	3.76	NonLiqfble.
CPT-5	21.6	6.2	55.4	2.36	135	2898	1934	55.1	55.8	4.37	2.5	32.3	0.73	149.1	204.2	0.504	0.872	1.046	2.08	NonLiqfble.
CPT-5	21.67	6.2	59.7	1.85	135	2908	1939	59.3	60.0	3.18	2.4	27.0	0.59	84.2	143.5	0.504	0.355	0.426	0.84	Liquefaction
CPT-5	21.75	6.2	64.6	1.62	135	2919	1945	64.1	64.9	2.57	2.3	23.4	0.49	62.1	126.2	0.505	0.267	0.320	0.63	Liquefaction
CPT-5	21.83	6.2	72.4	1.6	135	2929	1951	71.7	72.7	2.26	2.3	20.7	0.42	51.8	123.6	0.505	0.255	0.307	0.61	Liquefaction
CPT-5	21.9	6.2	80.5	1.68	135	2939	1956	79.6	80.8	2.13	2.2	19.0	0.37	47.4	127.0	0.505	0.271	0.325	0.64	Liquefaction
CPT-5	21.95	6.2	85.9	1.7	135	2946	1960	84.9	86.1	2.01	2.2	17.8	0.34	43.9	128.9	0.506	0.279	0.335	0.66	Liquefaction
CPT-5	22.03	6.2	88.8	1.69	135	2956	1966	87.6	88.8	1.94	2.1	17.1	0.32	41.8	129.4	0.506	0.281	0.338	0.67	Liquefaction
CPT-5	22.11	6.2	88.1	1.72	135	2967	1971	86.8	87.8	1.99	2.2	17.4	0.33	43.2	130.0	0.506	0.284	0.341	0.67	Liquefaction
CPT-5	22.18	6.2	82	1.77	135	2977	1976	80.7	81.4	2.20	2.2	19.2	0.38	49.5	130.2	0.507	0.285	0.342	0.68	Liquefaction
CPT-5	22.26	6.2	73	1.78	135	2987	1982	71.7	72.1	2.49	2.3	21.9	0.45	58.9	130.6	0.507	0.287	0.345	0.68	Liquefaction
CPT-5	22.33	6.2	57.8	1.73	135	2997	1987	56.7	56.6	3.07	2.4	27.3	0.60	83.4	140.2	0.507	0.336	0.403	0.80	Liquefaction
CPT-5	22.41	6.2	41.3	1.67	135	3008	1993	40.5	39.9	4.20	2.6	36.6	0.80	161.9	202.4	0.508	0.851	1.021	2.01	NonLiqfble.
CPT-5	22.49	6.2	27.9	1.51	135	3019	1999	27.3	26.4	5.72	2.8	48.8	0.80	109.2	136.5	0.508	0.317	0.380	0.75	NonLiqfble.
CPT-5	22.57	6.2	19.6	1.23	135	3029	2005	19.2	18.0	6.80	3.0	59.8	0.80	76.6	95.8	0.508	0.162	0.194	0.38	NonLiqfble.
CPT-5	22.64	6.2	14.9	0.92	125	3039	2010	14.5	13.3	6.88	3.1	67.0	0.80	58.2	72.7	0.509	0.116	0.139	0.27	NonLiqfble.
CPT-5	22.72	6.2	11.7	0.68	125	3049	2015	11.4	10.1	6.68	3.2	73.3	0.80	45.6	57.0	0.509	0.097	0.1		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{ns}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	KcPT	ΔQ_{ns}	$(Q_{ns})_s$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	23.49	6.2	9	0.19	105	3133	2051	8.7	7.2	2.56	3.1	63.7	0.80	34.8	43.5	0.514	0.088	0.105	0.20	NonLiqfble
CPT-5	23.56	6.2	8.9	0.21	105	3140	2054	8.6	7.1	2.87	3.1	66.1	0.80	34.4	43.0	0.514	0.087	0.105	0.20	NonLiqfble
CPT-5	23.64	6.2	8.5	0.22	105	3148	2057	8.2	6.7	3.18	3.2	69.4	0.80	32.8	41.0	0.515	0.086	0.104	0.20	NonLiqfble
CPT-5	23.72	6.2	8.3	0.26	105	3157	2060	8.0	6.5	3.87	3.2	74.0	0.80	32.0	40.0	0.515	0.086	0.103	0.20	NonLiqfble
CPT-5	23.8	6.2	8.7	0.32	115	3165	2064	8.4	6.9	4.50	3.2	75.4	0.80	33.5	41.9	0.516	0.087	0.104	0.20	NonLiqfble
CPT-5	23.88	6.2	9.9	0.4	115	3174	2068	9.5	8.0	4.81	3.2	72.5	0.80	38.1	47.6	0.516	0.090	0.108	0.21	NonLiqfble
CPT-5	23.96	6.2	10.5	0.5	125	3184	2072	10.1	8.6	5.61	3.2	73.8	0.80	40.4	50.5	0.517	0.092	0.110	0.21	NonLiqfble
CPT-5	24.03	6.2	12.1	0.54	125	3192	2077	11.6	10.1	5.14	3.1	67.8	0.80	46.5	58.1	0.517	0.098	0.118	0.23	NonLiqfble
CPT-5	24.11	6.2	14.7	0.53	125	3202	2082	14.1	12.6	4.05	3.0	58.0	0.80	56.4	70.5	0.517	0.113	0.135	0.26	NonLiqfble
CPT-5	24.19	6.2	16.8	0.5	125	3212	2087	16.1	14.6	3.29	2.9	51.2	0.80	64.4	80.5	0.518	0.128	0.154	0.30	NonLiqfble
CPT-5	24.27	6.2	17.1	0.49	125	3222	2092	16.4	14.8	3.16	2.9	50.3	0.80	65.4	81.8	0.518	0.131	0.157	0.30	NonLiqfble
CPT-5	24.35	6.2	14.8	0.51	125	3232	2097	14.1	12.6	3.87	3.0	57.2	0.80	56.6	70.7	0.519	0.113	0.135	0.26	NonLiqfble
CPT-5	24.43	6.2	11.8	0.56	125	3242	2102	11.3	9.7	5.50	3.2	70.3	0.80	45.0	56.3	0.519	0.097	0.116	0.22	NonLiqfble
CPT-5	24.51	6.2	10.1	0.64	125	3252	2107	9.6	8.0	7.55	3.3	82.2	0.80	38.5	48.1	0.519	0.090	0.108	0.21	NonLiqfble
CPT-5	24.59	6.2	11.5	0.68	125	3262	2112	10.9	9.3	6.89	3.2	76.0	0.80	43.8	54.7	0.520	0.095	0.114	0.22	NonLiqfble
CPT-5	24.68	6.2	13.7	0.73	125	3274	2117	13.0	11.4	6.05	3.1	68.1	0.80	52.1	65.1	0.520	0.106	0.127	0.24	NonLiqfble
CPT-5	24.75	6.2	13.5	0.83	125	3282	2122	12.8	11.2	7.00	3.2	71.7	0.80	51.3	64.1	0.520	0.105	0.125	0.24	NonLiqfble
CPT-5	24.83	6.2	14.6	0.92	125	3292	2127	13.9	12.2	7.10	3.2	69.8	0.80	55.4	69.3	0.521	0.111	0.133	0.26	NonLiqfble
CPT-5	24.92	6.2	15.1	1.25	135	3304	2132	14.3	12.6	9.30	3.2	75.0	0.80	57.2	71.5	0.521	0.114	0.137	0.26	NonLiqfble
CPT-5	25	6.2	15.6	1.26	135	3314	2138	14.8	13.0	9.04	3.2	73.5	0.80	59.0	73.8	0.521	0.117	0.141	0.27	NonLiqfble
CPT-5	25.07	6.2	15.3	1.27	135	3324	2143	14.5	12.7	9.31	3.2	74.8	0.80	57.8	72.3	0.522	0.115	0.138	0.26	NonLiqfble
CPT-5	25.15	6.2	15.5	1.26	135	3335	2149	14.6	12.9	9.11	3.2	74.0	0.80	58.5	73.1	0.522	0.116	0.140	0.27	NonLiqfble
CPT-5	25.2	6.2	19.5	1.22	135	3341	2153	18.4	16.6	6.84	3.0	61.8	0.80	73.6	91.9	0.522	0.152	0.183	0.35	NonLiqfble
CPT-5	25.28	6.2	18.2	1.16	135	3352	2158	17.1	15.3	7.02	3.1	64.1	0.80	68.6	85.7	0.522	0.139	0.166	0.32	NonLiqfble
CPT-5	25.36	6.2	16.7	1.12	135	3363	2164	15.7	13.9	7.46	3.1	67.7	0.80	62.8	78.5	0.523	0.125	0.150	0.29	NonLiqfble
CPT-5	25.44	6.2	15.4	1.08	135	3374	2170	14.5	12.6	7.88	3.2	71.2	0.80	57.9	72.3	0.523	0.115	0.138	0.26	NonLiqfble
CPT-5	25.52	6.2	14.3	1.04	125	3385	2176	13.4	11.6	8.25	3.2	74.4	0.80	53.7	67.1	0.523	0.108	0.130	0.25	NonLiqfble
CPT-5	25.6	6.2	14.1	0.99	125	3395	2181	13.2	11.4	7.98	3.2	74.1	0.80	52.8	66.1	0.524	0.107	0.128	0.24	NonLiqfble
CPT-5	25.68	6.2	13.4	0.93	125	3405	2186	12.5	10.7	7.95	3.2	75.6	0.80	50.2	62.7	0.524	0.103	0.124	0.24	NonLiqfble
CPT-5	25.76	6.2	13.3	0.85	125	3415	2191	12.4	10.6	7.33	3.2	74.1	0.80	49.7	62.2	0.524	0.102	0.123	0.23	NonLiqfble
CPT-5	25.84	6.2	12.5	0.78	125	3425	2196	11.7	9.8	7.23	3.2	75.7	0.80	46.7	58.4	0.525	0.098	0.118	0.23	NonLiqfble
CPT-5	25.92	6.2	12.2	0.73	125	3435	2201	11.4	9.5	6.96	3.2	75.7	0.80	45.5	56.9	0.525	0.097	0.117	0.22	NonLiqfble
CPT-5	26	6.2	11.4	0.7	125	3445	2206	10.6	8.8	7.23	3.3	78.8	0.80	42.5	53.1	0.525	0.094	0.113	0.21	NonLiqfble
CPT-5	26.08	6.2	10.8	0.67	125	3455	2211	10.0	8.2	7.39	3.3	81.1	0.80	40.2	50.2	0.526	0.092	0.110	0.21	NonLiqfble
CPT-5	26.16	6.2	11.3	0.65	125	3465	2216	10.5	8.6	6.79	3.3	77.8	0.80	42.0	52.5	0.526	0.093	0.112	0.21	NonLiqfble
CPT-5	26.24	6.2	10.9	0.64	125	3475	2221	10.1	8.2	6.99	3.3	79.7	0.80	40.5	50.6	0.526	0.092	0.110	0.21	NonLiqfble
CPT-5	26.32	6.2	10.9	0.63	125	3485	2226	10.1	8.2	6.88	3.3	79.4	0.80	40.4	50.5	0.527	0.092	0.110	0.21	NonLiqfble
CPT-5	26.4	6.2	10.7	0.62	125	3495	2231	9.9	8.0	6.93	3.3	80.3	0.80	39.6	49.6	0.527	0.091	0.110	0.21	NonLiqfble
CPT-5	26.48	6.2	11	0.63	125	3505	2236	10.2	8.3	6.81	3.3	79.1	0.80	40.7	50.9	0.527	0.092	0.111	0.21	NonLiqfble
CPT-5	26.56	6.2	11	0.64	125	3515	2241	10.2	8.2	6.92	3.3	79.5	0.80	40.7	50.8	0.527	0.092	0.111	0.21	NonLiqfble
CPT-5	26.64	6.2	11.3	0.64	125	3525	2246	10.4	8.5	6.71	3.3	78.0	0.80	41.7	52.2	0.528	0.093	0.112	0.21	NonLiqfble
CPT-5	26.72	6.2	11.7	0.65	125	3535	2251	10.8	8.8	6.54	3.2	76.4	0.80	43.2	53.9	0.528	0.095	0.114	0.21	NonLiqfble
CPT-5	26.8	6.2	11.9	0.67	125	3545	2256	11.0	9.0	6.62	3.2	76.2	0.80	43.8	54.8	0.528	0.095	0.114	0.22	NonLiqfble
CPT-5	26.88	6.2	12.4	0.7	125	3555	2261	11.4	9.4	6.59	3.2	74.9	0.80	45.6	57.0	0.529	0.097	0.117	0.22	NonLiqfble
CPT-5	26.96	6.2	12.7	0.72	125	3565	2266	11.7	9.6	6.60	3.2	74.2	0.80	46.7	58.4	0.529	0.098	0.118	0.22	NonLiqfble
CPT-5	27.04	6.2	12.9	0.74	125	3575	2271	11.8	9.8	6.66	3.2	74.0	0.80	47.4	59.2	0.529	0.099	0.119	0.23	NonLiqfble
CPT-5	27.12	6.2	12.6	0.74	125	3585	2276	11.6	9.5	6.85	3.2	75.4	0.80	46.2	57.8	0.530	0.098	0.118	0.22	NonLiqfble
CPT-5	27.2	6.2	12.8	0.74	125	3595	2281	11.7	9.6	6.73	3.2	74.6	0.80	46.9	58.6	0.530	0.099	0.118	0.22	NonLiqfble
CPT-5	27.28	6.2	12.8	0.74	125	3605	2286	11.7	9.6	6.73	3.2	74.7	0.80	46.9	58.6	0.530	0.099	0.118	0.22	NonLiqfble
CPT-5	27.35	6.2	13.3	0.74	125	3613	2290	12.2	10.0	6.44	3.2	72.6	0.80	48.6	60.8	0.531	0.101	0.121	0.23	NonLiqfble
CPT-5	27.44	6.2	13	0.74	125	3625	2296	11.9	9.7	6.61	3.2	74.0	0.80	47.5	59.4	0.531	0.099	0.119	0.22	NonLiqfble
CPT-5	27.52	6.2	13.5	0.74	125	3635	2301	12.3	10.1	6.33	3.2	72.0	0.80	49.3	61.6	0.531	0.102	0.122	0.23	NonLiqfble
CPT-5	27.59	6.2	13.3	0.72	125	3643	2305	12.1	10.0	6.27	3.2	72.3	0.80	48.5	60.6	0.532	0.101	0.121	0.23	NonLiqfble
CPT-5	27.68	6.2	12.8	0.7	125	3655	2311	11.6	9.5	6.38	3.2	73.9	0.80	46.6	58.2	0.532	0.098	0.118	0.22	NonLiqfble
CPT-5	27.75	6.2	12.5	0.66	125	3663	2316	11.4	9.2	6.19	3.2	74.0	0.80	45.5	56.8	0.532	0.097	0.116	0.22	NonLiqfble
CPT-5	27.83	6.2	11.8	0.61	125	3673	2321	10.7	8.6	6.12	3.2	75.7	0.80	42.9	53.6	0.532	0.094	0.113	0.21	NonLiqfble
CPT-5	27.91	6.2	11.3	0.58	125	3683	2326	10.3	8.1	6.13	3.3	77.2	0.80	41.0	51.3	0.533	0.093	0.111	0.21	NonLiqfble
CPT-5	27.99	6.2	11.7	0.56	125	3693	2331	10.6	8.5	5.68	3.2	74.5	0.80	42.4	53.0	0.533	0.094	0.113	0.21	NonLiqfble
CPT-5	28.07	6.2	11.7	0.55	125	3703	2336	10.6	8.4	5.59	3.2	74.2	0.80	42.4	53.0	0.533	0.094	0.113	0.21	NonLiqfble
CPT-5	28.16	6.2	11.6	0.57	125	3715	2341	10.5	8.3	5.85	3.2	75.6	0.80	42.0	52.4	0.534	0.093	0.112	0.21	NonLiqfble
CPT-5	28.24	6.2	11.1	0.57	125	3725	2346	10.0	7.9	6.17	3.3	78.3	0.80	40.1	50.1	0.534	0.092	0.110	0.21	NonLiqfble
CPT-5	28.31	6.2	11.1	0.56	125	3733	2351	10.0	7.9	6.07	3.									

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{HN}	Corr. Tip Q	Friction Ratio F	i_c	F.C. (%)	K_{CPT}	ΔQ_{HN}	$(Q_{HN})_{cr}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	29.04	6.2	21.6	0.93	135	3825	2396	19.3	16.4	4.72	2.9	54.8	0.80	77.2	96.5	0.537	0.164	0.196	0.37	NonLiqfble.
CPT-5	29.12	6.2	23.2	1.03	135	3835	2402	20.7	17.7	4.84	2.9	53.7	0.80	82.8	103.6	0.537	0.183	0.220	0.41	NonLiqfble.
CPT-5	29.2	6.2	22.4	1.12	135	3846	2408	20.0	17.0	5.47	3.0	56.8	0.80	79.9	99.9	0.537	0.173	0.207	0.39	NonLiqfble.
CPT-5	29.28	6.2	22.3	1.12	135	3857	2414	19.9	16.9	5.50	3.0	57.1	0.80	79.4	99.3	0.537	0.171	0.205	0.38	NonLiqfble.
CPT-5	29.36	6.2	20.3	1.09	135	3868	2419	18.1	15.2	5.94	3.0	60.9	0.80	72.2	90.3	0.538	0.148	0.178	0.33	NonLiqfble.
CPT-5	29.44	6.2	17.6	1.03	135	3879	2425	15.6	12.9	6.58	3.1	66.8	0.80	62.5	78.2	0.538	0.124	0.149	0.28	NonLiqfble.
CPT-5	29.52	6.2	14.7	0.93	125	3889	2431	13.0	10.5	7.29	3.2	74.2	0.80	52.2	65.2	0.538	0.106	0.127	0.24	NonLiqfble.
CPT-5	29.6	6.2	12.9	0.83	125	3899	2436	11.4	9.0	7.58	3.3	79.2	0.80	45.7	57.2	0.538	0.097	0.117	0.22	NonLiqfble.
CPT-5	29.68	6.2	13.5	0.72	125	3909	2441	12.0	9.5	6.24	3.2	73.5	0.80	47.8	59.8	0.539	0.100	0.120	0.22	NonLiqfble.
CPT-5	29.76	6.2	13.8	0.62	125	3919	2446	12.2	9.7	5.24	3.2	69.3	0.80	48.8	61.0	0.539	0.101	0.121	0.23	NonLiqfble.
CPT-5	29.84	6.2	12.8	0.56	125	3929	2451	11.3	8.8	5.17	3.2	71.4	0.80	45.2	56.6	0.539	0.097	0.116	0.22	NonLiqfble.
CPT-5	29.92	6.2	11.8	0.53	125	3939	2456	10.4	8.0	5.39	3.2	74.9	0.80	41.7	52.1	0.539	0.093	0.112	0.21	NonLiqfble.
CPT-5	30	6.2	11.5	0.51	125	3949	2461	10.1	7.7	5.35	3.2	75.7	0.80	40.6	50.7	0.517	0.092	0.111	0.21	NonLiqfble.
CPT-5	30.07	6.2	11	0.5	125	3958	2466	9.7	7.3	5.54	3.3	78.0	0.80	38.8	48.5	0.517	0.091	0.109	0.21	NonLiqfble.
CPT-5	30.15	6.2	11.2	0.49	125	3968	2471	9.9	7.5	5.32	3.2	76.6	0.80	39.4	49.3	0.518	0.091	0.109	0.21	NonLiqfble.
CPT-5	30.24	6.2	10.9	0.48	125	3979	2476	9.6	7.2	5.39	3.3	77.9	0.80	38.3	47.9	0.518	0.090	0.108	0.21	NonLiqfble.
CPT-5	30.31	6.2	10.7	0.47	125	3988	2481	9.4	7.0	5.40	3.3	78.6	0.80	37.6	47.0	0.518	0.090	0.108	0.21	NonLiqfble.
CPT-5	30.39	6.2	11	0.48	125	3998	2486	9.7	7.2	5.33	3.3	77.5	0.80	38.6	48.3	0.518	0.090	0.109	0.21	NonLiqfble.
CPT-5	30.47	6.2	11.4	0.49	125	4008	2491	10.0	7.5	5.22	3.2	75.9	0.80	40.0	50.0	0.519	0.092	0.110	0.21	NonLiqfble.
CPT-5	30.55	6.2	11	0.49	125	4018	2496	9.6	7.2	5.45	3.3	78.1	0.80	38.5	48.2	0.519	0.090	0.108	0.21	NonLiqfble.
CPT-5	30.63	6.2	11.2	0.5	125	4028	2501	9.8	7.3	5.44	3.3	77.5	0.80	39.2	49.0	0.519	0.091	0.109	0.21	NonLiqfble.
CPT-5	30.71	6.2	11.1	0.5	125	4038	2506	9.7	7.2	5.51	3.3	78.1	0.80	38.8	48.5	0.519	0.091	0.109	0.21	NonLiqfble.
CPT-5	30.79	6.2	11.4	0.49	125	4048	2511	10.0	7.5	5.23	3.2	76.2	0.80	39.8	49.8	0.520	0.091	0.110	0.21	NonLiqfble.
CPT-5	30.86	6.2	11.1	0.48	125	4057	2515	9.7	7.2	5.29	3.3	77.4	0.80	38.7	48.4	0.520	0.091	0.109	0.21	NonLiqfble.
CPT-5	30.94	6.2	11.4	0.49	125	4067	2520	9.9	7.4	5.23	3.2	76.3	0.80	39.7	49.7	0.520	0.091	0.110	0.21	NonLiqfble.
CPT-5	31.02	6.2	11.8	0.5	125	4077	2525	10.3	7.7	5.12	3.2	74.8	0.80	41.1	51.4	0.520	0.093	0.111	0.21	NonLiqfble.
CPT-5	31.1	6.2	11.8	0.51	125	4087	2530	10.3	7.7	5.23	3.2	75.3	0.80	41.1	51.3	0.521	0.093	0.111	0.21	NonLiqfble.
CPT-5	31.18	6.2	12.2	0.53	125	4097	2535	10.6	8.0	5.22	3.2	74.2	0.80	42.4	53.0	0.521	0.094	0.113	0.22	NonLiqfble.
CPT-5	31.26	6.2	12	0.53	125	4107	2540	10.4	7.8	5.33	3.2	75.3	0.80	41.7	52.1	0.521	0.093	0.112	0.21	NonLiqfble.
CPT-5	31.34	6.2	12	0.52	125	4117	2545	10.4	7.8	5.23	3.2	75.0	0.80	41.6	52.0	0.521	0.093	0.112	0.21	NonLiqfble.
CPT-5	31.41	6.2	11.6	0.5	125	4126	2549	10.1	7.5	5.24	3.2	76.2	0.80	40.2	50.3	0.522	0.092	0.110	0.21	NonLiqfble.
CPT-5	31.49	6.2	11.7	0.49	125	4136	2554	10.1	7.5	5.09	3.2	75.4	0.80	40.5	50.6	0.522	0.092	0.110	0.21	NonLiqfble.
CPT-5	31.57	6.2	11.5	0.48	125	4146	2559	9.9	7.4	5.09	3.2	76.0	0.80	39.8	49.7	0.522	0.091	0.110	0.21	NonLiqfble.
CPT-5	31.65	6.2	11.1	0.47	125	4156	2564	9.6	7.0	5.21	3.3	77.8	0.80	38.4	48.0	0.522	0.090	0.108	0.21	NonLiqfble.
CPT-5	31.72	6.2	11.2	0.45	125	4164	2569	9.7	7.1	4.94	3.2	76.4	0.80	38.7	48.3	0.523	0.091	0.109	0.21	NonLiqfble.
CPT-5	31.81	6.2	11.7	0.44	125	4176	2574	10.1	7.5	4.58	3.2	73.5	0.80	40.4	50.4	0.523	0.092	0.110	0.21	NonLiqfble.
CPT-5	31.88	6.2	11.7	0.43	115	4184	2579	10.1	7.4	4.48	3.2	73.1	0.80	40.3	50.4	0.523	0.092	0.110	0.21	NonLiqfble.
CPT-5	31.96	6.2	11.6	0.43	115	4194	2583	10.0	7.4	4.53	3.2	73.7	0.80	39.9	49.9	0.523	0.092	0.110	0.21	NonLiqfble.
CPT-5	32.04	6.2	12	0.44	125	4203	2587	10.3	7.6	4.45	3.2	72.3	0.80	41.3	51.6	0.524	0.093	0.111	0.21	NonLiqfble.
CPT-5	32.12	6.2	12.7	0.45	125	4213	2592	10.9	8.2	4.25	3.2	69.6	0.80	43.7	54.6	0.524	0.095	0.114	0.22	NonLiqfble.
CPT-5	32.2	6.2	12.1	0.49	125	4223	2597	10.4	7.7	4.91	3.2	74.1	0.80	41.6	51.9	0.524	0.093	0.112	0.21	NonLiqfble.
CPT-5	32.28	6.2	12.5	0.57	125	4233	2602	10.7	8.0	5.49	3.2	75.4	0.80	42.9	53.6	0.524	0.094	0.113	0.22	NonLiqfble.
CPT-5	32.36	6.2	13	0.95	125	4243	2607	11.1	8.3	8.73	3.3	84.6	0.80	44.6	55.7	0.525	0.096	0.115	0.22	NonLiqfble.
CPT-5	32.44	6.2	25	1.54	135	4253	2612	21.4	17.5	6.73	3.0	60.2	0.80	85.6	107.0	0.525	0.194	0.233	0.44	NonLiqfble.
CPT-5	32.52	6.2	43.6	2.01	135	4264	2618	37.3	31.7	4.85	2.7	42.6	0.80	149.1	186.4	0.525	0.682	0.819	1.56	NonLiqfble.
CPT-5	32.6	6.2	67.6	2.42	135	4274	2624	57.7	49.9	3.70	2.5	31.5	0.71	139.0	196.7	0.525	0.788	0.946	1.80	
CPT-5	32.68	6.2	71.6	2.95	135	4285	2630	61.1	52.8	4.25	2.5	32.7	0.74	172.5	233.6	0.525	1.266	1.519	2.89	
CPT-5	32.76	6.2	65.4	2.91	135	4296	2636	55.7	48.0	4.60	2.6	35.2	0.80	223.0	278.7	0.525	2.093	2.512	4.78	
CPT-5	32.83	6.2	65.9	2.6	135	4305	2641	56.1	48.3	4.08	2.6	33.3	0.76	174.3	230.4	0.526	1.217	1.461	2.78	
CPT-5	32.91	6.2	63.3	2.39	135	4316	2646	53.8	46.2	3.91	2.6	33.3	0.76	167.5	221.3	0.526	1.089	1.306	2.48	
CPT-5	32.99	6.2	120.5	2	135	4327	2652	102.4	89.2	1.69	2.1	15.8	0.29	41.4	143.7	0.526	0.356	0.427	0.81	Liquefaction
CPT-5	33.06	6.2	192.2	2.12	125	4337	2657	163.1	143.0	1.12	1.8	8.7	0.10	17.8	181.0	0.526	0.631	0.757	1.44	
CPT-5	33.13	6.2	231.9	2.28	125	4345	2662	196.7	172.5	0.99	1.7	6.7	0.05	9.6	206.2	0.526	0.896	1.075	2.04	
CPT-5	33.21	6.2	274.1	2.86	125	4355	2667	232.2	203.9	1.05	1.7	6.1	0.03	7.1	239.4	0.526	1.355	1.627	3.09	
CPT-5	33.28	6.2	283.7	3.57	135	4364	2671	240.2	210.7	1.27	1.8	7.1	0.06	14.3	254.4	0.527	1.612	1.935	3.67	
CPT-5	33.35	6.2	295.2	3.77	135	4373	2676	249.7	218.9	1.29	1.7	7.0	0.05	13.9	263.6	0.527	1.784	2.140	4.06	
CPT-5	33.43	6.2	284.7	3.62	135	4384	2682	240.5	210.6	1.28	1.8	7.2	0.06	14.8	255.3	0.527	1.628	1.954	3.71	
CPT-5	33.5	6.2	292.3	4.69	135	4394	2687	246.7	215.8	1.62	1.8	8.7	0.10	26.8	273.5	0.527	1.983	2.379	4.51	
CPT-5	33.58	6.2	270.7	4.2	135	4405	2693	228.2	199.3	1.56	1.8	8.9	0.10	26.6	254.8	0.527	1.618	1.942	3.68	
CPT-5	33.65	6.2	262.3	3.85	135	4414	2698	221.0	192.7	1.48	1.8	8.7	0.10	24.3	245.2	0.527	1.451	1.741	3.30	
CPT-5	33.72	6.2	275.4	3.54	135	4423	2703	231.8	202.0	1.30	1.8	7.5	0.07	16.5	248.3	0.527	1.503	1.803	3.42	
CPT-5	33.8	6.2	261.2	3.12	135	4434	2709	219.6	191.1	1.20	1.8	7.3	0.06	14.6	234.2					

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{ns}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{ns}	$(Q_{ns})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	34.43	6.2	294.8	1.99	115	4510	2745	246.2	213.0	0.68	1.6	3.6	0.00	0.0	246.2	0.530	1.467	1.761	3.33	
CPT-5	34.5	6.2	300.8	2.12	115	4518	2749	251.0	217.1	0.71	1.6	3.7	0.00	0.0	251.0	0.530	1.551	1.861	3.51	
CPT-5	34.57	6.2	314.1	2.43	125	4526	2753	261.9	226.5	0.78	1.6	4.0	0.00	0.0	261.9	0.530	1.751	2.102	3.97	
CPT-5	34.64	6.2	339.1	2.62	125	4535	2757	282.6	244.2	0.78	1.6	3.6	0.00	0.0	282.6	0.530	2.178	2.614	4.93	
CPT-5	34.71	6.2	364.5	3.1	125	4544	2762	303.5	262.2	0.86	1.6	3.7	0.00	0.0	303.5	0.530	2.680	3.216	6.06	
CPT-5	34.77	6.2	383.4	2.76	115	4551	2765	319.0	275.5	0.72	1.5	2.7	0.00	0.0	319.0	0.530	3.099	3.719	7.01	
CPT-5	34.84	6.2	381.2	3	125	4559	2769	317.0	273.6	0.79	1.5	3.2	0.00	0.0	317.0	0.531	3.042	3.650	6.88	
CPT-5	34.9	6.2	384.4	3.17	125	4567	2773	319.4	275.5	0.83	1.5	3.4	0.00	0.0	319.4	0.531	3.111	3.733	7.03	
CPT-5	34.96	6.2	397.8	3.9	125	4574	2776	330.3	284.8	0.99	1.6	4.1	0.00	0.0	330.3	0.531	3.432	4.118	7.76	
CPT-5	35.01	6.2	382	4.14	125	4580	2780	317.0	273.1	1.09	1.6	4.8	0.00	0.0	317.0	0.531	3.043	3.652	6.88	
CPT-5	35.07	6.2	400.4	4.06	125	4588	2783	332.1	285.9	1.02	1.6	4.2	0.00	0.0	332.1	0.531	3.485	4.182	7.87	
CPT-5	35.14	6.2	415	4.08	125	4597	2788	343.9	296.0	0.99	1.6	3.9	0.00	0.0	343.9	0.531	3.863	4.635	8.72	
CPT-5	35.21	6.2	417.4	3.97	125	4605	2792	345.6	297.2	0.96	1.6	3.7	0.00	0.0	345.6	0.532	3.920	4.704	8.85	
CPT-5	35.27	6.2	412.1	3.85	125	4613	2796	341.0	293.0	0.94	1.6	3.7	0.00	0.0	341.0	0.532	3.768	4.521	8.50	
CPT-5	35.34	6.2	401.2	4.05	125	4622	2800	331.7	284.8	1.02	1.6	4.2	0.00	0.0	331.7	0.532	3.475	4.170	7.84	
CPT-5	35.4	6.2	404	4.66	135	4629	2804	333.8	286.4	1.16	1.6	5.0	0.00	0.0	333.8	0.532	3.539	4.247	7.98	
CPT-5	35.47	6.2	408.7	4.94	135	4639	2809	337.4	289.2	1.22	1.6	5.2	0.01	1.8	339.2	0.532	3.709	4.451	8.36	
CPT-5	35.53	6.2	400.6	4.41	125	4647	2813	330.5	283.0	1.11	1.6	4.7	0.00	0.0	330.5	0.532	3.436	4.123	7.74	
CPT-5	35.6	6.2	369.8	4.04	125	4656	2818	304.8	260.7	1.10	1.6	5.1	0.00	0.8	305.6	0.532	3.734	3.281	6.16	
CPT-5	35.66	6.2	351.4	4.14	135	4663	2822	289.4	247.3	1.19	1.7	5.8	0.02	6.4	295.8	0.533	2.488	2.986	5.61	
CPT-5	35.73	6.2	351.7	4.55	135	4672	2827	289.4	247.1	1.30	1.7	6.4	0.04	11.3	300.7	0.533	2.609	3.131	5.88	
CPT-5	35.79	6.2	356	4.48	135	4681	2831	292.7	249.7	1.27	1.7	6.2	0.03	9.5	302.2	0.533	2.647	3.176	5.96	
CPT-5	35.86	6.2	363.4	4.32	135	4690	2836	298.6	254.5	1.20	1.7	5.7	0.02	5.8	304.4	0.533	2.703	3.244	6.09	
CPT-5	35.93	6.2	355.3	4.48	135	4699	2841	291.7	248.3	1.27	1.7	6.2	0.03	9.8	301.4	0.533	2.627	3.152	5.91	
CPT-5	35.99	6.2	319.4	4.69	135	4708	2846	262.0	222.7	1.48	1.8	7.8	0.08	21.5	283.4	0.533	2.198	2.637	4.95	
CPT-5	36.06	6.2	297.4	4.8	135	4717	2851	243.7	206.9	1.63	1.8	9.0	0.11	28.9	272.6	0.533	1.964	2.357	4.42	
CPT-5	36.12	6.2	286.2	4.81	135	4725	2855	234.4	198.8	1.69	1.9	9.5	0.12	32.3	266.6	0.533	1.843	2.211	4.15	
CPT-5	36.19	6.2	265.8	4.81	135	4735	2860	217.5	184.1	1.83	1.9	10.6	0.15	38.4	255.9	0.534	1.638	1.966	3.68	
CPT-5	36.25	6.2	262.2	4.8	135	4743	2864	214.4	181.3	1.85	1.9	10.8	0.16	39.5	253.8	0.534	1.601	1.921	3.60	
CPT-5	36.32	6.2	265	4.78	135	4752	2869	216.5	183.0	1.82	1.9	10.6	0.15	38.4	254.8	0.534	1.619	1.943	3.64	
CPT-5	36.38	6.2	267	4.76	135	4760	2874	217.9	184.1	1.80	1.9	10.5	0.15	37.5	255.5	0.534	1.630	1.957	3.66	
CPT-5	36.46	6.2	277.2	4.74	135	4771	2880	226.0	190.8	1.72	1.9	9.9	0.13	34.3	260.3	0.534	1.720	2.064	3.87	
CPT-5	36.76	6.2	295	3.53	135	4812	2901	239.6	201.6	1.21	1.7	7.0	0.05	13.7	253.4	0.535	1.592	1.911	3.57	
CPT-5	36.82	6.2	311.7	2.88	125	4820	2906	253.0	212.8	0.93	1.6	5.2	0.00	1.3	254.3	0.535	1.609	1.930	3.61	
CPT-5	36.86	6.2	316.7	2.68	125	4825	2908	256.9	216.0	0.85	1.6	4.6	0.00	0.0	256.9	0.535	1.658	1.989	3.72	
CPT-5	36.89	6.2	325.6	2.82	125	4828	2910	264.1	222.0	0.87	1.6	4.6	0.00	0.0	264.1	0.535	1.793	2.151	4.02	
CPT-5	36.94	6.2	338.3	2.63	125	4835	2913	274.2	230.5	0.78	1.6	3.9	0.00	0.0	274.2	0.535	1.998	2.398	4.48	
CPT-5	36.97	6.2	346.9	2.27	115	4838	2915	281.1	236.2	0.66	1.5	3.0	0.00	0.0	281.1	0.535	2.146	2.575	4.81	
CPT-5	37.01	6.2	354.6	2.18	115	4843	2917	287.3	241.3	0.62	1.5	2.6	0.00	0.0	287.3	0.535	2.284	2.741	5.12	
CPT-5	37.04	6.2	354.9	2.29	115	4846	2919	287.4	241.4	0.65	1.5	2.8	0.00	0.0	287.4	0.535	2.288	2.746	5.13	
CPT-5	37.08	6.2	350.5	2.23	115	4851	2921	283.8	238.2	0.64	1.5	2.8	0.00	0.0	283.8	0.535	2.205	2.646	4.94	
CPT-5	37.14	6.2	361.9	2.98	125	4858	2924	292.8	245.8	0.83	1.6	3.9	0.00	0.0	292.8	0.535	2.415	2.898	5.41	
CPT-5	37.21	6.2	357	3.47	125	4867	2929	288.6	242.0	0.98	1.6	4.8	0.00	0.0	288.6	0.536	2.316	2.780	5.19	
CPT-5	37.24	6.2	355.8	3.34	125	4870	2930	287.6	241.1	0.95	1.6	4.6	0.00	0.0	287.6	0.536	2.292	2.750	5.13	
CPT-5	37.28	6.2	342.7	3.16	125	4875	2933	276.9	231.9	0.93	1.6	4.7	0.00	0.0	276.9	0.536	2.054	2.465	4.60	
CPT-5	37.32	6.2	320.8	3.31	125	4880	2935	259.1	216.8	1.04	1.7	5.7	0.02	5.0	264.1	0.536	1.793	2.151	4.01	
CPT-5	37.36	6.2	324.7	3.31	125	4885	2938	262.1	219.3	1.03	1.7	5.6	0.02	4.1	266.2	0.536	1.835	2.202	4.11	
CPT-5	37.39	6.2	317.2	3.22	125	4889	2940	256.0	214.0	1.02	1.7	5.7	0.02	4.8	260.7	0.536	1.729	2.074	3.87	
CPT-5	37.42	6.2	294.6	3.14	125	4893	2942	237.7	198.5	1.07	1.7	6.4	0.04	9.2	246.8	0.536	1.479	1.774	3.31	
CPT-5	37.46	6.2	293.1	2.87	125	4898	2944	236.3	197.4	0.99	1.7	5.9	0.02	6.0	242.3	0.536	1.404	1.684	3.14	
CPT-5	37.5	6.2	295.8	2.6	125	4903	2947	238.4	199.0	0.89	1.7	5.3	0.01	1.8	240.2	0.536	1.369	1.642	3.06	
CPT-5	37.57	6.2	296.8	2.5	125	4912	2951	239.1	199.4	0.85	1.6	5.0	0.00	0.2	239.3	0.536	1.354	1.625	3.03	
CPT-5	37.63	6.2	308.2	1.83	115	4919	2955	248.1	206.9	0.60	1.5	3.2	0.00	0.0	248.1	0.537	1.500	1.800	3.35	
CPT-5	37.66	6.2	308.7	1.76	115	4923	2956	248.4	207.1	0.57	1.5	3.0	0.00	0.0	248.4	0.537	1.506	1.807	3.37	
CPT-5	37.72	6.2	308.8	1.74	115	4930	2960	248.4	206.9	0.57	1.5	3.0	0.00	0.0	248.4	0.537	1.505	1.806	3.36	
CPT-5	37.76	6.2	307.2	1.73	115	4934	2962	247.0	205.7	0.57	1.5	3.0	0.00	0.0	247.0	0.537	1.481	1.777	3.31	
CPT-5	37.79	6.2	304.9	1.73	115	4938	2963	245.1	204.0	0.57	1.5	3.1	0.00	0.0	245.1	0.537	1.449	1.739	3.24	
CPT-5	37.84	6.2	300.8	1.68	115	4943	2966	241.7	201.1	0.56	1.5	3.1	0.00	0.0	241.7	0.537	1.393	1.671	3.11	
CPT-5	37.88	6.2	302.8	1.51	105	4948	2968	243.2	202.3	0.50	1.5	2.6	0.00	0.0	243.2	0.537	1.418	1.701	3.17	
CPT-5	37.91	6.2	299.7	1.36	105	4951	2969	240.6	200.1	0.46	1.5	2.3	0.00	0.0	240.6	0.537	1.376	1.651	3.07	
CPT-5	37.96	6.2	299.1	1.38	105	4956	2971	240.1	199.6	0.47	1.5	2.4	0.00	0.0	240.1	0.538	1.367	1.640	3.05	
CPT-5	38.03	6.2	311.6	1.66	115	4964	2974	250.0	207.8	0.54	1.5	2.7	0.00	0.0	250.0	0.538	1.533	1.839	3.42	
CPT-5	38.09	6.2	315.7	1.72	115	4971	2977	2												

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{tip}	Corr. Tip Q	Friction Ratio F	Ic	F.C. (%)	K _{CPT}	Δq _{tip}	(q _{tip}) _{0.5}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	38.5	6.2	242.8	1.53	115	5019	3000	194.0	160.1	0.64	1.6	4.8	0.00	0.0	194.0	0.539	0.759	0.910	1.69	
CPT-5	38.54	6.2	234.6	1.38	115	5023	3002	187.3	154.6	0.59	1.6	4.7	0.00	0.0	187.3	0.539	0.692	0.830	1.54	
CPT-5	38.57	6.2	238.5	1.64	115	5027	3004	190.4	157.1	0.69	1.7	5.4	0.01	1.8	192.3	0.539	0.741	0.889	1.65	
CPT-5	38.62	6.2	233.9	1.89	125	5032	3006	186.7	153.9	0.82	1.7	6.3	0.04	6.8	193.5	0.540	0.754	0.905	1.68	
CPT-5	38.7	6.2	209.5	1.24	115	5042	3011	167.0	137.4	0.60	1.7	5.5	0.01	2.1	169.1	0.540	0.530	0.636	1.18	Low F.S.
CPT-5	38.77	6.2	196.7	1.32	115	5050	3015	156.7	128.8	0.68	1.7	6.5	0.04	6.5	163.3	0.540	0.485	0.582	1.08	Low F.S.
CPT-5	38.83	6.2	162.8	1.77	125	5057	3018	129.7	106.2	1.10	1.9	10.8	0.16	24.0	153.6	0.540	0.417	0.501	0.93	Liquefaction
CPT-5	38.9	6.2	111.1	2.49	135	5066	3022	88.4	71.8	2.29	2.3	21.0	0.43	66.1	154.6	0.540	0.423	0.508	0.94	Liquefaction
CPT-5	38.97	6.2	78.8	2.3	135	5075	3027	62.7	50.4	3.02	2.5	28.6	0.63	106.7	169.3	0.540	0.532	0.638	1.18	Low F.S.
CPT-5	39.04	6.2	59.8	2.2	135	5085	3033	47.5	37.7	3.84	2.6	36.1	0.80	190.1	237.6	0.540	1.327	1.592	2.95	NonLiqfble.
CPT-5	39.11	6.2	48.2	2.31	135	5094	3038	38.3	30.0	5.06	2.8	44.3	0.80	153.1	191.3	0.541	0.731	0.878	1.62	NonLiqfble.
CPT-5	39.18	6.2	38.4	2.42	135	5104	3043	30.5	23.6	6.75	2.9	54.1	0.80	121.8	152.3	0.541	0.409	0.490	0.91	NonLiqfble.
CPT-5	39.25	6.2	49.8	2.51	135	5113	3048	39.5	31.0	5.31	2.8	44.6	0.80	157.9	197.3	0.541	0.795	0.954	1.76	NonLiqfble.
CPT-5	39.31	6.2	87.9	2.59	135	5121	3052	69.6	55.9	3.03	2.4	27.3	0.60	102.5	172.1	0.541	0.554	0.665	1.23	
CPT-5	39.47	6.2	130.9	2.77	135	5143	3064	103.5	83.7	2.16	2.2	18.8	0.37	60.1	163.5	0.541	0.487	0.584	1.08	Low F.S.
CPT-5	39.7	6.2	161.3	3.21	135	5174	3080	127.2	103.0	2.02	2.1	16.1	0.30	53.6	180.8	0.541	0.630	0.755	1.40	
CPT-5	39.79	6.2	184.8	3.03	135	5186	3087	145.5	118.0	1.66	2.0	13.2	0.22	40.5	186.1	0.541	0.679	0.815	1.50	
CPT-5	39.86	6.2	218.1	2.67	135	5196	3092	171.6	139.3	1.24	1.9	9.6	0.12	24.0	195.6	0.542	0.776	0.931	1.72	
CPT-5	39.93	6.2	273.8	2.2	125	5205	3097	215.3	175.1	0.81	1.7	5.5	0.01	3.0	218.3	0.542	1.047	1.257	2.32	
CPT-5	39.99	6.2	312.1	2.08	115	5213	3101	245.2	199.5	0.67	1.6	3.9	0.00	0.0	245.2	0.542	1.451	1.742	3.21	
CPT-5	40.05	6.2	338	2.23	115	5219	3104	265.4	216.0	0.66	1.5	3.4	0.00	0.0	265.4	0.501	1.819	2.183	4.36	
CPT-5	40.11	6.2	355	2.3	115	5226	3107	278.6	226.7	0.65	1.5	3.1	0.00	0.0	278.6	0.501	2.092	2.511	5.01	
CPT-5	40.18	6.2	357.7	2.37	115	5234	3111	280.6	228.2	0.67	1.5	3.2	0.00	0.0	280.6	0.501	2.135	2.562	5.11	
CPT-5	40.24	6.2	348.6	2.51	115	5241	3114	273.3	222.1	0.73	1.6	3.7	0.00	0.0	273.3	0.501	1.979	2.375	4.74	
CPT-5	40.31	6.2	341.4	2.47	115	5249	3118	267.5	217.2	0.73	1.6	3.8	0.00	0.0	267.5	0.501	1.861	2.233	4.45	
CPT-5	40.37	6.2	340.6	2.52	115	5256	3121	266.8	216.5	0.75	1.6	4.0	0.00	0.0	266.8	0.502	1.845	2.214	4.42	
CPT-5	40.44	6.2	336.1	2.58	125	5264	3125	263.1	213.4	0.77	1.6	4.2	0.00	0.0	263.1	0.502	1.773	2.128	4.24	
CPT-5	40.51	6.2	326.3	2.74	125	5273	3129	255.2	206.8	0.85	1.6	4.8	0.00	0.0	255.2	0.502	1.626	1.951	3.89	
CPT-5	40.57	6.2	324.6	2.86	125	5281	3133	253.7	205.5	0.89	1.6	5.1	0.00	0.8	254.5	0.502	1.614	1.936	3.86	
CPT-5	40.65	6.2	332.5	2.64	125	5291	3138	259.7	210.2	0.80	1.6	4.5	0.00	0.0	259.7	0.502	1.709	2.051	4.08	
CPT-5	40.71	6.2	344.7	2.49	115	5298	3142	269.1	217.7	0.73	1.6	3.8	0.00	0.0	269.1	0.502	1.892	2.270	4.52	
CPT-5	40.78	6.2	351.4	2.84	125	5306	3145	274.2	221.7	0.81	1.6	4.3	0.00	0.0	274.2	0.502	1.996	2.396	4.77	
CPT-5	40.85	6.2	355.2	3.33	125	5315	3150	276.9	223.8	0.94	1.6	5.0	0.00	0.0	276.9	0.503	2.055	2.467	4.91	
CPT-5	40.91	6.2	352.7	3.47	125	5322	3153	274.8	221.9	0.99	1.7	5.3	0.01	2.3	277.1	0.503	2.060	2.471	4.92	
CPT-5	40.98	6.2	350.6	3.34	125	5331	3158	273.0	220.3	0.96	1.6	5.2	0.00	1.3	274.3	0.503	1.998	2.398	4.77	
CPT-5	41.05	6.2	323.9	3.05	125	5340	3162	252.0	203.1	0.95	1.7	5.5	0.01	3.7	255.7	0.503	1.635	1.963	3.90	
CPT-5	41.12	6.2	291.6	2.83	125	5349	3166	226.7	182.4	0.98	1.7	6.3	0.04	8.3	235.1	0.503	1.288	1.546	3.07	
CPT-5	41.19	6.2	263	2.67	125	5357	3171	204.4	164.1	1.03	1.8	7.2	0.06	13.0	217.4	0.503	1.035	1.242	2.47	
CPT-5	41.26	6.2	256.3	1.8	115	5366	3175	199.0	159.7	0.71	1.7	5.4	0.01	2.0	201.0	0.503	0.835	1.002	1.99	
CPT-5	41.32	6.2	239.9	1.39	115	5373	3178	186.2	149.2	0.59	1.6	4.9	0.00	0.0	186.2	0.503	0.680	0.816	1.62	
CPT-5	41.39	6.2	227.7	1.34	115	5381	3182	176.6	141.4	0.60	1.7	5.3	0.01	1.2	177.8	0.504	0.603	0.724	1.44	
CPT-5	41.46	6.2	200.9	1.61	125	5389	3186	155.7	124.4	0.81	1.8	7.7	0.07	12.1	167.8	0.504	0.519	0.623	1.24	
CPT-5	41.53	6.2	168.3	1.83	125	5398	3190	130.4	103.8	1.11	1.9	11.0	0.16	25.0	155.4	0.504	0.429	0.515	1.02	Low F.S.
CPT-5	41.59	6.2	133.7	2.29	135	5405	3194	103.5	82.0	1.75	2.1	16.9	0.32	48.2	151.8	0.504	0.405	0.486	0.96	Liquefaction
CPT-5	41.67	6.2	94.6	2.35	135	5416	3200	73.2	57.4	2.56	2.4	24.9	0.53	82.7	155.9	0.504	0.432	0.519	1.03	Low F.S.
CPT-5	41.74	6.2	64.7	2.24	135	5426	3205	50.0	38.7	3.61	2.6	34.8	0.80	196.2	246.2	0.504	1.468	1.762	3.50	
CPT-5	41.81	6.2	51	2.08	135	5435	3210	39.4	30.1	4.31	2.7	41.6	0.80	157.5	196.9	0.504	0.790	0.948	1.88	NonLiqfble.
CPT-5	41.88	6.2	37.3	1.71	135	5445	3215	28.8	21.5	4.95	2.9	50.1	0.80	115.1	143.9	0.504	0.357	0.429	0.85	NonLiqfble.
CPT-5	41.95	6.2	30.3	1.12	135	5454	3220	23.4	17.1	4.06	2.9	51.3	0.80	93.5	116.8	0.504	0.228	0.274	0.54	NonLiqfble.
CPT-5	42.02	6.2	26.5	0.9	135	5463	3225	20.4	14.7	3.79	2.9	53.3	0.80	81.7	102.1	0.504	0.179	0.215	0.43	NonLiqfble.
CPT-5	42.08	6.2	25.7	0.81	135	5472	3229	19.8	14.2	3.53	2.9	52.9	0.80	79.1	98.9	0.505	0.170	0.204	0.40	NonLiqfble.
CPT-5	42.15	6.2	25.4	0.74	135	5481	3235	19.5	14.0	3.27	2.9	52.0	0.80	78.2	97.7	0.505	0.167	0.200	0.40	NonLiqfble.
CPT-5	42.26	6.2	32.7	0.71	125	5496	3243	25.1	18.5	2.37	2.7	41.5	0.80	100.5	125.6	0.505	0.264	0.317	0.63	NonLiqfble.
CPT-5	42.32	6.2	36.5	0.75	135	5503	3246	28.0	20.8	2.22	2.7	38.5	0.80	112.1	140.1	0.505	0.336	0.403	0.80	NonLiqfble.
CPT-5	42.39	6.2	35.8	0.93	135	5513	3251	27.5	20.3	2.81	2.7	42.2	0.80	109.9	137.4	0.505	0.321	0.385	0.76	NonLiqfble.
CPT-5	42.46	6.2	33.8	1.23	135	5522	3256	25.9	19.1	3.96	2.8	48.7	0.80	103.7	129.6	0.505	0.282	0.339	0.67	NonLiqfble.
CPT-5	42.54	6.2	34.4	1.43	135	5533	3262	26.4	19.4	4.52	2.9	50.6	0.80	105.4	131.8	0.505	0.293	0.351	0.70	NonLiqfble.
CPT-5	42.6	6.2	38.4	1.57	135	5541	3267	29.4	21.8	4.41	2.8	47.8	0.80	117.6	147.0	0.505	0.375	0.450	0.89	NonLiqfble.
CPT-5	42.67	6.2	48.3	1.74	135	5551	3272	36.9	27.8	3.82	2.7	41.1	0.80	147.8	184.7	0.505	0.666	0.800	1.58	NonLiqfble.
CPT-5	42.74	6.2	59	2.01	135	5560	3277	45.1	34.3	3.58	2.6	36.6	0.80	180.4	225.5	0.505	1.146	1.375	2.72	NonLiqfble.
CPT-5	42.81	6.2	70.5	2.64	135	5569	3282	53.8	41.2	3.90	2.6	35.0	0.80	215.7	269.6	0.505	1.902	2.283	4.52	
CPT-5	42.88	6.2	78.6	3.27	135	5579	3287	60.0	46.1	4.31	2.6	34.8	0.80	234.4						

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{ns}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K _{cr}	ΔQ_{ns}	(Q_{ns}) _{cs}	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	43.5	6.2	249.8	2.2	125	5661	3330	189.4	148.3	0.89	1.7	7.0	0.05	11.0	200.4	0.506	0.828	0.994	1.96	
CPT-5	43.57	6.2	229.1	2.25	125	5669	3334	173.6	135.7	0.99	1.8	8.3	0.09	16.8	190.4	0.506	0.722	0.867	1.71	
CPT-5	43.64	6.2	203.7	2.25	125	5678	3339	154.2	120.3	1.12	1.9	10.0	0.13	23.6	177.8	0.506	0.603	0.724	1.43	
CPT-5	43.72	6.2	183.1	2.36	135	5688	3344	138.5	107.8	1.31	2.0	12.0	0.19	31.7	170.2	0.507	0.539	0.647	1.28	
CPT-5	43.79	6.2	168.5	2.63	135	5697	3349	127.4	98.9	1.59	2.0	14.3	0.25	42.0	169.4	0.507	0.532	0.638	1.26	
CPT-5	43.87	6.2	158.7	3.01	135	5708	3355	119.9	92.9	1.93	2.1	16.6	0.31	54.0	173.9	0.507	0.569	0.683	1.35	
CPT-5	43.94	6.2	153.8	3.38	135	5718	3360	116.1	89.8	2.24	2.2	18.4	0.36	64.9	181.0	0.507	0.631	0.758	1.49	
CPT-5	44.02	6.2	150.6	3.77	135	5729	3365	113.6	87.8	2.55	2.2	20.1	0.40	76.3	189.9	0.507	0.717	0.860	1.70	
CPT-5	44.09	6.2	150.6	4.03	135	5738	3370	113.5	87.6	2.73	2.3	20.8	0.42	82.9	196.4	0.507	0.785	0.941	1.86	
CPT-5	44.16	6.2	153.6	4.28	135	5747	3376	115.7	89.3	2.84	2.3	21.1	0.43	87.0	202.6	0.507	0.854	1.024	2.02	
CPT-5	44.24	6.2	160.3	4.54	135	5758	3381	120.6	93.1	2.88	2.3	20.8	0.42	88.2	208.8	0.507	0.927	1.112	2.19	
CPT-5	44.31	6.2	171.6	4.52	135	5768	3386	129.0	99.6	2.68	2.2	19.3	0.38	79.8	208.8	0.507	0.927	1.112	2.19	
CPT-5	44.38	6.2	185	4.13	135	5777	3392	139.0	107.3	2.27	2.1	16.9	0.32	64.4	203.4	0.507	0.862	1.035	2.04	
CPT-5	44.45	6.2	202.1	3.52	135	5787	3397	151.7	117.2	1.77	2.0	13.7	0.23	46.2	197.9	0.507	0.801	0.961	1.89	
CPT-5	44.52	6.2	218.9	2.91	135	5796	3402	164.2	126.9	1.35	1.9	10.9	0.16	30.6	194.9	0.507	0.768	0.922	1.82	
CPT-5	44.59	6.2	230	2.3	125	5805	3407	172.4	133.3	1.01	1.8	8.5	0.09	18.1	190.5	0.507	0.723	0.867	1.71	
CPT-5	44.66	6.2	238.8	1.85	115	5814	3411	178.9	138.2	0.78	1.7	6.8	0.05	8.9	187.8	0.508	0.696	0.836	1.65	
CPT-5	44.72	6.2	237.5	1.73	115	5821	3414	177.8	137.4	0.74	1.7	6.5	0.04	7.4	185.2	0.508	0.671	0.805	1.59	
CPT-5	44.79	6.2	235	1.79	115	5829	3418	175.9	135.7	0.77	1.7	6.8	0.05	8.9	184.8	0.508	0.667	0.800	1.58	
CPT-5	44.86	6.2	232.8	1.85	125	5837	3422	174.1	134.3	0.80	1.8	7.1	0.06	10.4	184.6	0.508	0.665	0.798	1.57	
CPT-5	44.92	6.2	226.3	1.83	125	5845	3425	169.2	130.4	0.82	1.8	7.4	0.06	11.7	180.9	0.508	0.630	0.756	1.49	
CPT-5	44.99	6.2	227.5	1.78	125	5853	3430	170.0	130.9	0.79	1.8	7.2	0.06	10.6	180.6	0.508	0.628	0.753	1.48	
CPT-5	45.06	6.2	231.6	1.75	115	5862	3434	172.9	133.1	0.77	1.7	6.9	0.05	9.2	182.2	0.508	0.642	0.771	1.52	
CPT-5	45.13	6.2	235.3	1.71	115	5870	3438	175.6	135.1	0.74	1.7	6.6	0.04	7.8	183.4	0.508	0.653	0.784	1.54	
CPT-5	45.2	6.2	239.6	1.36	115	5878	3442	178.7	137.5	0.57	1.7	5.3	0.01	1.3	180.0	0.509	0.622	0.747	1.47	
CPT-5	45.26	6.2	250.1	1.32	115	5885	3445	186.4	143.4	0.53	1.6	4.7	0.00	0.0	186.4	0.509	0.683	0.819	1.61	
CPT-5	45.33	6.2	254.7	1.29	105	5893	3448	189.8	145.9	0.51	1.6	4.4	0.00	0.0	189.8	0.509	0.716	0.859	1.69	
CPT-5	45.39	6.2	254.3	1.29	105	5900	3451	189.4	145.6	0.51	1.6	4.4	0.00	0.0	189.4	0.509	0.712	0.854	1.68	
CPT-5	45.46	6.2	245.3	1.44	115	5907	3454	182.6	140.3	0.59	1.7	5.3	0.01	1.4	184.1	0.509	0.660	0.792	1.56	
CPT-5	45.52	6.2	229	1.67	115	5914	3457	170.4	130.7	0.74	1.7	6.8	0.05	8.8	179.2	0.509	0.615	0.738	1.45	
CPT-5	45.59	6.2	217.3	1.83	125	5922	3461	161.6	123.8	0.85	1.8	8.0	0.08	14.2	175.8	0.510	0.585	0.702	1.38	
CPT-5	45.65	6.2	200.2	2	125	5929	3465	148.8	113.8	1.01	1.9	9.7	0.13	21.4	170.2	0.510	0.539	0.647	1.27	
CPT-5	45.72	6.2	183.2	2.26	135	5938	3469	136.1	103.9	1.25	2.0	12.0	0.19	31.0	167.1	0.510	0.514	0.617	1.21	
CPT-5	45.79	6.2	168.6	2.51	135	5948	3474	125.2	95.3	1.52	2.0	14.2	0.25	40.8	166.0	0.510	0.505	0.606	1.19	Low F.S.
CPT-5	45.86	6.2	152.9	2.74	135	5957	3479	113.4	86.1	1.83	2.1	16.8	0.32	52.4	165.8	0.510	0.504	0.605	1.19	Low F.S.
CPT-5	45.93	6.2	148.6	3.05	135	5966	3484	110.2	83.6	2.09	2.2	18.5	0.36	61.9	172.0	0.510	0.554	0.664	1.30	
CPT-5	46	6.2	146.5	3.22	135	5976	3489	108.5	82.2	2.24	2.2	19.3	0.38	67.4	175.9	0.510	0.586	0.703	1.38	
CPT-5	46.07	6.2	145	3.3	135	5985	3494	107.3	81.2	2.32	2.2	19.8	0.40	70.4	177.8	0.510	0.602	0.723	1.42	
CPT-5	46.14	6.2	152	3.15	135	5995	3499	112.4	85.1	2.11	2.2	18.4	0.36	62.5	174.9	0.510	0.578	0.693	1.36	
CPT-5	46.21	6.2	162.8	2.77	135	6004	3505	120.3	91.2	1.73	2.1	15.8	0.29	48.8	169.1	0.510	0.530	0.636	1.25	
CPT-5	46.28	6.2	174.5	2.42	135	6014	3510	128.9	97.7	1.41	2.0	13.4	0.22	37.3	166.2	0.510	0.507	0.608	1.19	Low F.S.
CPT-5	46.35	6.2	193.6	1.98	125	6023	3515	142.9	108.4	1.04	1.9	10.3	0.14	23.3	166.2	0.510	0.507	0.608	1.19	Low F.S.
CPT-5	46.41	6.2	211.7	1.69	125	6031	3518	156.2	118.6	0.81	1.8	8.0	0.08	13.7	169.8	0.510	0.536	0.643	1.26	
CPT-5	46.48	6.2	227.8	1.5	115	6039	3523	167.9	127.6	0.67	1.7	6.5	0.04	6.8	174.7	0.511	0.576	0.692	1.35	
CPT-5	46.55	6.2	237.6	1.27	115	6047	3526	175.1	133.0	0.54	1.6	5.2	0.01	1.0	176.0	0.511	0.587	0.705	1.38	
CPT-5	46.62	6.2	236.7	1.4	115	6056	3530	174.3	132.3	0.60	1.7	5.7	0.02	3.3	177.6	0.511	0.601	0.721	1.41	
CPT-5	46.68	6.2	229.8	1.68	115	6062	3533	169.2	128.3	0.74	1.7	7.0	0.05	9.4	178.5	0.511	0.609	0.731	1.43	
CPT-5	46.75	6.2	235.1	1.85	125	6070	3537	173.0	131.2	0.80	1.8	7.2	0.06	10.9	183.9	0.511	0.658	0.790	1.55	
CPT-5	46.82	6.2	245.8	1.87	115	6079	3541	180.7	137.0	0.77	1.7	6.7	0.05	8.8	189.5	0.511	0.713	0.856	1.67	
CPT-5	46.88	6.2	239.3	1.83	115	6086	3545	175.9	133.3	0.77	1.7	7.0	0.05	9.7	185.6	0.511	0.674	0.809	1.58	
CPT-5	46.95	6.2	238.1	1.77	115	6094	3548	174.9	132.4	0.75	1.7	6.8	0.05	9.1	184.0	0.511	0.659	0.791	1.55	
CPT-5	47.02	6.2	244.9	1.77	115	6102	3552	179.8	136.1	0.73	1.7	6.5	0.04	7.6	187.4	0.512	0.692	0.830	1.62	
CPT-5	47.13	6.2	259.6	1.88	115	6115	3558	190.4	144.2	0.73	1.7	6.2	0.03	6.0	196.5	0.512	0.785	0.942	1.84	
CPT-5	47.27	6.2	287.2	2.01	115	6131	3565	210.5	159.3	0.71	1.7	5.4	0.01	2.1	212.5	0.512	0.973	1.167	2.28	
CPT-5	47.39	6.2	307.5	1.95	115	6145	3571	225.1	170.4	0.64	1.6	4.5	0.00	0.0	225.1	0.512	1.141	1.369	2.67	
CPT-5	47.52	6.2	315.9	1.86	115	6160	3578	231.1	174.8	0.59	1.6	4.0	0.00	0.0	231.1	0.513	1.227	1.473	2.87	
CPT-5	47.62	6.2	321.6	2.38	115	6171	3583	235.1	177.7	0.75	1.6	5.0	0.00	0.1	235.1	0.513	1.289	1.547	3.02	
CPT-5	47.68	6.2	327.5	2.45	115	6178	3587	239.3	180.8	0.76	1.6	5.0	0.00	0.0	239.3	0.513	1.354	1.625	3.17	
CPT-5	47.75	6.2	343	2.46	115	6186	3590	250.5	189.3	0.72	1.6	4.5	0.00	0.0	250.5	0.513	1.541	1.849	3.60	
CPT-5	47.81	6.2	352.5	2.46	115	6193	3593	257.3	194.4	0.70	1.6	4.2	0.00	0.0	257.3	0.513	1.664	1.997	3.89	
CPT-5	47.87	6.2	344.2	2.51	115	6200	3597	251.1	189.6	0.74	1.6	4.6	0.00	0.0	251.1	0.513	1.553	1.863	3.63	
CPT-5	47.94	6.2	329.8	2.5	125	6208	3600	240.5	181.4	0.77	1.6	5.0	0.00	0.1	240.6	0.513	1.375	1.650	3.21	
CPT-5	48.01	6.2																		

Project Name: Baypointe Parkway
 Project Number: 71233.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{HN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{EPT}	ΔQ_{HN}	$(Q_{HN})_{95}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	48.56	6.2	200.9	1.92	125	6284	3637	145.8	108.7	0.97	1.9	9.8	0.13	21.3	167.1	0.514	0.514	0.617	1.20	Low F.S.
CPT-5	48.63	6.2	204	1.97	125	6292	3641	147.9	110.3	0.98	1.9	9.7	0.13	21.4	169.3	0.515	0.532	0.638	1.24	
CPT-5	48.69	6.2	213.7	2.09	125	6300	3645	154.9	115.5	0.99	1.9	9.5	0.12	21.0	175.8	0.515	0.585	0.703	1.37	
CPT-5	48.76	6.2	224.8	2.1	125	6309	3650	162.8	121.4	0.95	1.8	8.8	0.10	18.3	181.2	0.515	0.633	0.760	1.48	
CPT-5	48.83	6.2	235.9	2.15	125	6317	3654	170.7	127.3	0.92	1.8	8.3	0.09	16.5	187.2	0.515	0.690	0.828	1.61	
CPT-5	48.89	6.2	255.2	2.19	125	6325	3658	184.6	137.8	0.87	1.8	7.4	0.06	12.6	197.2	0.515	0.793	0.952	1.85	
CPT-5	48.96	6.2	264.7	2.23	125	6334	3662	191.4	142.8	0.85	1.7	7.0	0.05	11.0	202.4	0.515	0.851	1.022	1.98	
CPT-5	49.02	6.2	269.1	2.5	125	6341	3666	194.5	145.0	0.94	1.8	7.5	0.07	14.0	208.4	0.515	0.922	1.107	2.15	
CPT-5	49.25	6.2	252.3	2.31	125	6370	3680	182.0	135.3	0.93	1.8	7.9	0.08	15.2	197.2	0.515	0.793	0.952	1.85	
CPT-5	49.32	6.2	245.5	2.44	125	6379	3685	177.0	131.5	1.01	1.8	8.6	0.10	18.9	195.8	0.516	0.778	0.934	1.81	
CPT-5	49.39	6.2	230.6	2.16	125	6387	3689	166.1	123.2	0.95	1.8	8.7	0.10	18.2	184.3	0.516	0.662	0.795	1.54	
CPT-5	49.46	6.2	209.7	1.94	125	6396	3693	151.0	111.8	0.94	1.9	9.4	0.12	19.9	170.8	0.516	0.544	0.652	1.27	
CPT-5	49.53	6.2	195.9	1.87	125	6405	3698	141.0	104.2	0.97	1.9	10.1	0.14	22.3	163.2	0.516	0.485	0.581	1.13	Low F.S.
CPT-5	49.6	6.2	179.3	1.82	125	6414	3702	128.9	95.1	1.03	1.9	11.3	0.17	26.0	154.9	0.516	0.426	0.511	0.99	Liquefaction
CPT-5	49.66	6.2	176.6	1.81	125	6421	3706	126.9	93.5	1.04	1.9	11.5	0.17	26.6	153.6	0.516	0.417	0.500	0.97	Liquefaction
CPT-5	49.73	6.2	172.6	1.64	125	6430	3710	124.0	91.3	0.97	1.9	11.2	0.17	24.5	148.5	0.516	0.385	0.461	0.89	Liquefaction
CPT-5	49.8	6.2	171.9	1.67	125	6439	3715	123.4	90.8	0.99	1.9	11.4	0.17	25.3	148.8	0.516	0.386	0.463	0.90	Liquefaction
CPT-5	49.88	6.2	170.6	1.78	125	6449	3720	122.4	90.0	1.06	2.0	12.0	0.19	27.9	150.3	0.516	0.396	0.475	0.92	Liquefaction
CPT-5	49.94	6.2	162.9	1.98	135	6456	3724	116.8	85.7	1.24	2.0	13.5	0.23	34.5	151.3	0.516	0.402	0.483	0.93	Liquefaction
CPT-5	50.01	6.2	161.4	1.95	125	6465	3729	115.7	84.8	1.23	2.0	13.6	0.23	34.5	150.1	0.456	0.395	0.473	1.04	Low F.S.
CPT-5	50.09	6.2	161.4	1.95	125	6475	3734	115.6	84.7	1.23	2.0	13.6	0.23	34.5	150.1	0.456	0.394	0.473	1.04	Low F.S.
CPT-5	50.15	6.2	145.1	2.03	135	6483	3737	103.8	75.9	1.43	2.1	15.9	0.29	42.5	146.4	0.456	0.372	0.446	0.98	Liquefaction
CPT-5	50.22	6.2	146.3	2.17	135	6492	3742	104.6	76.4	1.52	2.1	16.3	0.30	45.3	150.0	0.456	0.394	0.472	1.04	Low F.S.
CPT-5	50.29	6.2	148.3	2.11	135	6502	3748	106.0	77.4	1.45	2.1	15.8	0.29	43.1	149.1	0.456	0.388	0.466	1.02	Low F.S.
CPT-5	50.37	6.2	147.2	2.03	135	6513	3753	105.1	76.7	1.41	2.1	15.7	0.28	41.8	146.9	0.456	0.375	0.450	0.99	Liquefaction
CPT-5	50.43	6.2	142.9	2	135	6521	3758	102.0	74.3	1.43	2.1	16.1	0.30	43.0	145.0	0.456	0.363	0.436	0.96	Liquefaction
CPT-5	50.5	6.2	149.1	2.09	135	6530	3763	106.4	77.5	1.43	2.1	15.7	0.29	42.5	148.8	0.456	0.387	0.464	1.02	Low F.S.
CPT-5	50.57	6.2	151.7	2.1	135	6540	3768	108.1	78.8	1.41	2.1	15.4	0.28	41.7	149.8	0.456	0.393	0.471	1.03	Low F.S.
CPT-5	50.64	6.2	150	1.84	135	6549	3773	106.8	77.7	1.25	2.1	14.5	0.25	36.6	143.4	0.456	0.354	0.425	0.93	Liquefaction
CPT-5	50.71	6.2	153.8	1.71	125	6559	3778	109.5	79.6	1.14	2.0	13.5	0.23	32.4	141.9	0.456	0.345	0.415	0.91	Liquefaction
CPT-5	50.78	6.2	156.9	1.53	125	6567	3782	111.6	81.2	1.00	2.0	12.4	0.20	27.5	139.1	0.456	0.331	0.397	0.87	Liquefaction
CPT-5	50.85	6.2	162.6	1.61	125	6576	3787	115.6	84.1	1.01	2.0	12.2	0.19	27.5	143.1	0.456	0.352	0.423	0.93	Liquefaction
CPT-5	50.92	6.2	169.8	1.75	125	6585	3791	120.7	87.8	1.05	2.0	12.1	0.19	28.2	148.8	0.456	0.387	0.464	1.02	Low F.S.
CPT-5	50.99	6.2	179.2	1.81	125	6594	3796	127.3	92.7	1.03	1.9	11.5	0.17	26.6	153.9	0.456	0.419	0.503	1.10	Low F.S.
CPT-5	51.06	6.2	195.8	1.88	125	6602	3800	139.0	101.3	0.98	1.9	10.4	0.14	23.3	162.3	0.457	0.478	0.573	1.26	
CPT-5	51.13	6.2	222.8	2.01	125	6611	3804	158.0	115.3	0.92	1.8	9.0	0.11	18.7	176.7	0.457	0.593	0.712	1.56	
CPT-5	51.19	6.2	251.9	2.02	125	6619	3808	178.6	130.5	0.81	1.8	7.4	0.06	12.0	190.6	0.457	0.724	0.869	1.90	
CPT-5	51.26	6.2	272.3	1.96	115	6627	3812	193.0	141.1	0.73	1.7	6.3	0.03	6.7	199.7	0.457	0.820	0.985	2.16	
CPT-5	51.33	6.2	291.8	2.02	115	6635	3816	206.7	151.1	0.70	1.7	5.6	0.02	3.5	210.2	0.457	0.944	1.133	2.48	
CPT-5	51.4	6.2	286.9	2.01	115	6643	3820	203.1	148.4	0.71	1.7	5.8	0.02	4.4	207.5	0.457	0.911	1.094	2.39	
CPT-5	51.46	6.2	278.9	2.26	125	6650	3823	197.4	144.1	0.82	1.7	6.8	0.05	9.7	207.1	0.457	0.906	1.087	2.38	
CPT-5	51.53	6.2	271.8	2.41	125	6659	3827	192.2	140.2	0.90	1.8	7.5	0.07	13.5	205.7	0.457	0.890	1.068	2.34	
CPT-5	51.6	6.2	265.2	2.23	125	6668	3832	187.5	136.6	0.85	1.8	7.3	0.06	12.4	199.9	0.457	0.822	0.987	2.16	
CPT-5	51.67	6.2	264.4	2.28	125	6677	3836	186.8	136.1	0.87	1.8	7.5	0.07	13.4	200.1	0.457	0.826	0.991	2.17	
CPT-5	51.74	6.2	265.5	2.49	125	6685	3840	187.5	136.5	0.95	1.8	8.0	0.08	16.2	203.7	0.457	0.866	1.039	2.27	
CPT-5	51.81	6.2	270.8	2.71	125	6694	3845	191.1	139.1	1.01	1.8	8.3	0.09	18.2	209.3	0.457	0.932	1.119	2.45	
CPT-5	51.88	6.2	293.9	2.87	125	6703	3849	207.3	150.9	0.99	1.8	7.6	0.07	15.2	222.4	0.458	1.103	1.324	2.89	
CPT-5	51.95	6.2	313.6	2.96	125	6712	3854	221.0	160.9	0.95	1.7	6.9	0.05	12.0	233.0	0.458	1.257	1.508	3.30	
CPT-5	52.01	6.2	325.9	3.03	125	6719	3857	229.6	167.2	0.94	1.7	6.6	0.04	10.3	239.9	0.458	1.364	1.636	3.58	
CPT-5	52.08	6.2	333.3	3.13	125	6728	3862	234.7	170.8	0.95	1.7	6.5	0.04	10.0	244.7	0.458	1.442	1.731	3.78	
CPT-5	52.15	6.2	341.7	2.72	125	6737	3866	240.4	174.9	0.80	1.7	5.5	0.01	3.1	243.5	0.458	1.423	1.708	3.73	
CPT-5	52.22	6.2	354.8	2.88	125	6745	3871	249.5	181.5	0.82	1.7	5.4	0.01	2.5	252.0	0.458	1.568	1.882	4.11	
CPT-5	52.28	6.2	372.9	2.93	125	6753	3874	262.1	190.7	0.79	1.6	4.9	0.00	0.0	262.1	0.458	1.755	2.106	4.60	
CPT-5	52.34	6.2	373.7	3.32	125	6760	3878	262.6	190.9	0.90	1.7	5.6	0.02	4.0	266.6	0.458	1.842	2.211	4.83	
CPT-5	52.5	6.2	378.8	3.45	125	6780	3888	265.8	193.0	0.92	1.7	5.6	0.02	4.6	270.4	0.458	1.919	2.303	5.03	
CPT-5	52.56	6.2	385.8	3.67	125	6788	3892	270.6	196.4	0.96	1.7	5.8	0.02	5.8	276.4	0.458	2.044	2.453	5.35	
CPT-5	52.63	6.2	385.3	3.88	125	6797	3896	270.1	196.0	1.02	1.7	6.1	0.03	8.4	278.5	0.458	2.089	2.507	5.47	
CPT-5	52.7	6.2	391.5	3.63	125	6805	3901	274.3	198.9	0.94	1.7	5.6	0.02	4.3	278.5	0.458	2.090	2.508	5.47	
CPT-5	52.76	6.2	393.4	3.25	125	6813	3904	275.5	199.7	0.83	1.6	4.9	0.00	0.0	275.5	0.459	2.024	2.429	5.30	
CPT-5	52.83	6.2	383.4	3.32	125	6822	3909	268.3	194.3	0.87	1.7	5.3	0.01	2.4	270.7	0.459	1.924	2.309	5.04	
CPT-5	52.9	6.2	370.3	3.68	125	6830	3913	259.0	187.4	1.00	1.7	6.3	0.03	9.4	268.4	0.459	1.878	2.254	4.91	
CPT-5	52.96	6.2	366.9	3.57	125	6838	3917	256.5	185.5	0.98	1.7	6.2	0.03	8.8	265.					

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(N)}$	$(Q_{(N)})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	53.44	6.2	372	3.52	125	6898	3947	259.1	186.7	0.96	1.7	6.0	0.03	7.5	266.5	0.459	1.841	2.209	4.81	
CPT-5	53.49	6.2	378.9	3.47	125	6905	3951	263.8	190.0	0.92	1.7	5.8	0.02	5.5	269.2	0.459	1.895	2.274	4.95	
CPT-5	53.55	6.2	369.2	3.53	125	6912	3954	256.9	184.9	0.97	1.7	6.2	0.03	8.2	265.1	0.459	1.813	2.176	4.74	
CPT-5	53.59	6.2	371.6	3.43	125	6917	3957	258.5	186.0	0.93	1.7	5.9	0.02	6.6	265.0	0.459	1.812	2.174	4.73	
CPT-5	53.64	6.2	386.9	3.5	125	6923	3960	269.0	193.6	0.91	1.7	5.6	0.02	4.3	273.3	0.459	1.979	2.374	5.17	
CPT-5	53.68	6.2	385.5	3.56	125	6928	3962	268.0	192.7	0.93	1.7	5.7	0.02	5.3	273.3	0.459	1.978	2.373	5.17	
CPT-5	53.73	6.2	347.3	3.93	125	6935	3966	241.3	173.3	1.14	1.8	7.6	0.07	17.9	259.2	0.459	1.700	2.040	4.44	
CPT-5	53.79	6.2	403	2.96	115	6942	3969	279.9	201.2	0.74	1.6	4.3	0.00	0.0	279.9	0.460	2.119	2.543	5.53	
CPT-5	53.84	6.2	419.1	2.72	115	6948	3972	291.0	209.2	0.65	1.5	3.5	0.00	0.0	291.0	0.460	2.371	2.845	6.19	
CPT-5	53.87	6.2	417	2.7	115	6951	3974	289.4	208.1	0.65	1.5	3.5	0.00	0.0	289.4	0.460	2.335	2.802	6.10	
CPT-5	53.92	6.2	414.1	2.64	115	6957	3976	287.3	206.5	0.64	1.5	3.5	0.00	0.0	287.3	0.460	2.286	2.743	5.97	
CPT-5	53.95	6.2	406.2	2.86	115	6960	3978	281.8	202.4	0.71	1.6	4.1	0.00	0.0	281.8	0.460	2.161	2.593	5.64	
CPT-5	53.98	6.2	395.8	2.68	115	6964	3979	274.5	197.1	0.68	1.6	4.0	0.00	0.0	274.5	0.460	2.004	2.405	5.23	
CPT-5	54.02	6.2	381.8	2.62	115	6969	3981	264.7	190.0	0.69	1.6	4.3	0.00	0.0	264.7	0.460	1.806	2.167	4.71	
CPT-5	54.08	6.2	400.4	2.94	115	6975	3985	277.5	199.1	0.74	1.6	4.4	0.00	0.0	277.5	0.460	2.068	2.482	5.40	
CPT-5	54.12	6.2	395.2	2.68	115	6980	3987	273.9	196.4	0.68	1.6	4.0	0.00	0.0	273.9	0.460	1.990	2.388	5.19	
CPT-5	54.16	6.2	388	2.61	115	6985	3989	268.8	192.7	0.68	1.6	4.1	0.00	0.0	268.8	0.460	1.886	2.263	4.92	
CPT-5	54.2	6.2	366	2.92	125	6989	3991	253.5	181.6	0.81	1.7	5.3	0.01	1.9	255.4	0.460	1.628	1.954	4.25	
CPT-5	54.24	6.2	352.5	2.85	125	6994	3993	244.1	174.7	0.82	1.7	5.6	0.02	3.7	247.8	0.460	1.495	1.794	3.90	
CPT-5	54.29	6.2	352.3	2.71	125	7000	3997	243.8	174.5	0.78	1.7	5.3	0.01	2.0	245.9	0.460	1.462	1.755	3.81	
CPT-5	54.34	6.2	354.9	2.48	115	7007	4000	245.5	175.6	0.71	1.6	4.8	0.00	0.0	245.5	0.460	1.457	1.748	3.80	
CPT-5	54.37	6.2	346.8	2.81	125	7010	4001	239.9	171.5	0.82	1.7	5.7	0.02	4.5	244.3	0.460	1.437	1.724	3.74	
CPT-5	54.41	6.2	342.5	3.12	125	7015	4004	236.8	169.3	0.92	1.7	6.4	0.04	9.3	246.1	0.460	1.466	1.760	3.82	
CPT-5	54.45	6.2	331.4	3.03	125	7020	4006	229.1	163.6	0.92	1.7	6.6	0.04	10.5	239.6	0.460	1.359	1.631	3.54	
CPT-5	54.48	6.2	318.3	2.81	125	7024	4008	220.0	157.0	0.89	1.7	6.7	0.05	10.4	230.4	0.460	1.218	1.461	3.17	
CPT-5	54.51	6.2	315	2.7	125	7028	4010	217.6	155.3	0.87	1.7	6.6	0.04	9.7	227.3	0.461	1.173	1.407	3.06	
CPT-5	54.56	6.2	325.9	2.39	115	7034	4013	225.1	160.6	0.74	1.7	5.6	0.01	3.4	228.5	0.461	1.189	1.427	3.10	
CPT-5	54.6	6.2	327.5	2.19	115	7039	4015	226.1	161.3	0.68	1.6	5.1	0.00	0.4	226.6	0.461	1.161	1.394	3.03	
CPT-5	54.64	6.2	332.5	2.78	125	7043	4017	229.5	163.7	0.85	1.7	6.1	0.03	7.2	236.7	0.461	1.313	1.576	3.42	
CPT-5	54.67	6.2	323.9	3.04	125	7047	4019	223.5	159.4	0.95	1.7	7.0	0.05	12.3	235.9	0.461	1.301	1.561	3.39	
CPT-5	54.71	6.2	330.8	3.07	125	7052	4022	228.2	162.7	0.94	1.7	6.8	0.05	11.3	239.5	0.461	1.358	1.629	3.54	
CPT-5	54.76	6.2	319.5	2.97	125	7058	4025	220.4	156.9	0.94	1.7	7.0	0.05	12.4	232.8	0.461	1.253	1.504	3.26	
CPT-5	54.79	6.2	311.6	3.2	125	7062	4027	214.9	152.9	1.04	1.8	7.8	0.07	17.2	232.0	0.461	1.242	1.490	3.23	
CPT-5	54.82	6.2	299.7	3.39	125	7066	4029	206.6	147.0	1.14	1.8	8.7	0.10	22.5	229.1	0.461	1.198	1.437	3.12	
CPT-5	54.86	6.2	288.8	3.05	125	7071	4031	199.0	141.5	1.07	1.8	8.5	0.09	20.4	219.4	0.461	1.063	1.275	2.77	
CPT-5	54.9	6.2	285.7	2.69	125	7076	4034	196.8	139.8	0.95	1.8	7.8	0.08	16.1	213.0	0.461	0.978	1.174	2.55	
CPT-5	54.96	6.2	297.4	1.92	115	7083	4037	204.8	145.5	0.65	1.7	5.5	0.01	2.9	207.7	0.461	0.913	1.095	2.38	
CPT-5	55	6.2	300.7	1.64	115	7088	4039	207.0	147.1	0.55	1.6	4.7	0.00	0.0	207.0	0.461	0.905	1.086	2.36	
CPT-5	55.04	6.2	302.3	1.89	115	7092	4042	208.1	147.8	0.63	1.7	5.3	0.01	1.5	209.6	0.461	0.936	1.123	2.44	
CPT-5	55.11	6.2	306.3	2.43	125	7100	4045	210.7	149.6	0.80	1.7	6.4	0.04	8.2	218.9	0.461	1.056	1.267	2.75	
CPT-5	55.16	6.2	312.6	2.9	125	7107	4048	215.0	152.6	0.94	1.8	7.2	0.06	13.2	228.2	0.461	1.185	1.422	3.08	
CPT-5	55.19	6.2	316.3	3.19	125	7110	4050	217.5	154.4	1.02	1.8	7.6	0.07	16.2	233.7	0.461	1.267	1.520	3.30	
CPT-5	55.28	6.2	340.8	3.51	125	7122	4056	234.1	166.2	1.04	1.8	7.3	0.06	15.0	249.1	0.461	1.518	1.822	3.95	
CPT-5	55.34	6.2	356.5	3.57	125	7129	4060	244.8	173.8	1.01	1.7	6.8	0.05	12.4	257.2	0.461	1.663	1.995	4.32	
CPT-5	55.41	6.2	384.6	3.61	125	7138	4064	264.0	187.4	0.95	1.7	6.0	0.03	7.1	271.1	0.462	1.932	2.318	5.02	
CPT-5	55.47	6.2	391.9	3.72	125	7145	4068	268.9	190.8	0.96	1.7	5.9	0.03	6.9	275.8	0.462	2.030	2.437	5.28	
CPT-5	55.53	6.2	401.7	3.7	125	7153	4072	275.4	195.5	0.93	1.7	5.6	0.02	4.7	280.2	0.462	2.126	2.551	5.53	
CPT-5	55.6	6.2	402.2	3.65	125	7162	4076	275.6	195.5	0.92	1.7	5.6	0.01	4.1	279.8	0.462	2.116	2.539	5.50	
CPT-5	55.66	6.2	397.6	3.51	125	7169	4080	272.4	193.1	0.89	1.7	5.5	0.01	3.5	275.8	0.462	2.031	2.438	5.28	
CPT-5	55.72	6.2	395.9	3.3	125	7177	4083	271.1	192.1	0.84	1.6	5.2	0.01	1.4	272.5	0.462	1.961	2.353	5.10	
CPT-5	55.78	6.2	393.9	3.09	125	7184	4087	269.6	190.9	0.79	1.6	4.9	0.00	0.0	269.6	0.462	1.902	2.282	4.94	
CPT-5	55.84	6.2	398.3	2.66	115	7192	4091	272.5	192.9	0.67	1.6	4.1	0.00	0.0	272.5	0.462	1.961	2.353	5.09	
CPT-5	55.88	6.2	397	2.57	115	7196	4093	271.5	192.1	0.65	1.6	4.0	0.00	0.0	271.5	0.462	1.941	2.330	5.04	
CPT-5	55.92	6.2	398.1	2.79	115	7201	4095	272.2	192.6	0.71	1.6	4.3	0.00	0.0	272.2	0.462	1.955	2.347	5.08	
CPT-5	55.95	6.2	395	3.13	125	7204	4097	270.0	191.0	0.80	1.6	5.0	0.00	0.0	270.0	0.462	1.911	2.293	4.96	
CPT-5	56.01	6.2	400.3	3.6	125	7212	4100	273.5	193.4	0.91	1.7	5.6	0.01	4.2	277.7	0.462	2.071	2.485	5.38	
CPT-5	56.05	6.2	402.3	3.48	125	7217	4103	274.8	194.3	0.87	1.7	5.3	0.01	2.4	277.2	0.462	2.061	2.473	5.35	
CPT-5	56.08	6.2	407.5	3.5	125	7220	4105	278.3	196.7	0.87	1.7	5.2	0.01	1.6	279.9	0.462	2.120	2.544	5.50	
CPT-5	56.12	6.2	492.6	3.48	115	7225	4107	336.3	238.0	0.71	1.5	3.3	0.00	0.0	336.3	0.462	3.617	4.341	9.39	
CPT-5	56.16	6.2	449.2	3.45	125	7230	4109	306.6	216.8	0.77	1.6	4.1	0.00	0.0	306.6	0.462	2.760	3.312	7.16	
CPT-5	56.22	6.2	425.1	3.55	125	7238	4113	290.0	204.9	0.84	1.6	4.8	0.00	0.0	290.0	0.462	2.348	2.818	6.10	
CPT-5	56.27	6.2	417.3	3.58	125	7244	4116	284.6	200.9	0.87	1.6	5.1	0.00	0.7	285.3	0.462	2.240	2.688	5.81	
CPT-5	56.31	6.2	413.2	3.52	125	7249	4119													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(1N)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(1N)}$	$Q_{(1N)-s}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	56.67	6.2	404	2.56	115	7292	4140	274.7	193.3	0.64	1.6	3.8	0.00	0.0	274.7	0.463	2.009	2.410	5.21	
CPT-5	56.71	6.2	400.3	2.54	115	7297	4142	272.2	191.5	0.64	1.6	3.9	0.00	0.0	272.2	0.463	1.955	2.346	5.07	
CPT-5	56.78	6.2	403.8	2.6	115	7305	4145	274.4	193.0	0.65	1.6	3.9	0.00	0.0	274.4	0.463	2.002	2.402	5.19	
CPT-5	56.83	6.2	405.8	2.7	115	7310	4148	275.7	193.8	0.67	1.6	4.0	0.00	0.0	275.7	0.463	2.029	2.434	5.26	
CPT-5	56.89	6.2	402.7	2.54	115	7317	4151	273.5	192.2	0.64	1.6	3.8	0.00	0.0	273.5	0.463	1.982	2.379	5.14	
CPT-5	56.93	6.2	392.5	2.53	115	7322	4153	266.5	187.2	0.65	1.6	4.1	0.00	0.0	266.5	0.463	1.840	2.208	4.77	
CPT-5	56.96	6.2	381.2	2.4	115	7325	4155	258.8	181.7	0.64	1.6	4.1	0.00	0.0	258.8	0.463	1.691	2.030	4.38	
CPT-5	57	6.2	373.1	2.35	115	7330	4157	253.2	177.7	0.64	1.6	4.2	0.00	0.0	253.2	0.463	1.590	1.908	4.12	
CPT-5	57.03	6.2	370.3	2.32	115	7333	4158	251.2	176.3	0.63	1.6	4.3	0.00	0.0	251.2	0.463	1.555	1.866	4.03	
CPT-5	57.08	6.2	365.4	2.47	115	7339	4161	247.8	173.8	0.68	1.6	4.7	0.00	0.0	247.8	0.463	1.496	1.795	3.87	
CPT-5	57.12	6.2	365.1	2.59	115	7344	4163	247.6	173.6	0.72	1.6	4.9	0.00	0.0	247.6	0.464	1.491	1.790	3.86	
CPT-5	57.17	6.2	377.2	2.74	115	7349	4166	255.7	179.3	0.73	1.6	4.9	0.00	0.0	255.7	0.464	1.635	1.962	4.23	
CPT-5	57.22	6.2	381.9	2.76	115	7355	4168	258.8	181.4	0.73	1.6	4.8	0.00	0.0	258.8	0.464	1.692	2.031	4.38	
CPT-5	57.29	6.2	380	2.78	115	7363	4172	257.4	180.3	0.74	1.6	4.9	0.00	0.0	257.4	0.464	1.666	1.999	4.31	
CPT-5	57.35	6.2	383.1	2.53	115	7370	4175	259.4	181.7	0.67	1.6	4.3	0.00	0.0	259.4	0.464	1.703	2.044	4.41	
CPT-5	57.41	6.2	388.8	2.66	115	7377	4178	263.2	184.3	0.69	1.6	4.4	0.00	0.0	263.2	0.464	1.775	2.130	4.59	
CPT-5	57.46	6.2	390.6	2.62	115	7383	4181	264.3	185.0	0.68	1.6	4.3	0.00	0.0	264.3	0.464	1.797	2.157	4.65	
CPT-5	57.49	6.2	394.6	2.73	115	7386	4183	267.0	186.8	0.70	1.6	4.4	0.00	0.0	267.0	0.464	1.849	2.219	4.78	
CPT-5	57.57	6.2	422.5	2.97	115	7395	4187	285.7	200.0	0.71	1.6	4.1	0.00	0.0	285.7	0.464	2.249	2.698	5.81	
CPT-5	57.6	6.2	420	2.9	115	7399	4188	283.9	198.7	0.70	1.6	4.1	0.00	0.0	283.9	0.464	2.209	2.651	5.71	
CPT-5	57.63	6.2	409.9	2.61	115	7402	4190	277.1	193.8	0.64	1.6	3.8	0.00	0.0	277.1	0.464	2.058	2.470	5.32	
CPT-5	57.68	6.2	431.5	2.32	115	7408	4193	291.6	204.0	0.54	1.5	2.9	0.00	0.0	291.6	0.464	2.385	2.862	6.17	
CPT-5	57.71	6.2	420.6	2.63	115	7412	4194	284.2	198.7	0.63	1.6	3.6	0.00	0.0	284.2	0.464	2.214	2.657	5.72	
CPT-5	57.76	6.2	427	2.99	115	7417	4197	288.4	201.6	0.71	1.6	4.1	0.00	0.0	288.4	0.464	2.311	2.773	5.97	
CPT-5	57.83	6.2	421.9	3.09	115	7425	4201	284.8	199.0	0.74	1.6	4.3	0.00	0.0	284.8	0.464	2.229	2.675	5.76	
CPT-5	57.89	6.2	429.2	3.25	125	7432	4204	289.6	202.3	0.76	1.6	4.4	0.00	0.0	289.6	0.465	2.340	2.808	6.04	
CPT-5	57.96	6.2	431	3.56	125	7441	4208	290.7	203.0	0.83	1.6	4.8	0.00	0.0	290.7	0.465	2.365	2.838	6.11	
CPT-5	58.02	6.2	437.3	3.59	125	7448	4212	294.8	205.8	0.83	1.6	4.7	0.00	0.0	294.8	0.465	2.463	2.956	6.36	
CPT-5	58.09	6.2	439.6	3.32	125	7457	4216	296.2	206.7	0.76	1.6	4.3	0.00	0.0	296.2	0.465	2.497	2.997	6.45	
CPT-5	58.15	6.2	439.9	2.96	115	7465	4220	296.3	206.6	0.68	1.6	3.8	0.00	0.0	296.3	0.465	2.499	2.999	6.45	
CPT-5	58.2	6.2	436	2.87	115	7470	4223	293.6	204.7	0.66	1.6	3.7	0.00	0.0	293.6	0.465	2.433	2.920	6.28	
CPT-5	58.25	6.2	424	2.83	115	7476	4225	285.4	198.8	0.67	1.6	3.9	0.00	0.0	285.4	0.465	2.242	2.690	5.79	
CPT-5	58.29	6.2	412.3	2.69	115	7481	4227	277.5	193.2	0.66	1.6	4.0	0.00	0.0	277.5	0.465	2.066	2.480	5.33	
CPT-5	58.32	6.2	409.3	2.65	115	7484	4229	275.4	191.7	0.65	1.6	4.0	0.00	0.0	275.4	0.465	2.022	2.427	5.22	
CPT-5	58.36	6.2	400.3	2.74	115	7489	4231	269.3	187.4	0.69	1.6	4.3	0.00	0.0	269.3	0.465	1.896	2.275	4.89	
CPT-5	58.4	6.2	397.5	2.53	115	7493	4233	267.3	186.0	0.64	1.6	4.0	0.00	0.0	267.3	0.465	1.856	2.228	4.79	
CPT-5	58.45	6.2	411.7	2.37	115	7499	4236	276.8	192.5	0.58	1.5	3.4	0.00	0.0	276.8	0.465	2.052	2.462	5.29	
CPT-5	58.49	6.2	405	1.62	105	7504	4238	272.2	189.3	0.40	1.5	2.2	0.00	0.0	272.2	0.465	1.956	2.347	5.04	
CPT-5	58.54	6.2	399.3	1.46	105	7509	4240	268.3	186.5	0.37	1.4	2.0	0.00	0.0	268.3	0.465	1.876	2.252	4.84	
CPT-5	58.6	6.2	380.6	1.28	105	7515	4243	255.7	177.6	0.34	1.4	1.9	0.00	0.0	255.7	0.465	1.634	1.961	4.21	
CPT-5	58.65	6.2	400.7	1.51	105	7521	4245	269.1	187.0	0.38	1.4	2.0	0.00	0.0	269.1	0.466	1.892	2.271	4.88	
CPT-5	58.69	6.2	392	1.65	105	7525	4246	263.2	182.8	0.42	1.5	2.5	0.00	0.0	263.2	0.466	1.776	2.131	4.58	
CPT-5	58.72	6.2	381.2	1.79	105	7528	4248	255.9	177.6	0.47	1.5	3.0	0.00	0.0	255.9	0.466	1.639	1.966	4.22	
CPT-5	58.75	6.2	372.7	1.96	115	7531	4249	250.2	173.6	0.53	1.6	3.6	0.00	0.0	250.2	0.466	1.536	1.843	3.96	
CPT-5	58.82	6.2	385.4	2.23	115	7539	4253	258.6	179.4	0.58	1.6	3.8	0.00	0.0	258.6	0.466	1.688	2.026	4.35	
CPT-5	58.88	6.2	399.4	2.4	115	7546	4256	267.9	185.8	0.61	1.6	3.8	0.00	0.0	267.9	0.466	1.868	2.241	4.81	
CPT-5	58.94	6.2	397.4	2.38	115	7553	4259	266.4	184.8	0.60	1.6	3.8	0.00	0.0	266.4	0.466	1.839	2.207	4.74	
CPT-5	59.01	6.2	397.5	2.16	115	7561	4263	266.4	184.7	0.55	1.5	3.4	0.00	0.0	266.4	0.466	1.838	2.206	4.73	
CPT-5	59.07	6.2	398.9	1.91	105	7568	4266	267.2	185.2	0.48	1.5	2.9	0.00	0.0	267.2	0.466	1.855	2.226	4.77	
CPT-5	59.13	6.2	399.2	2.25	115	7574	4268	267.3	185.2	0.57	1.5	3.5	0.00	0.0	267.3	0.466	1.857	2.229	4.78	
CPT-5	59.19	6.2	407.8	2.17	115	7581	4271	273.0	189.1	0.54	1.5	3.2	0.00	0.0	273.0	0.466	1.972	2.367	5.08	
CPT-5	59.25	6.2	399.8	2.12	115	7588	4275	267.6	185.2	0.54	1.5	3.3	0.00	0.0	267.6	0.466	1.861	2.233	4.79	
CPT-5	59.29	6.2	399	2.13	115	7593	4277	267.0	184.7	0.54	1.5	3.3	0.00	0.0	267.0	0.466	1.849	2.219	4.76	
CPT-5	59.34	6.2	394.3	2.28	115	7598	4279	263.7	182.4	0.58	1.6	3.7	0.00	0.0	263.7	0.467	1.786	2.143	4.59	
CPT-5	59.38	6.2	387.9	2.34	115	7603	4281	259.4	179.3	0.61	1.6	4.0	0.00	0.0	259.4	0.467	1.703	2.044	4.38	
CPT-5	59.41	6.2	369.8	2.29	115	7606	4283	247.2	170.8	0.63	1.6	4.4	0.00	0.0	247.2	0.467	1.485	1.783	3.82	
CPT-5	59.45	6.2	364.5	2.18	115	7611	4285	243.6	168.3	0.60	1.6	4.3	0.00	0.0	243.6	0.467	1.425	1.710	3.66	
CPT-5	59.48	6.2	359.7	2.09	115	7614	4287	240.4	166.0	0.59	1.6	4.3	0.00	0.0	240.4	0.467	1.372	1.646	3.53	
CPT-5	59.53	6.2	363.1	1.93	115	7620	4289	242.6	167.5	0.54	1.6	3.8	0.00	0.0	242.6	0.467	1.407	1.689	3.62	
CPT-5	59.59	6.2	379.7	1.81	105	7627	4292	253.6	175.1	0.48	1.5	3.2	0.00	0.0	253.6	0.467	1.596	1.916	4.10	
CPT-5	59.64	6.2	388.5	1.7	105	7632	4295	259.4	179.1	0.44	1.5	2.7	0.00	0.0	259.4	0.467	1.703	2.044	4.38	
CPT-5	59.69	6.2	390	1.98	115	7638	4297	260.3	179.7	0.51	1.5	3.3	0.00	0.0	260.3	0.467	1.721	2.065	4.42	
CPT-5	59.72	6.2	389.8	2.18	115	7641	4298	260.1</												

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q _{IN}	Corr. Tip Q	Friction Ratio F	I _c	F.C. (%)	K _{CPT}	ΔQ _{IN}	(Q _{IN}) _s	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	60.13	6.2	358.1	2.34	115	7688	4320	238.4	163.9	0.66	1.6	4.9	0.00	0.0	238.4	0.412	1.340	1.608	3.91	
CPT-5	60.18	6.2	360.6	2.19	115	7694	4323	240.0	165.0	0.61	1.6	4.5	0.00	0.0	240.0	0.412	1.365	1.638	3.98	
CPT-5	60.21	6.2	358.9	2.12	115	7697	4324	238.8	164.2	0.60	1.6	4.4	0.00	0.0	238.8	0.412	1.347	1.616	3.93	
CPT-5	60.27	6.2	372	2.02	115	7704	4327	247.4	170.1	0.55	1.6	3.8	0.00	0.0	247.4	0.412	1.489	1.787	4.34	
CPT-5	60.33	6.2	373.1	2.2	115	7711	4330	248.1	170.5	0.60	1.6	4.2	0.00	0.0	248.1	0.412	1.500	1.800	4.37	
CPT-5	60.36	6.2	372.9	2.45	115	7715	4332	247.9	170.3	0.66	1.6	4.7	0.00	0.0	247.9	0.412	1.497	1.796	4.36	
CPT-5	60.4	6.2	372.5	2.68	115	7719	4334	247.6	170.0	0.73	1.6	5.1	0.00	0.8	248.4	0.412	1.505	1.806	4.39	
CPT-5	60.43	6.2	370.1	2.76	125	7723	4336	245.9	168.9	0.75	1.7	5.3	0.01	2.3	248.2	0.412	1.502	1.802	4.38	
CPT-5	60.47	6.2	370.3	2.77	125	7728	4338	246.0	168.9	0.76	1.7	5.4	0.01	2.4	248.4	0.412	1.505	1.806	4.38	
CPT-5	60.53	6.2	381.4	2.05	115	7735	4342	253.3	173.8	0.54	1.6	3.7	0.00	0.0	253.3	0.412	1.591	1.909	4.63	
CPT-5	60.59	6.2	391.2	1.92	105	7742	4345	259.7	178.2	0.50	1.5	3.2	0.00	0.0	259.7	0.412	1.708	2.050	4.98	
CPT-5	60.63	6.2	387.4	2.23	115	7746	4347	257.1	176.4	0.58	1.6	3.9	0.00	0.0	257.1	0.412	1.660	1.992	4.84	
CPT-5	60.68	6.2	381.4	2.7	115	7752	4349	253.0	173.5	0.72	1.6	4.9	0.00	0.0	253.0	0.412	1.587	1.904	4.62	
CPT-5	60.73	6.2	370.1	3.14	125	7758	4352	245.5	168.2	0.86	1.7	6.0	0.03	7.1	252.5	0.412	1.578	1.893	4.59	
CPT-5	60.77	6.2	363.6	3.48	125	7763	4355	241.1	165.1	0.97	1.7	6.9	0.05	12.5	253.6	0.412	1.597	1.917	4.65	
CPT-5	60.85	6.2	396.4	3.61	125	7773	4360	262.7	180.0	0.92	1.7	6.0	0.03	7.5	270.2	0.412	1.915	2.298	5.57	
CPT-5	60.92	6.2	402.8	3.61	125	7782	4364	266.8	182.7	0.90	1.7	5.9	0.02	6.3	273.1	0.412	1.974	2.369	5.75	
CPT-5	60.99	6.2	409.5	3.97	125	7790	4368	271.1	185.6	0.98	1.7	6.2	0.03	9.1	280.2	0.412	2.127	2.552	6.19	
CPT-5	61.05	6.2	402.6	3.5	125	7798	4372	266.4	182.3	0.88	1.7	5.7	0.02	5.2	271.6	0.412	1.942	2.331	5.65	
CPT-5	61.12	6.2	387.2	3.21	125	7807	4376	256.1	175.1	0.84	1.7	5.7	0.02	4.8	260.9	0.412	1.731	2.077	5.04	
CPT-5	61.19	6.2	381.5	3.03	125	7815	4381	252.2	172.3	0.80	1.7	5.6	0.01	3.8	256.0	0.413	1.640	1.967	4.77	
CPT-5	61.26	6.2	353.6	2.79	125	7824	4385	233.6	159.4	0.80	1.7	6.0	0.03	6.3	239.9	0.413	1.364	1.637	3.97	
CPT-5	61.32	6.2	347.7	2.68	125	7832	4389	229.6	156.6	0.78	1.7	6.0	0.03	6.1	235.7	0.413	1.298	1.558	3.77	
CPT-5	61.39	6.2	347	2.52	115	7840	4393	229.1	156.1	0.73	1.7	5.7	0.02	4.2	233.3	0.413	1.260	1.512	3.66	
CPT-5	61.46	6.2	357.7	2.26	115	7848	4397	236.0	160.8	0.64	1.6	4.8	0.00	0.0	236.0	0.413	1.303	1.563	3.79	
CPT-5	61.53	6.2	354.2	2.21	115	7856	4401	233.6	159.1	0.63	1.6	4.8	0.00	0.0	233.6	0.413	1.266	1.519	3.68	
CPT-5	61.59	6.2	339.1	2.16	115	7863	4404	223.6	152.2	0.64	1.6	5.2	0.00	1.1	224.7	0.413	1.135	1.362	3.30	
CPT-5	61.66	6.2	316.4	2.13	115	7871	4408	208.5	141.7	0.68	1.7	5.9	0.02	5.1	213.6	0.413	0.986	1.184	2.87	
CPT-5	61.73	6.2	292.1	2.13	115	7879	4411	192.4	130.6	0.74	1.7	6.8	0.05	9.9	202.4	0.413	0.851	1.021	2.47	
CPT-5	61.8	6.2	282.9	2.07	115	7887	4415	186.3	126.3	0.74	1.7	7.1	0.06	11.0	197.3	0.413	0.794	0.953	2.31	
CPT-5	61.86	6.2	276.9	1.96	115	7894	4418	182.3	123.5	0.72	1.7	7.1	0.06	10.6	192.9	0.413	0.747	0.897	2.17	
CPT-5	61.93	6.2	271.3	1.9	115	7902	4422	178.5	120.9	0.71	1.8	7.2	0.06	10.9	189.4	0.413	0.712	0.854	2.07	
CPT-5	62	6.2	271.8	2.01	115	7910	4425	178.8	121.0	0.75	1.8	7.4	0.07	12.5	191.2	0.413	0.730	0.877	2.12	
CPT-5	62.06	6.2	278.3	2.09	115	7917	4429	183.0	123.8	0.76	1.8	7.4	0.06	12.3	195.3	0.413	0.773	0.927	2.24	
CPT-5	62.13	6.2	279.4	2.12	115	7925	4432	183.6	124.2	0.77	1.8	7.4	0.06	12.6	196.2	0.413	0.782	0.939	2.27	
CPT-5	62.19	6.2	279.7	2.16	125	7932	4435	183.8	124.3	0.78	1.8	7.5	0.07	13.1	196.9	0.414	0.790	0.948	2.29	
CPT-5	62.25	6.2	273.6	2.09	115	7940	4439	179.7	121.4	0.78	1.8	7.6	0.07	13.4	193.1	0.414	0.749	0.899	2.17	
CPT-5	62.32	6.2	271.6	1.96	115	7948	4443	178.3	120.4	0.73	1.8	7.3	0.06	11.9	190.2	0.414	0.720	0.864	2.09	
CPT-5	62.38	6.2	276.8	1.79	115	7955	4446	181.6	122.7	0.66	1.7	6.6	0.04	8.3	189.9	0.414	0.717	0.861	2.08	
CPT-5	62.44	6.2	286.8	1.78	115	7962	4449	188.1	127.1	0.63	1.7	6.2	0.03	6.2	194.3	0.414	0.762	0.915	2.21	
CPT-5	62.5	6.2	302.2	1.88	115	7969	4452	198.2	133.9	0.63	1.7	5.9	0.02	4.7	202.8	0.414	0.856	1.027	2.48	
CPT-5	62.56	6.2	308.9	1.86	115	7976	4456	202.5	136.8	0.61	1.7	5.6	0.02	3.1	205.6	0.414	0.888	1.066	2.58	
CPT-5	62.61	6.2	313.6	1.74	115	7981	4458	205.5	138.8	0.56	1.6	5.1	0.00	0.6	206.1	0.414	0.894	1.073	2.59	
CPT-5	62.65	6.2	319.4	1.64	115	7986	4460	209.3	141.4	0.52	1.6	4.7	0.00	0.0	209.3	0.414	0.932	1.119	2.70	
CPT-5	62.7	6.2	308.2	1.47	105	7992	4463	201.9	136.3	0.48	1.6	4.6	0.00	0.0	201.9	0.414	0.845	1.014	2.45	
CPT-5	62.75	6.2	306.7	1.47	105	7997	4465	200.8	135.5	0.49	1.6	4.6	0.00	0.0	200.8	0.414	0.833	1.000	2.41	
CPT-5	62.8	6.2	310.5	1.58	115	8002	4467	203.3	137.2	0.52	1.6	4.8	0.00	0.0	203.3	0.414	0.861	1.033	2.49	
CPT-5	62.84	6.2	309.9	1.7	115	8007	4469	202.8	136.8	0.56	1.6	5.1	0.00	0.8	203.6	0.414	0.865	1.038	2.51	
CPT-5	62.87	6.2	311.7	1.62	115	8010	4471	204.0	137.6	0.53	1.6	4.9	0.00	0.0	204.0	0.414	0.869	1.043	2.52	
CPT-5	62.9	6.2	311.9	1.56	105	8014	4472	204.1	137.6	0.51	1.6	4.7	0.00	0.0	204.1	0.414	0.870	1.044	2.52	
CPT-5	62.96	6.2	314.7	1.48	105	8020	4475	205.8	138.8	0.48	1.6	4.4	0.00	0.0	205.8	0.414	0.891	1.069	2.58	
CPT-5	63	6.2	287.4	1.39	105	8024	4477	187.9	126.6	0.49	1.6	5.1	0.00	0.5	188.4	0.414	0.702	0.842	2.03	
CPT-5	63.06	6.2	316.8	1.21	105	8030	4479	207.1	139.6	0.39	1.6	3.6	0.00	0.0	207.1	0.415	0.906	1.087	2.62	
CPT-5	63.13	6.2	313.8	1.13	105	8038	4482	205.1	138.2	0.36	1.5	3.5	0.00	0.0	205.1	0.415	0.882	1.059	2.55	
CPT-5	63.19	6.2	307.7	1.22	105	8044	4485	201.0	135.4	0.40	1.6	3.9	0.00	0.0	201.0	0.415	0.836	1.003	2.42	
CPT-5	63.25	6.2	288.7	1.18	105	8050	4487	188.6	126.8	0.41	1.6	4.4	0.00	0.0	188.6	0.415	0.704	0.844	2.04	
CPT-5	63.32	6.2	243.8	1.51	115	8058	4490	159.2	106.8	0.63	1.8	7.4	0.06	10.9	170.1	0.415	0.538	0.645	1.55	
CPT-5	63.39	6.2	184.5	2.27	135	8066	4494	120.4	80.3	1.26	2.0	14.3	0.25	39.6	160.0	0.415	0.461	0.553	1.33	
CPT-5	63.46	6.2	138.3	2.4	135	8075	4499	90.2	59.7	1.79	2.2	20.5	0.41	63.9	154.1	0.415	0.420	0.504	1.21	
CPT-5	63.53	6.2	90.6	2.45	135	8085	4504	59.1	38.4	2.83	2.5	31.6	0.71	144.4	203.5	0.415	0.864	1.037	2.50	
CPT-5	63.6	6.2	60.6	2.5	135	8094	4509	39.5	25.1	4.42	2.8	45.3	0.80	157.9	197.4	0.415	0.796	0.955	2.30	NonLiqfble.
CPT-5	63.67	6.2	38.1	2.35	135	8104	4514	24.8	15.1	6.90	3.1	64.1	0.80	99.2	124.1	0.415	0.258	0.309	0.74	NonLiqfble.
CPT-5	63.75	6.2	33.4	2.03	135	8114	4520													

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Conc	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip $Q_{(IN)}$	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	$\Delta Q_{(IN)}$	$Q_{(IN)}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	64.32	6.2	18.6	0.55	125	8188	4558	12.1	6.4	3.79	3.2	74.3	0.80	48.2	60.3	0.415	0.100	0.120	0.29	NonLiqfble.
CPT-5	64.4	6.2	18.5	0.53	125	8198	4563	12.0	6.3	3.68	3.2	74.0	0.80	47.9	59.9	0.415	0.100	0.120	0.29	NonLiqfble.
CPT-5	64.47	6.2	18.2	0.54	125	8206	4567	11.8	6.2	3.83	3.2	75.4	0.80	47.1	58.9	0.415	0.099	0.119	0.29	NonLiqfble.
CPT-5	64.54	6.2	19.4	0.56	125	8215	4572	12.6	6.7	3.66	3.2	72.2	0.80	50.2	62.8	0.416	0.103	0.124	0.30	NonLiqfble.
CPT-5	64.62	6.2	19.1	0.57	125	8225	4577	12.4	6.5	3.80	3.2	73.5	0.80	49.4	61.8	0.416	0.102	0.122	0.29	NonLiqfble.
CPT-5	64.69	6.2	19.9	0.59	125	8234	4581	12.9	6.9	3.74	3.2	71.8	0.80	51.5	64.3	0.416	0.105	0.126	0.30	NonLiqfble.
CPT-5	64.77	6.2	21.3	0.63	125	8244	4586	13.8	7.5	3.67	3.1	69.2	0.80	55.0	68.8	0.416	0.110	0.132	0.32	NonLiqfble.
CPT-5	64.84	6.2	21.4	0.67	125	8253	4590	13.8	7.5	3.88	3.2	70.1	0.80	55.3	69.1	0.416	0.111	0.133	0.32	NonLiqfble.
CPT-5	64.92	6.2	22.1	0.71	125	8263	4595	14.3	7.8	3.95	3.2	69.4	0.80	57.1	71.3	0.416	0.114	0.136	0.33	NonLiqfble.
CPT-5	64.99	6.2	22	0.75	125	8271	4600	14.2	7.8	4.20	3.2	70.7	0.80	56.8	71.0	0.416	0.113	0.136	0.33	NonLiqfble.
CPT-5	65.07	6.2	21.6	0.77	125	8281	4605	13.9	7.6	4.41	3.2	72.3	0.80	55.7	69.6	0.416	0.111	0.134	0.32	NonLiqfble.
CPT-5	65.15	6.2	20.6	0.78	125	8291	4610	13.3	7.1	4.74	3.2	75.5	0.80	53.1	66.4	0.416	0.107	0.129	0.31	NonLiqfble.
CPT-5	65.23	6.2	20.4	0.77	125	8301	4615	13.1	7.0	4.74	3.2	75.8	0.80	52.6	65.7	0.416	0.106	0.128	0.31	NonLiqfble.
CPT-5	65.3	6.2	20.1	0.73	125	8310	4619	12.9	6.9	4.58	3.2	75.7	0.80	51.8	64.7	0.416	0.105	0.126	0.30	NonLiqfble.
CPT-5	65.38	6.2	19.7	0.7	125	8320	4624	12.7	6.7	4.51	3.2	76.1	0.80	50.7	63.4	0.416	0.104	0.124	0.30	NonLiqfble.
CPT-5	65.46	6.2	19.7	0.69	125	8330	4629	12.7	6.7	4.44	3.2	75.9	0.80	50.7	63.3	0.416	0.104	0.124	0.30	NonLiqfble.
CPT-5	65.54	6.2	19.9	0.7	125	8340	4634	12.8	6.8	4.45	3.2	75.6	0.80	51.2	64.0	0.416	0.104	0.125	0.30	NonLiqfble.
CPT-5	65.62	6.2	19.1	0.71	125	8350	4639	12.3	6.4	4.76	3.3	78.5	0.80	49.1	61.3	0.416	0.101	0.122	0.29	NonLiqfble.
CPT-5	65.7	6.2	19	0.73	125	8360	4644	12.2	6.4	4.93	3.3	79.4	0.80	48.8	61.0	0.416	0.101	0.121	0.29	NonLiqfble.
CPT-5	65.78	6.2	18.2	0.74	125	8370	4649	11.7	6.0	5.28	3.3	82.6	0.80	46.7	58.4	0.416	0.099	0.118	0.28	NonLiqfble.
CPT-5	65.85	6.2	18.3	0.76	125	8379	4654	11.7	6.1	5.39	3.3	82.8	0.80	46.9	58.7	0.416	0.099	0.119	0.28	NonLiqfble.
CPT-5	65.93	6.2	18.1	0.76	125	8389	4659	11.6	6.0	5.47	3.3	83.6	0.80	46.4	58.0	0.416	0.098	0.118	0.28	NonLiqfble.
CPT-5	66.02	6.2	18.3	0.75	125	8400	4664	11.7	6.0	5.32	3.3	82.7	0.80	46.9	58.6	0.416	0.099	0.118	0.28	NonLiqfble.
CPT-5	66.1	6.2	18.2	0.75	125	8410	4669	11.7	6.0	5.36	3.3	83.1	0.80	46.6	58.3	0.416	0.098	0.118	0.28	NonLiqfble.
CPT-5	66.18	6.2	18.7	0.75	125	8420	4674	12.0	6.2	5.18	3.3	81.3	0.80	47.9	59.8	0.417	0.100	0.120	0.29	NonLiqfble.
CPT-5	66.26	6.2	19	0.76	125	8430	4679	12.2	6.3	5.14	3.3	80.6	0.80	48.6	60.8	0.417	0.101	0.121	0.29	NonLiqfble.
CPT-5	66.34	6.2	18.9	0.76	125	8440	4684	12.1	6.3	5.18	3.3	81.0	0.80	48.3	60.4	0.417	0.101	0.121	0.29	NonLiqfble.
CPT-5	66.42	6.2	19.8	0.85	125	8450	4689	12.7	6.6	5.46	3.3	80.4	0.80	50.6	63.3	0.417	0.104	0.124	0.30	NonLiqfble.
CPT-5	66.5	6.2	19.7	0.92	135	8460	4694	12.6	6.6	5.95	3.3	82.5	0.80	50.3	62.9	0.417	0.103	0.124	0.30	NonLiqfble.
CPT-5	66.58	6.2	20.7	0.92	135	8471	4700	13.2	7.0	5.59	3.3	79.4	0.80	52.8	66.1	0.417	0.107	0.128	0.31	NonLiqfble.
CPT-5	66.66	6.2	22.9	0.96	135	8482	4706	14.6	7.9	5.15	3.2	74.2	0.80	58.4	73.0	0.417	0.116	0.139	0.33	NonLiqfble.
CPT-5	66.74	6.2	21.7	1.03	135	8493	4712	13.8	7.4	5.90	3.3	79.0	0.80	55.3	69.2	0.417	0.111	0.133	0.32	NonLiqfble.
CPT-5	66.82	6.2	22.6	1.12	135	8503	4718	14.4	7.8	6.10	3.3	78.4	0.80	57.6	72.0	0.417	0.115	0.138	0.33	NonLiqfble.
CPT-5	66.89	6.2	21.8	1.15	135	8513	4723	13.9	7.4	6.56	3.3	81.2	0.80	55.5	69.4	0.417	0.111	0.133	0.32	NonLiqfble.
CPT-5	66.98	6.2	21.4	1.18	135	8525	4729	13.6	7.2	6.89	3.3	83.1	0.80	54.5	68.1	0.417	0.109	0.131	0.31	NonLiqfble.
CPT-5	67.06	6.2	23.2	1.23	135	8536	4735	14.8	8.0	6.50	3.3	79.0	0.80	59.0	73.8	0.417	0.117	0.141	0.34	NonLiqfble.
CPT-5	67.14	6.2	24	1.26	135	8547	4741	15.3	8.3	6.39	3.3	77.5	0.80	61.0	76.3	0.417	0.121	0.145	0.35	NonLiqfble.
CPT-5	67.22	6.2	25.9	1.38	135	8557	4747	16.4	9.1	6.38	3.2	75.0	0.80	65.8	82.2	0.417	0.132	0.158	0.38	NonLiqfble.
CPT-5	67.3	6.2	27.7	1.52	135	8568	4752	17.6	9.8	6.49	3.2	73.3	0.80	70.3	87.9	0.417	0.143	0.172	0.41	NonLiqfble.
CPT-5	67.38	6.2	28.7	1.59	135	8579	4758	18.2	10.3	6.51	3.2	72.3	0.80	72.8	91.0	0.417	0.150	0.180	0.43	NonLiqfble.
CPT-5	67.46	6.2	29	1.61	135	8590	4764	18.4	10.4	6.52	3.2	72.0	0.80	73.5	91.9	0.417	0.152	0.183	0.44	NonLiqfble.
CPT-5	67.54	6.2	29.1	1.57	135	8601	4770	18.4	10.4	6.33	3.2	71.4	0.80	73.7	92.2	0.417	0.153	0.183	0.44	NonLiqfble.
CPT-5	67.62	6.2	28.4	1.51	135	8611	4776	18.0	10.1	6.27	3.2	71.9	0.80	71.9	89.9	0.417	0.148	0.177	0.42	NonLiqfble.
CPT-5	67.7	6.2	27.2	1.42	135	8622	4781	17.2	9.6	6.20	3.2	73.1	0.80	68.8	86.1	0.417	0.139	0.167	0.40	NonLiqfble.
CPT-5	67.78	6.2	26.4	1.31	135	8633	4787	16.7	9.2	5.93	3.2	73.1	0.80	66.8	83.5	0.417	0.134	0.161	0.39	NonLiqfble.
CPT-5	67.86	6.2	25.6	1.22	135	8644	4793	16.2	8.9	5.73	3.2	73.4	0.80	64.7	80.9	0.417	0.129	0.155	0.37	NonLiqfble.
CPT-5	67.94	6.2	25.1	1.16	135	8655	4799	15.9	8.7	5.58	3.2	73.5	0.80	63.4	79.3	0.417	0.126	0.152	0.36	NonLiqfble.
CPT-5	68.02	6.2	24.2	1.15	135	8665	4805	15.3	8.3	5.79	3.2	75.5	0.80	61.1	76.4	0.417	0.121	0.146	0.35	NonLiqfble.
CPT-5	68.1	6.2	22.8	1.18	135	8676	4811	14.4	7.7	6.39	3.3	79.8	0.80	57.5	71.9	0.417	0.115	0.138	0.33	NonLiqfble.
CPT-5	68.18	6.2	23.2	1.19	135	8687	4816	14.6	7.8	6.31	3.3	78.9	0.80	58.5	73.1	0.417	0.116	0.140	0.33	NonLiqfble.
CPT-5	68.26	6.2	22.8	1.16	135	8698	4822	14.4	7.6	6.29	3.3	79.5	0.80	57.5	71.8	0.417	0.114	0.137	0.33	NonLiqfble.
CPT-5	68.34	6.2	21	1.16	135	8709	4828	13.2	6.9	6.97	3.3	84.8	0.80	52.9	66.1	0.417	0.107	0.128	0.31	NonLiqfble.
CPT-5	68.41	6.2	20.1	1.14	135	8718	4833	12.7	6.5	7.24	3.4	87.4	0.80	50.6	63.3	0.417	0.104	0.124	0.30	NonLiqfble.
CPT-5	68.5	6.2	20	1.08	135	8730	4840	12.6	6.5	6.91	3.4	86.5	0.80	50.3	62.9	0.417	0.103	0.124	0.30	NonLiqfble.
CPT-5	68.58	6.2	20.4	1.02	135	8741	4845	12.8	6.6	6.36	3.3	83.9	0.80	51.3	64.1	0.417	0.105	0.125	0.30	NonLiqfble.
CPT-5	68.65	6.2	20.1	0.97	135	8750	4850	12.6	6.5	6.17	3.3	83.8	0.80	50.5	63.1	0.417	0.103	0.124	0.30	NonLiqfble.
CPT-5	68.73	6.2	19.9	0.94	135	8761	4856	12.5	6.4	6.06	3.3	83.9	0.80	50.0	62.5	0.417	0.103	0.123	0.30	NonLiqfble.
CPT-5	68.81	6.2	20.1	0.91	135	8772	4862	12.6	6.5	5.79	3.3	82.5	0.80	50.5	63.1	0.417	0.103	0.124	0.30	NonLiqfble.
CPT-5	68.89	6.2	19.9	0.91	135	8783	4868	12.5	6.4	5.87	3.3	83.2	0.80	49.9	62.4	0.417	0.103	0.123	0.30	NonLiqfble.
CPT-5	68.97	6.2	21.8	0.99	135	8794	4874	13.7	7.1	5.69	3.3	79.3	0.80	54.7	68.3	0.417	0.110	0.132	0.32	NonLiqfble.
CPT-5	69.05	6.2	23.5	1.1	135	8804	4879	14.7	7.8	5.76	3.2	76.9	0.80	58.9	73.6	0.417	0.117	0.140	0.34	NonLiqfble.
CPT-5	69.13	6.2	24.8	1.15	135	8815	4885	15.5	8.3	5.64										

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{TIN}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{TIN}	$(Q_{TIN})_{cs}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	69.83	6.2	21.1	1.01	135	8910	4936	13.1	6.7	6.07	3.3	82.3	0.80	52.6	65.7	0.417	0.106	0.128	0.31	NonLiqfble.
CPT-5	69.91	6.2	20.7	1.01	135	8921	4942	12.9	6.6	6.22	3.3	83.6	0.80	51.5	64.4	0.417	0.105	0.126	0.30	NonLiqfble.
CPT-5	69.99	6.2	21.1	1.03	135	8931	4948	13.1	6.7	6.19	3.3	82.9	0.80	52.5	65.6	0.417	0.106	0.128	0.31	NonLiqfble.
CPT-5	70.06	6.2	21.3	1.05	135	8941	4953	13.2	6.8	6.24	3.3	82.7	0.80	53.0	66.2	0.373	0.107	0.128	0.34	NonLiqfble.
CPT-5	70.14	6.2	21.9	1.08	135	8952	4959	13.6	7.0	6.20	3.3	81.6	0.80	54.4	68.0	0.373	0.109	0.131	0.35	NonLiqfble.
CPT-5	70.22	6.2	22.6	1.12	135	8962	4964	14.0	7.3	6.18	3.3	80.4	0.80	56.1	70.2	0.373	0.112	0.135	0.36	NonLiqfble.
CPT-5	70.3	6.2	23.8	1.15	135	8973	4970	14.8	7.8	5.95	3.3	77.9	0.80	59.1	73.9	0.373	0.117	0.141	0.38	NonLiqfble.
CPT-5	70.38	6.2	24.8	1.18	135	8984	4976	15.4	8.2	5.81	3.2	76.0	0.80	61.5	76.9	0.373	0.122	0.147	0.39	NonLiqfble.
CPT-5	70.45	6.2	25.2	1.24	135	8993	4981	15.6	8.3	5.99	3.2	76.1	0.80	62.5	78.1	0.373	0.124	0.149	0.40	NonLiqfble.
CPT-5	70.53	6.2	26.7	1.33	135	9004	4987	16.5	8.9	5.99	3.2	74.3	0.80	66.2	82.7	0.373	0.133	0.159	0.43	NonLiqfble.
CPT-5	70.61	6.2	28.6	1.48	135	9015	4993	17.7	9.6	6.14	3.2	72.7	0.80	70.8	88.5	0.373	0.145	0.173	0.46	NonLiqfble.
CPT-5	70.69	6.2	29.8	1.6	135	9026	4999	18.4	10.1	6.33	3.2	72.1	0.80	73.8	92.2	0.373	0.153	0.183	0.49	NonLiqfble.
CPT-5	70.81	6.2	32.4	1.74	135	9042	5007	20.0	11.1	6.24	3.2	69.3	0.80	80.1	100.2	0.373	0.173	0.208	0.56	NonLiqfble.
CPT-5	70.88	6.2	31.9	1.78	135	9051	5012	19.7	10.9	6.50	3.2	70.7	0.80	78.9	98.6	0.373	0.169	0.203	0.54	NonLiqfble.
CPT-5	70.96	6.2	31.1	1.78	135	9062	5018	19.2	10.6	6.70	3.2	72.1	0.80	76.8	96.0	0.373	0.162	0.195	0.52	NonLiqfble.
CPT-5	71.04	6.2	31.4	1.75	135	9073	5024	19.4	10.7	6.51	3.2	71.2	0.80	77.5	96.9	0.373	0.165	0.198	0.53	NonLiqfble.
CPT-5	71.12	6.2	30.5	1.74	135	9084	5030	18.8	10.3	6.70	3.2	72.8	0.80	75.3	94.1	0.373	0.157	0.189	0.51	NonLiqfble.
CPT-5	71.2	6.2	29.3	1.7	135	9095	5036	18.1	9.8	6.87	3.2	74.6	0.80	72.3	90.3	0.373	0.149	0.178	0.48	NonLiqfble.
CPT-5	71.27	6.2	28.3	1.63	135	9104	5041	17.4	9.4	6.86	3.2	75.7	0.80	69.8	87.2	0.373	0.142	0.170	0.46	NonLiqfble.
CPT-5	71.35	6.2	27.6	1.53	135	9115	5046	17.0	9.1	6.64	3.2	75.8	0.80	68.0	85.0	0.373	0.137	0.165	0.44	NonLiqfble.
CPT-5	71.43	6.2	27	1.44	135	9126	5052	16.6	8.9	6.42	3.2	75.8	0.80	66.5	83.1	0.373	0.133	0.160	0.43	NonLiqfble.
CPT-5	71.51	6.2	27.7	1.37	135	9137	5058	17.0	9.1	5.92	3.2	73.3	0.80	68.2	85.2	0.373	0.138	0.165	0.44	NonLiqfble.
CPT-5	71.59	6.2	27.5	1.33	135	9147	5064	16.9	9.1	5.80	3.2	73.1	0.80	67.6	84.5	0.373	0.136	0.163	0.44	NonLiqfble.
CPT-5	71.66	6.2	26.8	1.31	135	9157	5069	16.5	8.8	5.90	3.2	74.3	0.80	65.9	82.3	0.373	0.132	0.158	0.42	NonLiqfble.
CPT-5	71.74	6.2	26.1	1.3	135	9168	5075	16.0	8.5	6.04	3.2	75.8	0.80	64.1	80.2	0.373	0.128	0.153	0.41	NonLiqfble.
CPT-5	71.82	6.2	25.3	1.34	135	9178	5081	15.5	8.1	6.47	3.3	78.3	0.80	62.1	77.7	0.373	0.124	0.148	0.40	NonLiqfble.
CPT-5	71.9	6.2	25.7	1.35	135	9189	5086	15.8	8.3	6.40	3.3	77.6	0.80	63.1	78.8	0.373	0.126	0.151	0.40	NonLiqfble.
CPT-5	71.97	6.2	26.5	1.36	135	9199	5091	16.2	8.6	6.21	3.2	76.0	0.80	65.0	81.2	0.373	0.130	0.156	0.42	NonLiqfble.
CPT-5	72.05	6.2	28.5	1.43	135	9209	5097	17.5	9.4	5.98	3.2	72.9	0.80	69.9	87.3	0.373	0.142	0.170	0.46	NonLiqfble.
CPT-5	72.13	6.2	31.2	1.57	135	9220	5103	19.1	10.4	5.90	3.2	69.8	0.80	76.4	95.5	0.373	0.161	0.193	0.52	NonLiqfble.
CPT-5	72.21	6.2	32.3	1.75	135	9231	5109	19.8	10.8	6.32	3.2	70.3	0.80	79.1	98.9	0.373	0.170	0.204	0.55	NonLiqfble.
CPT-5	72.28	6.2	34.1	1.86	135	9240	5114	20.9	11.5	6.31	3.1	68.7	0.80	83.5	104.3	0.373	0.186	0.223	0.60	NonLiqfble.
CPT-5	72.36	6.2	35.3	1.92	135	9251	5120	21.6	12.0	6.26	3.1	67.6	0.80	86.3	107.9	0.374	0.197	0.236	0.63	NonLiqfble.
CPT-5	72.43	6.2	35.5	1.94	135	9261	5125	21.7	12.0	6.28	3.1	67.5	0.80	86.8	108.5	0.374	0.199	0.238	0.64	NonLiqfble.
CPT-5	72.51	6.2	35.1	1.93	135	9272	5131	21.4	11.9	6.34	3.1	68.0	0.80	85.8	107.2	0.374	0.195	0.233	0.63	NonLiqfble.
CPT-5	72.59	6.2	36.4	1.92	135	9282	5136	22.2	12.4	6.05	3.1	66.1	0.80	88.9	111.1	0.374	0.208	0.249	0.67	NonLiqfble.
CPT-5	72.66	6.2	38.3	1.94	135	9292	5142	23.4	13.1	5.76	3.1	63.7	0.80	93.5	116.9	0.374	0.228	0.274	0.73	NonLiqfble.
CPT-5	72.74	6.2	38.2	1.96	135	9303	5147	23.3	13.0	5.84	3.1	64.1	0.80	93.2	116.5	0.374	0.227	0.272	0.73	NonLiqfble.
CPT-5	72.82	6.2	38.1	1.93	135	9313	5153	23.2	13.0	5.77	3.1	64.0	0.80	92.9	116.1	0.374	0.226	0.271	0.72	NonLiqfble.
CPT-5	72.89	6.2	37	1.89	135	9323	5158	22.5	12.5	5.84	3.1	65.1	0.80	90.2	112.7	0.374	0.213	0.256	0.68	NonLiqfble.
CPT-5	72.97	6.2	36.7	1.85	135	9334	5164	22.3	12.4	5.78	3.1	65.1	0.80	89.4	111.7	0.374	0.210	0.252	0.67	NonLiqfble.
CPT-5	73.04	6.2	37.3	1.78	135	9343	5169	22.7	12.6	5.46	3.1	63.5	0.80	90.8	113.5	0.374	0.216	0.259	0.69	NonLiqfble.
CPT-5	73.12	6.2	37.3	1.73	135	9354	5175	22.7	12.6	5.30	3.1	63.0	0.80	90.7	113.4	0.374	0.216	0.259	0.69	NonLiqfble.
CPT-5	73.19	6.2	36.5	1.73	135	9363	5180	22.2	12.3	5.44	3.1	64.1	0.80	88.8	110.9	0.374	0.207	0.248	0.66	NonLiqfble.
CPT-5	73.27	6.2	35.2	1.76	135	9374	5186	21.4	11.8	5.77	3.1	66.3	0.80	85.5	106.9	0.374	0.194	0.232	0.62	NonLiqfble.
CPT-5	73.35	6.2	32.7	1.78	135	9385	5192	19.9	10.8	6.36	3.2	70.5	0.80	79.4	99.3	0.374	0.171	0.205	0.55	NonLiqfble.
CPT-5	73.42	6.2	31.8	1.77	135	9394	5197	19.3	10.4	6.53	3.2	71.9	0.80	77.2	96.5	0.374	0.164	0.196	0.53	NonLiqfble.
CPT-5	73.5	6.2	31.6	1.69	135	9405	5203	19.2	10.3	6.28	3.2	71.3	0.80	76.7	95.8	0.374	0.162	0.194	0.52	NonLiqfble.
CPT-5	73.57	6.2	31.5	1.62	135	9415	5208	19.1	10.3	6.05	3.2	70.7	0.80	76.4	95.5	0.374	0.161	0.193	0.52	NonLiqfble.
CPT-5	73.65	6.2	32.9	1.59	135	9425	5213	19.9	10.8	5.64	3.1	68.0	0.80	79.7	99.7	0.374	0.172	0.207	0.55	NonLiqfble.
CPT-5	73.72	6.2	34.9	1.58	135	9435	5219	21.1	11.6	5.24	3.1	64.8	0.80	84.6	105.7	0.374	0.190	0.228	0.61	NonLiqfble.
CPT-5	73.8	6.2	34.7	1.74	135	9446	5224	21.0	11.5	5.80	3.1	67.1	0.80	84.0	105.0	0.374	0.188	0.225	0.60	NonLiqfble.
CPT-5	73.88	6.2	34.1	1.84	135	9456	5230	20.6	11.2	6.26	3.2	69.2	0.80	82.5	103.2	0.374	0.182	0.218	0.58	NonLiqfble.
CPT-5	73.95	6.2	34.4	1.9	135	9466	5235	20.8	11.3	6.40	3.2	69.4	0.80	83.2	104.0	0.374	0.185	0.222	0.59	NonLiqfble.
CPT-5	74.02	6.2	33.5	1.9	135	9475	5240	20.2	11.0	6.61	3.2	70.9	0.80	81.0	101.2	0.374	0.177	0.212	0.57	NonLiqfble.
CPT-5	74.11	6.2	36.4	1.89	135	9488	5247	22.0	12.1	5.97	3.1	66.4	0.80	87.9	109.9	0.374	0.204	0.244	0.65	NonLiqfble.
CPT-5	74.18	6.2	37.5	1.87	135	9497	5252	22.6	12.5	5.71	3.1	64.7	0.80	90.6	113.2	0.374	0.215	0.258	0.69	NonLiqfble.
CPT-5	74.26	6.2	35.8	1.85	135	9508	5258	21.6	11.8	5.96	3.1	66.9	0.80	86.4	108.0	0.374	0.197	0.237	0.63	NonLiqfble.
CPT-5	74.34	6.2	32.1	1.79	135	9519	5264	19.4	10.4	6.55	3.2	72.1	0.80	77.4	96.8	0.374	0.164	0.197	0.53	NonLiqfble.
CPT-5	74.41	6.2	30	1.7	135	9528	5269	18.1	9.6	6.74	3.2	74.8	0.80	72.3	90.4	0.374	0.149	0.178	0.48	NonLiqfble.
CPT-5	74.49	6.2	28.4	1.6	135	9539	5274	17.1	9.0	6.77	3.2	76.7	0.80	68.4	85.5	0.374	0.138	0.166	0.44	NonLiqfble.
CPT-5	74.56	6.																		

Project Name: Baypointe Parkway
 Project Number: 7123.3.001.01
 Date: January 2006
 CPT Number: CPT-5
 Depth to Groundwater: 6.2 feet

EQ Magnitude (M_w): 7.1
 PGA (g): 0.539
 MSF: 1.20

Cone	Depth (FT)	Water Table (FT)	Tip Resist. (TSF)	Sleeve Frict. (TSF)	γ (PCF)	Total Stress (PSF)	Effective Stress (PSF)	Norm. Tip Q_{tip}	Corr. Tip Q	Friction Ratio F	I_c	F.C. (%)	K_{CPT}	ΔQ_{tip}	$(Q_{tip})_{ns}$	Induced Stress Ratio	Liquef. Stress M7.5	Liquef. Stress M7.10	Factor of Safety	Comments
CPT-5	75.24	6.2	20.7	1.09	135	9640	5329	12.4	6.0	6.86	3.4	88.8	0.80	49.6	62.0	0.374	0.102	0.123	0.33	NonLiqfble.
CPT-5	75.32	6.2	21.4	1.04	135	9651	5335	12.8	6.2	6.28	3.4	85.5	0.80	51.3	64.1	0.374	0.104	0.125	0.34	NonLiqfble.
CPT-5	75.4	6.2	21.1	0.96	135	9662	5341	12.6	6.1	5.90	3.3	84.7	0.80	50.5	63.2	0.374	0.103	0.124	0.33	NonLiqfble.
CPT-5	75.47	6.2	20.9	0.95	135	9671	5346	12.5	6.0	5.91	3.3	85.2	0.80	50.0	62.5	0.374	0.103	0.123	0.33	NonLiqfble.
CPT-5	75.55	6.2	21.4	0.95	135	9682	5351	12.8	6.2	5.74	3.3	83.6	0.80	51.2	64.0	0.374	0.104	0.125	0.33	NonLiqfble.
CPT-5	75.62	6.2	22.2	0.93	135	9691	5356	13.3	6.5	5.36	3.3	80.8	0.80	53.1	66.4	0.374	0.107	0.129	0.34	NonLiqfble.
CPT-5	75.7	6.2	22.2	0.91	135	9702	5362	13.3	6.5	5.25	3.3	80.4	0.80	53.1	66.3	0.374	0.107	0.129	0.34	NonLiqfble.
CPT-5	75.77	6.2	22.7	0.92	135	9712	5367	13.6	6.6	5.16	3.3	79.2	0.80	54.2	67.8	0.374	0.109	0.131	0.35	NonLiqfble.
CPT-5	75.85	6.2	23	0.94	135	9722	5373	13.7	6.7	5.18	3.3	78.9	0.80	54.9	68.6	0.374	0.110	0.132	0.35	NonLiqfble.
CPT-5	75.92	6.2	22.2	0.93	135	9732	5378	13.2	6.4	5.37	3.3	81.0	0.80	53.0	66.2	0.374	0.107	0.128	0.34	NonLiqfble.
CPT-5	76	6.2	21.5	0.91	135	9743	5384	12.8	6.2	5.47	3.3	82.6	0.80	51.3	64.1	0.374	0.104	0.125	0.34	NonLiqfble.
CPT-5	76.07	6.2	21	0.89	135	9752	5389	12.5	6.0	5.52	3.3	83.8	0.80	50.1	62.6	0.374	0.103	0.123	0.33	NonLiqfble.
CPT-5	76.15	6.2	21.1	0.85	135	9763	5395	12.6	6.0	5.24	3.3	82.5	0.80	50.3	62.8	0.374	0.103	0.124	0.33	NonLiqfble.
CPT-5	76.22	6.2	20.6	0.79	125	9772	5400	12.3	5.8	5.03	3.3	82.6	0.80	49.1	61.3	0.374	0.101	0.122	0.33	NonLiqfble.
CPT-5	76.3	6.2	20.3	0.75	125	9782	5405	12.1	5.7	4.87	3.3	82.5	0.80	48.3	60.4	0.374	0.100	0.121	0.32	NonLiqfble.
CPT-5	76.37	6.2	20.3	0.73	125	9791	5409	12.1	5.7	4.74	3.3	82.0	0.80	48.3	60.4	0.374	0.100	0.121	0.32	NonLiqfble.
CPT-5	76.45	6.2	20.3	0.73	125	9801	5414	12.1	5.7	4.74	3.3	82.0	0.80	48.3	60.4	0.374	0.100	0.121	0.32	NonLiqfble.
CPT-5	76.52	6.2	20.1	0.73	125	9810	5419	11.9	5.6	4.80	3.3	82.7	0.80	47.8	59.7	0.374	0.100	0.120	0.32	NonLiqfble.
CPT-5	76.6	6.2	20.5	0.73	125	9820	5424	12.2	5.7	4.68	3.3	81.5	0.80	48.7	60.9	0.374	0.101	0.121	0.32	NonLiqfble.
CPT-5	76.67	6.2	20.2	0.73	125	9829	5428	12.0	5.6	4.78	3.3	82.5	0.80	48.0	60.0	0.374	0.100	0.120	0.32	NonLiqfble.
CPT-5	76.74	6.2	20.5	0.73	125	9837	5433	12.2	5.7	4.69	3.3	81.5	0.80	48.7	60.8	0.374	0.101	0.121	0.32	NonLiqfble.
CPT-5	76.82	6.2	21.7	0.74	125	9847	5438	12.9	6.2	4.41	3.3	78.2	0.80	51.5	64.4	0.374	0.105	0.126	0.34	NonLiqfble.
CPT-5	76.9	6.2	22.3	0.75	125	9857	5443	13.2	6.4	4.32	3.2	76.7	0.80	52.9	66.1	0.374	0.107	0.128	0.34	NonLiqfble.
CPT-5	76.97	6.2	22.5	0.77	125	9866	5447	13.3	6.4	4.38	3.2	76.8	0.80	53.4	66.7	0.374	0.108	0.129	0.34	NonLiqfble.
CPT-5	77.05	6.2	23.4	0.82	135	9876	5452	13.9	6.8	4.44	3.2	75.6	0.80	55.5	69.3	0.374	0.111	0.133	0.36	NonLiqfble.
CPT-5	77.12	6.2	24.5	0.95	135	9886	5457	14.5	7.2	4.86	3.2	75.8	0.80	58.0	72.6	0.374	0.116	0.139	0.37	NonLiqfble.
CPT-5	77.2	6.2	26.2	1.22	135	9896	5463	15.5	7.8	5.74	3.3	77.0	0.80	62.0	77.5	0.374	0.123	0.148	0.40	NonLiqfble.
CPT-5	77.27	6.2	29.4	1.63	135	9906	5468	17.4	8.9	6.67	3.2	76.5	0.80	69.6	87.0	0.374	0.141	0.169	0.45	NonLiqfble.
CPT-5	77.34	6.2	35.7	2	135	9915	5473	21.1	11.2	6.51	3.2	70.0	0.80	84.5	105.6	0.374	0.189	0.227	0.61	NonLiqfble.
CPT-5	77.4	6.2	52.3	2.24	135	9923	5477	30.9	17.3	4.73	2.9	53.8	0.80	123.7	154.6	0.374	0.424	0.508	1.36	NonLiqfble.
CPT-5	77.47	6.2	52.5	2.91	135	9933	5482	31.0	17.3	6.12	3.0	58.5	0.80	124.1	155.1	0.374	0.427	0.513	1.37	NonLiqfble.
CPT-5	77.54	6.2	59.8	3.75	135	9942	5488	35.3	20.0	6.84	3.0	57.7	0.80	141.3	176.6	0.375	0.592	0.711	1.90	NonLiqfble.
CPT-5	77.62	6.2	81.2	4.32	135	9953	5493	47.9	27.7	5.67	2.8	47.7	0.80	191.7	239.7	0.375	1.360	1.633	4.36	NonLiqfble.
CPT-5	77.69	6.2	92.3	4.69	135	9963	5498	54.5	31.7	5.37	2.8	44.3	0.80	217.9	272.3	0.375	1.958	2.350	6.27	NonLiqfble.
CPT-5	77.76	6.2	91.9	4.95	140	9972	5504	54.2	31.6	5.70	2.8	45.4	0.80	216.8	271.0	0.375	1.931	2.317	6.19	NonLiqfble.
CPT-5	77.84	6.2	91.9	5.13	140	9983	5510	54.2	31.5	5.90	2.8	46.1	0.80	216.7	270.9	0.375	1.928	2.314	6.18	NonLiqfble.
CPT-5	77.91	6.2	95	5.13	140	9993	5515	56.0	32.6	5.70	2.8	44.9	0.80	223.9	279.9	0.375	2.118	2.542	6.79	NonLiqfble.
CPT-5	77.98	6.2	93.6	5.13	140	10003	5521	55.1	32.1	5.79	2.8	45.5	0.80	220.5	275.6	0.375	2.027	2.432	6.49	NonLiqfble.
CPT-5	78.05	6.2	87.7	5.06	140	10013	5526	51.6	29.9	6.12	2.8	47.7	0.80	206.5	258.1	0.375	1.679	2.015	5.38	NonLiqfble.
CPT-5	78.13	6.2	84.1	4.86	135	10024	5532	49.5	28.6	6.15	2.8	48.6	0.80	197.9	247.4	0.375	1.488	1.785	4.77	NonLiqfble.
CPT-5	78.2	6.2	84	4.74	135	10033	5537	49.4	28.5	6.00	2.8	48.2	0.80	197.6	247.0	0.375	1.481	1.777	4.74	NonLiqfble.
CPT-5	78.27	6.2	81.5	4.63	135	10043	5542	47.9	27.6	6.05	2.9	49.0	0.80	191.6	239.5	0.375	1.358	1.629	4.35	NonLiqfble.
CPT-5	78.34	6.2	72	4.37	135	10052	5547	42.3	24.1	6.53	2.9	52.9	0.80	169.2	211.5	0.375	0.960	1.152	3.07	NonLiqfble.
CPT-5	78.42	6.2	59.7	3.75	135	10063	5553	35.1	19.7	6.86	3.0	58.1	0.80	140.2	175.3	0.375	0.581	0.697	1.86	NonLiqfble.
CPT-5	78.49	6.2	52.3	3.36	135	10072	5558	30.7	17.0	7.11	3.1	62.0	0.80	122.8	153.5	0.375	0.416	0.499	1.33	NonLiqfble.
CPT-5	78.56	6.2	48.1	2.97	135	10082	5563	28.2	15.5	6.90	3.1	63.5	0.80	112.9	141.1	0.375	0.341	0.409	1.09	NonLiqfble.
CPT-5	78.64	6.2	46.5	2.78	135	10093	5569	27.3	14.9	6.71	3.1	63.8	0.80	109.1	136.3	0.375	0.316	0.379	1.01	NonLiqfble.
CPT-5	78.7	6.2	46.1	2.58	135	10101	5574	27.0	14.7	6.29	3.1	62.7	0.80	108.1	135.1	0.375	0.309	0.371	0.99	NonLiqfble.
CPT-5	78.78	6.2	45.5	2.56	135	10112	5579	26.7	14.5	6.33	3.1	63.2	0.80	106.6	133.3	0.375	0.300	0.360	0.96	NonLiqfble.
CPT-5	78.85	6.2	53.5	2.64	135	10121	5585	31.3	17.3	5.45	3.0	56.3	0.80	125.3	156.6	0.375	0.437	0.525	1.40	NonLiqfble.
CPT-5	78.92	6.2	60.2	2.7	135	10130	5590	35.2	19.7	4.90	2.9	51.7	0.80	140.9	176.2	0.375	0.588	0.706	1.88	NonLiqfble.
CPT-5	78.99	6.2	56.9	2.65	135	10140	5595	33.3	18.5	5.11	2.9	53.7	0.80	133.1	166.4	0.375	0.509	0.610	1.63	NonLiqfble.
CPT-5	79.06	6.2	50.2	2.63	135	10149	5600	29.4	16.1	5.83	3.0	59.2	0.80	117.4	146.8	0.375	0.374	0.449	1.20	NonLiqfble.
CPT-5	79.13	6.2	44.9	2.63	135	10159	5605	26.2	14.2	6.60	3.1	64.6	0.80	105.0	131.2	0.375	0.290	0.348	0.93	NonLiqfble.
CPT-5	79.2	6.2	41.4	2.59	135	10168	5610	24.2	12.9	7.13	3.1	68.4	0.80	96.7	120.9	0.375	0.244	0.293	0.78	NonLiqfble.
CPT-5	79.27	6.2	42.2	2.5	135	10178	5615	24.6	13.2	6.74	3.1	66.7	0.80	98.6	123.2	0.375	0.254	0.305	0.81	NonLiqfble.
CPT-5	79.34	6.2	46.1	2.52	135	10187	5620	26.9	14.6	6.15	3.1	62.5	0.80	107.6	134.5	0.375	0.306	0.368	0.98	NonLiqfble.
CPT-5	79.4	6.2	50.5	2.6	135	10195	5624	29.5	16.1	5.73	3.0	58.8	0.80	117.8	147.3	0.375	0.377	0.453	1.21	NonLiqfble.
CPT-5	79.47	6.2	44.2	2.73	135	10205	5630	25.8	13.9	6.98	3.1	66.3	0.80	103.1	128.9	0.375	0.279	0.335	0.89	NonLiqfble.
CPT-5	79.54	6.2	36.8	2.89	135	10214	5635	21.5	11.2	9.12	3.3	77.5	0.80	85.8	107.3	0.375	0.195	0.234	0.62	NonLiqfble.
CPT-5	79.61	6.2	33.8	3.02	135	10224	5640	19.7	10.2	10.53	3.3	83.6	0.80	78.8	98.5	0.375	0.169	0.203		



Project No.
7123.3.001.01

May 31, 2006

Mr. John Moniz
Pinn Brothers Construction, Inc.
1475 Saratoga Avenue, Suite 250
San Jose, CA 95129

Subject: Baypointe Parkway
APN 097-07-46, 097-07-47 and 097-07-72
San Jose, California

SUMMARY OF GEOTECHNICAL HAZARDS

Reference: ENGEO Inc.; Preliminary Geotechnical Assessment, Baypointe Parkway, APN 097-07-46, 097-07-47 and 097-07-72, San Jose, California; January 13, 2006; Project No. 7123.3.001.01.

Dear Mr. Moniz:

With your authorization and as requested by your environmental consultant, we are summarizing the potential geotechnical/geologic hazards identified in the referenced report as they relate to the multi-family, residential development.

Site Seismicity

The site is not located within a State of California Earthquake Fault Hazard Zone (1982), nor within a City of San Jose Fault Hazard Zone (1983); however, a concealed, queried splay of the potentially active Silver Creek fault is shown to cross through the site on the City of San Jose Fault Hazard Zone (1983) map, CDMG (1974), and fault mapping by Jennings (1994). This feature is not zoned as requiring further study by the State of California or City of San Jose.

The site is not located within a Santa Clara County Geologic Hazard Zones (2002) for Fault Rupture Hazard; however, the site is located within a State of California Seismic Hazard Zone (2004) for Liquefaction Hazard (Milpitas Quadrangle).

Groundwater

At the northern and central portion of the site, groundwater was encountered at approximately 10 to 11 feet below the ground surface. At the southern end of the site, groundwater was

encountered at approximately 6 feet below the ground surface. Fluctuations in groundwater levels should be expected during seasonal changes or over a period of years because of precipitation changes, perched zones, changes in drainage patterns, and irrigation. Groundwater levels will be reassessed in future design-level studies.

Summary of Findings and Conclusions

The main geotechnical concerns for the proposed site development include: (1) potential seismic hazards, (2) the presence of potentially expansive near-surface soils, (3) potential load-induced settlement; and (4) the anticipated existence of shallow groundwater.

Based on topographic and lithologic data, risk from earthquake-induced lurch cracking, regional subsidence or uplift, tsunamis, landslides and seiches is considered low at the site. Since no known active faults cross the site, it is our opinion that ground rupture is not likely to occur at the site. Additionally, the offset or strain from ground lurching is expected to be low to negligible at the site. These items, therefore, do not pose a significant impact to residential development at the site.

Ground Shaking. An earthquake of moderate to high magnitude generated within the San Francisco Bay Region, similar to those which have occurred in the past, could cause considerable ground shaking at the site. To mitigate the shaking effects, all structures should be designed using sound engineering judgment and the latest International Uniform Building Code (UBC) requirements as a minimum. It is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996). Ground shaking will cause impacts to the site; however, they are mitigated with typical code-based design to acceptable standards.

Liquefaction. Preliminary liquefaction analyses of the CPT data followed general guidelines provided in DMG Special Publication 117 (1997), SCEC (1999), Robertson and Wride (1997), Robertson and Campanella (1988), Finn (1996), Youd et al. (1997), and Seed et al. (1982). Our analysis indicated that the sand and silt layers displayed multiple lenses that are potentially liquefiable ($FS < 1.2$).

Based on Ishihara (1985), due to the depth of the potentially liquefiable soils and thickness of non-liquefiable material above those materials, it does not appear that these zones are susceptible to ground failure. If site grades are significantly lowered due to excavation for subterranean structures, there is an increased potential for ground failure. If site grades are not lowered, these zones are not considered susceptible to ground failure. The effects of liquefaction do not pose a significant impact to residential development.

Densification Due to Earthquake Shaking. Densification of the sandy soils above and below groundwater levels can result in settlement/densification during an earthquake. The granular deposits encountered in the probes are estimated to undergo up to 2.5 inches of earthquake-induced densification (total). Preliminary foundation design should incorporate a

differential settlement of 1.25 inch over a 40-foot length/width or between column supports, whichever is less.

Use of a mat foundation (either post-tensioned or conventionally reinforced) is a common, generally cost-effective foundation system to address differential settlement caused by earthquakes. Alternatively, ground improvement techniques such as subexcavation to remove densifiable soils or dynamic compaction could be considered. The effects of earthquake-induced densification do not pose a significant impact to residential development at the site.

Expansive Soils

Soil samples were not collected during our preliminary exploration; however, the correlation of clays noted in the CPT probes and our past experience in the general area indicates the likely presence of expansive soils. Expansive soils shrink and swell as a result of moisture changes. Successful development on expansive soils requires special attention during construction. It is imperative that exposed soils be kept moist at all times prior to and during construction. It is difficult to remoisturize dry, clayey soil without excavation, moisture conditioning and recompaction. Long-term mitigation measures should also include the prevention of moisture variation.

Conventional grading operations, incorporating fill placement specifications tailored to the expansive characteristics of the soil, and use of a mat foundation (either post-tensioned or conventionally reinforced) are common, generally cost-effective measures to address the expansive potential of the foundation soils. Expansive soils do not pose a significant impact to residential development.

Load-Induced Settlement

As depicted in the CPT data collected, portions of the clay material are medium stiff. Some of these materials may be subject to load-induced settlement (compression) under the weight of new fills or building loads.

Laboratory testing and analysis during a design-level study will be necessary to determine the amount of potential settlement. Design of a mat or deep foundation system is common practice to address the potential for settlement. Load-induced settlement is not expected to pose a significant impact to residential development.

Shallow Groundwater

Groundwater was encountered at elevations ranging from 6 to 11 feet below ground surface (bgs). Temporary dewatering systems might be required during construction. Permanent basements will require designs that consider the presence of high groundwater levels. In addition, fluctuations in groundwater levels should be expected during seasonal changes over a period of years because of precipitation changes, perched zones, changes in drainage patterns, and irrigation. Shallow groundwater should not pose a significant impact to residential development.

Existing or Undocumented Fill

Undocumented fill conditions may arise at the site, such as around the existing improvements and as utility trench backfill. Depending upon planned cuts and fills for the development, fill thicknesses across individual building pads may need mitigation to prevent adverse impacts to the performance of the foundation systems.

The most common mitigation method for existing fills is simply to remove the existing fills to expose native soil and replace as engineered fill under the observation of a geotechnical engineer or their field representative. Existing or undocumented fills do not pose a significant impact to residential development.

CLOSING

We are pleased to have been of service on this project and are prepared to consult further with you and your design team as the project progresses. If you have any questions regarding the contents of this letter, please do not hesitate to contact us.

Very truly yours,

ENGEO INCORPORATED


4 Julia A. Moriarty, GE
jam/cc:summary

Reviewed by:


Paul C. Guerin, GE





Project No. E8420-06-01
September 12, 2007

VIA ELECTRONIC AND U.S. MAIL

Mr. Brian Pianca
Trammell Crow Residential
1810 Gateway Drive, Suite 240
San Mateo, California 94404

Subject: 166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA
GEOTECHNICAL PEER REVIEW

Dear Mr. Pianca:

In accordance with your authorization, we performed a peer review of the following document: *Preliminary Geotechnical Assessment, Baypointe Parkway, San Jose, California*, prepared by Engeo Incorporated, dated January 13, 2006 (the Report). The proposed project consists of residential development on 2.86 acres located at 166 Baypointe Parkway in San Jose, California (the Site).

PURPOSE AND SCOPE

The purpose of our peer review was to evaluate whether the Report generally conforms to the standard of practice as we understand it for the area at the time the Report was prepared. Additionally, our peer review was performed to evaluate the Report's applicability to the proposed development at the Site. In general, our review was based on the information presented in the Report, as well as our experience on similar projects in the area.

SITE AND PROJECT DESCRIPTION

The Report was prepared for an 11.4-acre property, of which the Site occupies the southwestern 2.8 acres. We understand a building and surface parking areas are presently located on the Site. Proposed development is expected to consist of removing existing structures and constructing a new multi-family residential building. The new building may consist of four to five stories of wood-frame construction over a podium level, above two to three levels of concrete garage construction. The bottom garage level may be partially or fully below-grade. Typical foundations for similar size structures in the area consist of moderately loaded, strip and spread footings with concrete slabs-on-grade, or mat foundations.

CONCLUSIONS AND CONSIDERATIONS

In our opinion, the Report generally conforms to the standard of practice as we understand it for the area at the time the Report was prepared. We note that the Report is preliminary in nature and concur with the Report's statement that additional geotechnical exploration will be required for final design. The following considerations are presented for review during initial planning stages for the Site:

1. The Report predicts liquefaction may occur at the Site during a strong nearby earthquake. Resulting foundation settlements are estimated to be 2.5 inches total and 1.25 inches differential.

2. We concur with the Report that feasible foundation types for the Site would include either post-tensioned or conventional mat foundations. Due to the estimated liquefaction settlements, strip and spread footings would likely not be feasible for the Site.
3. Groundwater was encountered at a depth of approximately 6 feet. Construction of partially or fully below-grade structures would require dewatering, subgrade stabilization, and waterproofing.
4. The presence of near-surface fills is not known at this time. However, if fills are present they would likely be excavated for below-grade garage construction and not require mitigation.
5. The near-surface soils are likely highly expansive, generally requiring thicker pavement and flatwork sections.

LIMITATIONS

The geotechnical opinions presented herein pertain only to the Report reviewed. The evaluation of the potential presence of hazardous materials or environmental contamination was not part of our scope of services.

Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, either express or implied.

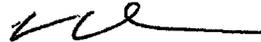
Please contact us if you have any questions concerning the contents of this letter or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



Robert G. Nixon, PE, GE
Senior Engineer



Jeremy J. Zorne, PE, GE
Senior Project Engineer

RGN:JJZ:jaj

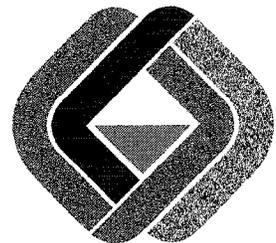
(1) Addressee

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

**166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA**

PREPARED FOR:
TRAMMELL CROW RESIDENTIAL
NORTHERN CALIFORNIA I
1810 GATEWAY DRIVE, SUITE 240
SAN MATEO, CALIFORNIA

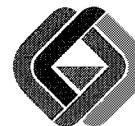
PREPARED BY:
GEOCON CONSULTANTS, INC.
6671 BRISA STREET
LIVERMORE, CALIFORNIA



GEOCON

GEOCON PROJECT No. E8420-06-01

OCTOBER 2007



Project No. E8420-06-01
October 2, 2007

Mr. Peter Solar
Trammell Crow Residential Northern California I
1810 Gateway Drive, Suite 240
San Mateo, California 94404

Subject: 166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Solar:

In accordance with your request, we have performed a Phase I Environmental Site Assessment (ESA) of one approximate 2.86-acre parcel located at 166 Baypointe Parkway (the Site) in San Jose, California. Trammell Crow Residential Northern California I requested the performance of a Phase I ESA for the Site to provide information regarding the potential for existing hazardous substances/petroleum hydrocarbon impacts prior to purchasing the Site for proposed residential development.

This report summarizes the findings of the Phase I ESA including the potential presence of recognized environmental conditions as defined by the American Society of Testing and Materials Designation E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

We appreciate the opportunity to have provided our services on this project. Please contact us should you have any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Chris Giuntoli
Project Manager

Rebecca L. Silva, REA
Sr. Project Scientist

CGG:RLS:rjk

(7) Addressee

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1. Vicinity Map
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- A. Geocon Proposal No. LE-07-033
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- G. EDR - Environmental Lien Report
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PHASE I ENVIRONMENTAL SITE ASSESSMENT

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (ESA) of an approximate 2.86-acre parcel at 166 Baypointe Parkway (the Site) located in San Jose, California. The Phase I ESA was performed at the request of Trammell Crow Residential (TCR) Northern California I to assess potential environmental conditions prior to purchasing the Site for proposed residential development.

1.1 Purpose

The purpose of the Phase I ESA was to identify potential "recognized environmental conditions" (RECs) as defined by the American Society for Testing and Materials (ASTM) Designation E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Section 1.1.1 of the ASTM Standard E 1527-05 defines a REC as "*the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.*" The term as further defined by ASTM "*is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of the enforcement action if brought to the attention of appropriate governmental agencies.*" "Historical RECs" are defined as an "*environmental condition, which in the past would have been considered a REC, but which may or may not be considered a REC currently.*"

The main components of this report, as specified by the referenced standards, include the following:

- **Physical Setting:** The objective of the physical setting references was reviewed to obtain information concerning the topographic, geologic, and hydrogeologic characteristics of the Site and vicinity. Such information may be indicative of the direction and/or extent that a contaminant could migrate in the event of a spill or release.
- **Records Review:** The objective of the records review was to obtain and review records that would help identify RECs at or potentially affecting the Site. We reviewed publicly available federal, state, and local regulatory agency records for the Site.
- **Site History:** The objective of consulting historical references was to develop a history of the previous uses of the Site and surrounding area in order to identify if past uses have led to RECs in connection with the Site. Historical sources reviewed included aerial photographs, topographic maps, and city directories. In addition, we conducted interviews with persons who were reasonably expected to be knowledgeable about historical and/or current conditions at and uses of the Site.
- **Site Reconnaissance:** The objective of the site reconnaissance was to obtain information indicating the likelihood of identifying RECs in connection with the Site. The site reconnaissance was for the Site and adjoining properties only and did not include moving onsite debris, vehicles, or other objects to allow for observation of the underlying ground surface. Offsite properties and features were viewed from the Site, nearby public rights-of-way, and via a drive-by reconnaissance of the surrounding area.

1.2 Scope of Services

Our Proposal No. LE-07-033, dated July 30, 2007, presents the scope of services proposed for the ESA. A copy of the proposal is presented in Appendix A. The scope of services outlined in the proposal was performed with the following exceptions:

- Sanborn Maps were not reviewed since Environmental Data Resources, Inc. (EDR) stated that Sanborn Map coverage does not exist for the Site.
- A chain-of-title report was not reviewed because one was not provided by TCR Northern California I.

1.3 Report Limitations

This Phase I ESA report has been prepared exclusively for the Client, TCR Northern California I. The information obtained is only relevant for the dates of the records reviewed or as of the date of the latest site visit. Therefore, the information contained herein is only valid as of the date of the report and will require an update to reflect recent records/site visits.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the site reconnaissance, a review of the specified regulatory records, and a review of the historical usage of the Site, as presented in this report. The Client should also understand that wetlands, asbestos-containing building materials, lead-containing paint, lead in drinking water, radon, mercury related to mining activities, methane, mold surveys, and vapor intrusion investigations were not included in the scope of services for this Phase I ESA. Potential naturally occurring hazards such as asbestos and arsenic also were not included.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the ESA is implied within the intent of this report or any subsequent reports, correspondence or consultation, either express or implied. We strived to conduct the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

1.4 Data Gaps

A data gap is defined by ASTM Standard E 1527-05 as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Data gaps could include such things as insufficient historical information, the inability to interview persons with direct site knowledge (i.e., the owner(s), past owner(s), tenants, workers, etc.) or the lack of access to all parts of a site during the site reconnaissance.

Sanborn Maps were not reviewed for the Site since EDR stated that Sanborn Map coverage was not available. Based on our review of additional historical information sources, we do not feel that a significant data gap is caused by not reviewing Sanborn Maps.

A chain-of-title report was not reviewed because one was not provided by the Client. Based on our review of additional historical information sources, we do not feel that a significant data gap is caused by not reviewing a chain-of-title report.

2.0 SITE DESCRIPTION

This section provides information regarding the location and physical characteristics of the Site including its size, topography and geologic, soil and hydrogeologic conditions.

2.1 Location and Legal Description

The Site consists of an approximate 2.86-acre parcel at 166 Baypointe Parkway in San Jose, California (Figure 1). The Site is depicted on the United States Geological Survey's (USGS) Milpitas, California, 7.5-minute topographic map (USGS, 1961, photorevised 1980) lying within Section 14, Township 6 South, Range 1 West, Mount Diablo Base and Meridian. The Site is further identified as Santa Clara County Assessor's Parcel Number (APN) 097-07-072. A copy of the Santa Clara County Assessor's Parcel Map depicting the legal site boundaries is presented in Appendix B.

2.2 Site and Vicinity General Characteristics

The Site consists of one parcel, which currently supports an approximate 53,000-square-foot, two-story commercial office building and associated parking lot. Adjacent properties generally consist of commercial development. A Site Plan depicting the site boundaries and adjacent properties is presented as Figure 2.

2.2.1 Topography

The topography of the Site is generally flat-lying at an approximate elevation of 15 feet above mean sea level based on review of the USGS Milpitas, CA topographic map (USGS, 1961, photorevised 1980). The nearest surface water bodies are the Guadalupe River and Coyote Creek located approximately ½ mile west and east of the Site, respectively.

2.2.2 Regional Geology

Information concerning the geologic conditions in proximity to the Site was obtained from a review of the *Geologic Map of the San Francisco-San Jose Quadrangle, California* (California Division of Mines and Geology, 1991). The Site is located within the central portion of the Coast Ranges Geomorphic Province, within the Santa Clara Valley. The Santa Clara Valley is situated at the southern end of the San Francisco Bay Area and is bounded by San Francisco Bay to the north, the Santa Cruz Mountains to the west and south, and the Diablo Range to the east. The geologic map indicates that the Site is underlain by Quaternary-aged alluvium deposits.

2.2.3 Soil Conditions

Information concerning the soil conditions at the Site was obtained from review of the report provided by Client titled, *Preliminary Geotechnical Assessment, Baypointe Parkway, San Jose, California*, dated January 13, 2006, prepared by ENGEO, Incorporated (ENGEO) [ENGEO Geotechnical Assessment]. The ENGEO Geotechnical Assessment reported that onsite soils consist of medium stiff to hard clay overlying medium dense to dense sands with interbedded clay, silt, gravel, and over-consolidated material to a depth of approximately 80 feet. A thick medium dense to very dense sand and gravel layer with thin interbedded silt layers was reported from approximately 33 feet to 65 feet before encountering a medium stiff to very stiff clay layer to a depth of approximately 80 feet.

2.2.4 Hydrogeology

The California State Water Resources Control Board (CSWRCB) Geotracker website (<http://geotracker.waterboards.ca.gov>) was checked for groundwater information at leaking underground storage tank (LUST) facilities near the Site. The depth to groundwater at the 199 River Oaks Parkway property located approximately ¼ mile southeast of the Site is reported as having been between 11 and 14 feet during a groundwater sampling event conducted in November 2005. The groundwater flow direction at the property was reported to be toward the west (Studemeister and Associates, 2006).

The ENGEO Geotechnical Assessment reported that groundwater was encountered at the Site at approximately 6.2 feet on December 23, 2005.

2.3 Current and Planned Uses of the Site

Currently the Site supports a two-story commercial office building and associated parking lot. Further description of the current site conditions is presented in Section 5.0. The proposed future use of the Site is residential development.

2.4 Descriptions of Structures, Roads, Other Improvements on the Site

One approximate 53,000-square-foot, two-story commercial office building is present at the Site. Asphalt paved parking lots and drive areas surround the building and landscaping is present along the north, south, and west site perimeters. Further description of the Site is presented in Section 5.0.

2.5 Current Uses of Adjoining Properties

Adjacent properties generally consist of commercial development. A Santa Clara Valley Transportation Authority (VTA) light-rail corridor is located immediately south of the Site within the median of E. Tasman Drive.

3.0 USER-PROVIDED INFORMATION

This section describes site information provided by the Client.

3.1 Title, Appraisal and Sale Agreement Records

Chain-of-title records for the Site were not provided by the Client.

3.2 Environmental Liens or Activity and Use Limitations

The Client is not aware of environmental liens on, or use limitations for, the Site.

3.3 Specialized Knowledge

The Client has no specialized knowledge regarding the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

The Client has no commonly known information or reasonably ascertainable information unique to the Site.

3.5 Valuation Reduction for Environmental Issues

The Client is not aware of any environmental conditions on the Site that may lead to a potential valuation reduction of the Site.

3.6 Owner, Property Manager, and Occupant Information

Per the request of the Client, we conducted an interview with Mr. Bill Cilker, Jr., son of the current property owners William H. Cilker and Leila A. Cilker. Information obtained from Mr. Bill Cilker, Jr. is presented in Section 6.0.

3.7 Reason for Performing Phase I

A Phase I ESA was requested by the Client to obtain information regarding the potential for existing hazardous substances/petroleum hydrocarbon impacts prior to purchasing the Site for proposed residential development.

4.0 RECORDS REVIEW

This section summarizes our review of readily available agency and historical records for the Site and properties and facilities in the surrounding vicinity. Regulatory agency records, historical aerial photographs, historical topographic maps, and city directory abstract were provided by EDR, an environmental data search firm.

4.1 Standard Environmental Record Sources

EDR performed a search of federal, state, and local databases for the Site and surrounding area. EDR's report entitled *The EDR Radius Map with GeoCheck, 166 Baypointe Parkway, San Jose, CA*, dated August 3, 2007, is presented in Appendix C. The following table lists databases that were searched and the number of listings.

Database Name	Search Radius (Miles)	Number of Listings
FEDERAL DATABASES		
NPL (National Priority List)	1.00	0
Proposed NPL	1.00	0
Delisted NPL (NPL Deletions)	1.00	0
NPL Liens (Federal Superfund Liens)	Site	0
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.50	0
CERC-NFRAP (No Further Remedial Action Planned)	0.50	1
CORRACTS (RCRA Corrective Action Sites List)	1.00	0
RCRA-TSD (RCRA Permitted Treatment, Storage, Disposal Facilities)	0.50	0
RCRA-LQG (RCRA Large Quantity Generators of Hazardous Waste)	0.25	0
RCRA-SQG (RCRA Small Quantity Generators of Hazardous Waste)	0.25	3
ERNS (Emergency Response Notification System)	Site	0
HMIRS (Hazardous Materials Information Reporting System)	Site	0
US ENG CONTROLS	0.50	0
US INST CONTROL	0.50	0
DOD (Department of Defense facilities)	1.00	0
FUDS (Formerly Used Defense Sites)	1.00	0
US BROWNFIELDS	0.50	0
CONSENT (Superfund Consent Decrees)	1.00	0

Database Name	Search Radius (Miles)	Number of Listings
ROD (Records of Decision)	1.00	0
UMTRA (Uranium Mill Tailings Sites)	0.50	0
ODI (Open Dump Inventory)	0.50	0
TRIS (Toxic Chemical Release Inventory System)	Site	0
TSCA (Toxic Substances Control Act)	Site	0
FTTS (FIFRA/TSCA Tracking System) – FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)/TSCA (Toxic Substances Control Act)	Site	0
SSTS (Section 7 Tracking Systems)	Site	0
Liens 2	Site	0
RADINFO (Radiation Information Database)	Site	0
CDL (Clandestine Drug Lab)	Site	0
HIST FTTS (FIFRA/TSCA Tracking System)	Site	0
ICIS (Integrated Compliance Information System)	Site	0
LUCIS (Land Use Control Information System)	0.50	0
DOT OPS (Department of Transportation, Office of Pipeline Safety)	Site	0
PADS (PCB Activity Database System)	Site	0
MLTS (Material Licensing Tracking System)	Site	0
MINES (Mines Master Index File)	0.25	0
FINDS (Facility Index System)	Site	0
RAATS (RCRA Administrative Action Tracking System)	Site	0
STATE AND LOCAL DATABASES		
Hist Cal-Sites (Potential/Confirmed Hazardous Substance Release Properties)	1.00	1
CA Bond Expenditure Plan	1.00	2
SCH (School Property Evaluation Program)	0.25	0
Toxic Pits	1.00	0
State Landfill	0.50	0
CA WDS (Waste Discharge System)	Site	0
WMUDS/SWAT (Waste Management Unit Database)	0.50	0
Cortese (Hazardous Waste and Substances Sites List)	0.50	1
SWRCY (Recycler Database)	0.50	0
LUST (Leaking Underground Storage Tanks)	0.50	0
CA FID UST (Facility Inventory Database)	0.25	0
HIST LUST SANTA CLARA (Santa Clara Co. Historical LUSTs)	0.50	1
SLIC (Spills, Leaks, Investigation and Cleanup Cost Recovery)	0.50	0
UST (Underground Storage Tank)	0.25	1
HIST UST (Historical USTs)	0.25	0
AST (Aboveground Petroleum Storage Tank Facilities)	0.25	0
LIENS	Site	0

Database Name	Search Radius (Miles)	Number of Listings
SAN JOSE HAZMAT (City of San Jose Hazardous Materials Facilities)	0.25	4
SWEEPS UST	0.25	0
CHMIRS (California Hazardous Material Incident Report System)	Site	0
Notify 65 (Proposition 65)	1.00	0
DEED	0.50	0
VCP (Voluntary Cleanup Program)	0.50	0
DryCleaners	0.25	0
WIP (Well Investigation Program)	0.25	0
CDL	Site	0
Response (State Response Sites)	1.00	2
HAZNET (Hazardous Waste Information System)	Site	1
EMI (Emissions Inventory Data)	Site	0
Envirostor (DTSC database)	1.00	5
TRIBAL RECORDS		
Indian Reservation	1.00	0
Indian LUST	0.50	0
Indian UST	0.25	0
EDR PROPRIETARY DATABASES		
Manufactured Gas Plants	1.00	0
EDR Historical Auto Stations	0.25	0
EDR Historical Cleaners	0.25	0

4.1.1 Site

The Site was listed on the Hazardous Waste Information System (HAZNET) database (two listings). Information included in the HAZNET database is obtained from copies of hazardous waste manifests received each year by the California Department of Toxic Substances Control (DTSC). The HAZNET listings were for JTS Corporation, a tenant at the Site in the mid-1990s (Section 4.3.3). The listings involved removal of 7 pounds of laboratory waste chemicals for disposal and 125 pounds of waste/mixed oil for recycling.

4.1.2 Offsite Properties

Based on the database search summarized in Section 4.1, following discussion provides additional information regarding the listed properties reportedly located less than ¼-mile upgradient or crossgradient from the Site, the status of their listings, and their potential, if any, to impact the Site.

RCRIS-SQG – This database identifies small quantity generators of hazardous wastes. One property within ¼ mile upgradient or crossgradient from the Site was listed in this database. However, based on information presented in the EDR report, the RCRIS-SQG property is not expected to pose an environmental concern to the Site.

SAN JOSE HAZMAT – This database identifies hazardous material facilities and underground storage tank (UST) sites listed in the City of San Jose Fire Department Records. Four properties within ¼ mile upgradient or crossgradient from the Site were listed in this database. However, based on information presented in the EDR report, none of the SAN JOSE HAZMAT properties is expected to pose an environmental concern to the Site.

UST – This database identifies active UST facilities compiled by local regulatory agencies. One property within ¼ mile upgradient or crossgradient from the Site was listed in this database. However, based on information presented in the EDR report, the UST property is not expected to pose an environmental concern to the Site.

4.1.3 Orphan Summary

The *Orphan Summary* identifies properties that have incomplete address information and could not be specifically plotted. A total of seven properties were listed in the *Orphan Summary*. One of the properties listed in the *Orphan Summary*, the Moitozo Property, was reported as located on Baypointe Drive (no street address) and was listed in the Spills, Leaks, Investigation and Cleanup Cost Recovery (SLIC) database. The Moitozo Property was listed in a California Regional Water Quality Control Board (RWQCB) San Francisco Bay Region Internal Memo, dated October 6, 2004, as impacted by pesticides and the property subsequently converted into 2,800 apartment units on 60 acres (now the North Park Apartments). The North Park Apartments are located off of Baypointe Drive approximately ¼ mile southwest of the Site. Based on information provided in the EDR report and RWQCB memo, as well as its location, no significant adverse impact to the Site is expected from the Moitozo Property.

Based on information provided in the EDR report, their locations, and the databases on which the properties were listed, no significant adverse impact to the Site is expected from the other six properties identified on the *Orphan Summary*.

4.1.4 Santa Clara County Department of Environmental Health

Santa Clara County Department of Environmental Health personnel stated that they have no regulatory compliance case files for the Site.

4.2 Additional Environmental Record Sources

We reviewed the California Department of Conservation – Division of Oil, Gas, and Geothermal Resources (DOGGR) website (<http://www.consrv.ca.gov/dog/>) for oil or gas wells within the site vicinity. Based on a review of DOGGR wildcat and field maps, no oil or gas wells are located on the Site or in the site vicinity.

4.3 Historical Use Information on the Site and Adjacent Properties

Historical use of the Site and adjacent properties was evaluated through review of historical aerial photographs, historical topographic maps, city directories, and prior environmental reports. This section summarizes the information obtained from these sources.

4.3.1 Historical Aerial Photographs

Historical aerial photographs for the years 1939, 1956, 1965, 1982, 1993, and 1998 provided by EDR were reviewed for indications of past land uses that had the potential to have impacted the Site through the use, storage or disposal of hazardous substances (Appendix D). The following table summarizes the observations of the Site and adjacent properties on the aerial photographs.

Year	Observations	
	Site	Adjacent and Vicinity Properties
1939 (1"=555')	The Site was used for agricultural purposes (orchard). No evidence of structures can be seen on the Site.	Land surrounding the Site was used for agricultural purposes (mix of row crops and orchards). Rural residential structures were located to the west and south of the Site. Agnews State Hospital was present southeast of the Site.
1956 (1"=555')	Conditions on the Site appear similar to those visible on the 1939 photograph.	Conditions on adjacent properties appear similar to those visible on the 1939 photograph.
1965 (1"=333')	Conditions on the Site appear similar to those visible on the 1956 photograph.	Conditions on adjacent properties appear similar to those visible on the 1956 photograph.
1982 (1"=690')	The Site was used for row crop agricultural purposes. No evidence of structures can be seen on the Site.	Conditions on adjacent properties appear similar to those visible on the 1965 photograph. A residential development was present further north and west of the Site. Commercial developments were present further northeast and south of the Site.
1993 (1"=666')	A commercial building and parking lot were present at the Site.	Baypointe Parkway was present north and west of the Site. E. Tasman Drive and commercial buildings were present south and east of the Site, respectively. Commercial buildings and vacant land were present north and west of the Site across Baypointe Parkway. Commercial buildings were present south of the Site across E. Tasman Drive. Additional commercial developments were present further west and south of the Site.

Year	Observations	
	Site	Adjacent and Vicinity Properties
1998 (1"=666')	Conditions on the Site appear similar to those visible on the 1993 photograph.	Conditions on adjacent properties appear similar to those visible on the 1993 photograph. Additional commercial development was present east of the Site.

No RECs were observed on the aerial photographs for the Site or adjacent properties.

4.3.2 Historical Topographic Maps

Historical USGS quadrangle topographic maps for Milpitas, California for the years 1953, 1961, 1968, 1973, and 1980 were obtained from EDR and reviewed to obtain information concerning the history of development on and in the vicinity of the Site. The following table summarizes the observations of the Site and adjacent properties on the topographic maps. Copies of the historical USGS topographic maps are presented in Appendix E.

Year	Depictions	
	Site	Adjacent and Vicinity Properties
1953	The Site was depicted as agricultural use (orchards). No evidence of structures was depicted at the Site.	Land surrounding the Site was depicted as a mix of agricultural and rural residential land use. Agnews State Hospital east and west areas were shown further southeast and southwest of the Site, respectively.
1961	The Site depiction was similar to that shown in the 1953 topographic map.	The depiction of adjacent and surrounding land was similar to that shown in the 1953 topographic map.
1968	The Site depiction was similar to that shown in the 1961 topographic map.	The depiction of adjacent and surrounding land was similar to that shown in the 1961 topographic map.
1973	The Site depiction was similar to that shown in the 1968 topographic map.	With the exception of new residential streets north of the Site, the depiction of adjacent and surrounding land was similar to that shown in the 1968 topographic map.
1980	The Site depiction was similar to that shown in the 1973 topographic map.	The depiction of adjacent land was similar to that shown in the 1973 topographic map. A trailer park and commercial development were shown north of the Site. Additional commercial developments were depicted west of the Site.

No information is depicted on the historical topographic maps of the Site and adjacent properties suggesting the potential to have caused RECs.

4.3.3 City Directories

A city directory abstract was obtained from EDR and reviewed to obtain information concerning the history of tenancy at and in the vicinity of the Site. We also reviewed Haines city directories for the years 1986, 1989, 1990-91, 1995-96, 1999-2000, and 2005 at the City of San Jose Library. The following table summarizes the listings noted for the Site. A copy of the EDR City Directory Abstract is presented in Appendix F.

Year	Listings
	Site
Pre-1985	No listing
1986	No listings for Baypointe Parkway
1989	Hyundai Electronics
1990-91	No listing
1995-96	Axil Workstations and JTS Corp.
1999-2000	William Cilker
2001/02	William Cilker
2005	Daily Silver IMP Technology, Inc.

4.3.4 Environmental Liens

An environmental lien search was conducted by EDR and reviewed to obtain information concerning potential environmental liens associated with the Site. The EDR environmental lien report identified the Site owners as William H. Cilker and Liela A. Cilker. No environmental liens or activity and use limitations were identified for the Site. A copy of the EDR environmental lien report is presented in Appendix G.

4.3.5 City of San Jose Building Department

We reviewed building records for the Site on-line at the City of San Jose Building Department (CSJBD) website (<https://www.sjpermits.org/permits/permits/>) for building information at the Site. According to CSJBD records, the existing building was constructed in 1985. There were no indications of prior buildings at the Site.

4.3.6 City of San Jose Fire Department

We reviewed City of San Jose Fire Department (CSJFD) inspection records for the Site for information pertaining to hazardous materials use or release information. With the exception of fire sprinkler inspection records, there were no indications of hazardous materials usage or releases for the Site in CSJFD records. Site tenants listed in CSJFD records consisted of JTS corp. in 1995-96 and Optical Networks in 2000.

4.3.7 Previous Environmental Studies

Copies of prior environmental and geotechnical reports were provided by the Client for our review. The following summarizes information presented in reports and materials provided by the Client.

ENGEO Modified Phase I ESA

We reviewed the Phase I ESA titled, *Modified Phase One Environmental Site Assessment, Baypointe Parkway, San Jose, California*, dated January 16, 2006, prepared by ENGEO (ENGEO Modified Phase I ESA), that was conducted for an approximately 11.4-acre property that included the Site. At the time that the ENGEO 2006 Modified Phase I ESA was prepared, the Site was occupied by a two-story commercial office building and associated parking and drive areas identified as 166 Baypointe Parkway. A small portion of the first floor of the building was occupied by a furniture distribution company; the remaining building areas were vacant. The building at the Site was constructed in 1985 and prior land use was for mostly agricultural purposes. The Site was listed in the HAZNET database with a tenant of TS Corporation. At the time of the ENGEO site reconnaissance, a groundwater monitoring well located at the south side of the site building, was observed to be undergoing abandonment under the guidance of a Santa Clara Valley Water District (SCVWD) representative. The report stated that "the SCVWD representative believed that the well was previously installed as part of a real estate transaction and was not associated with groundwater impairments at the property." The ENGEO 2006 Modified Phase I ESA noted that no documents were reviewed regarding the monitoring well. Based on the age of the building, the report indicated that asbestos-containing materials (ACM) and lead-based paint may have been used during its construction. The report did not identify any RECs in connection to the Site.

Soil sampling and analysis were also conducted as an additional scope of work to the ENGEO Modified Phase I ESA. A total of ten soil borings were advanced at the 11.4 acre property, including three borings located at the Site. Soil samples were collected from shallow soil below asphalt and aggregate materials. Soil samples from each boring were collected and composited into five 2-point composite samples. Samples were analyzed for organochlorine pesticides by Environmental Protection Agency (EPA) Test Method 8081A, lead by EPA Test Method 6010B, and mercury by EPA Test Method 7471A. Additional soil samples were collected from five of the borings (two borings located at the Site) and these discrete samples were analyzed for arsenic by EPA Test Method 6061B.

Sample results for the composite soil sample collected at the Site (soil borings S-5A and S-5B) reported lead at a concentration of 8.5 milligrams per kilogram (mg/kg) and mercury at 0.14 mg/kg. Organochlorine pesticides were not detected above their respective laboratory detection limits. Sample results for the composite soil sample with one of the two samples collected at the Site (soil boring S-4A of the S-4A/S-4B composite sample) reported lead at a concentration of 73 mg/kg, mercury at 0.20 mg/kg, and the organochlorine pesticides 4,4'-DDE and 4,4'-DDD at concentrations of 0.22 mg/kg and 0.027 mg/kg, respectively. Composite sample results from soil borings throughout the

11.4-acre property reported lead at 8.5 mg/kg to 73 mg/kg, mercury at 0.07 mg/kg to 0.2 mg/kg, and the organochlorine pesticides 4,4'-DDE at 0.039 mg/kg to 0.22 mg/kg, 4,4'-DDT at 0.025 mg/kg (one sample), and 4,4'-DDD at 0.027 mg/kg (one sample).

Arsenic results for soil samples collected at the Site from soil borings S-4A and S-5A were 5.8 mg/kg and 7.8 mg/kg, respectively. Arsenic levels in soil samples collected from the five soil borings throughout the 11.4-acre property ranged from 5.8 mg/kg to 18 mg/kg. Soil boring locations are shown in an ENGEO Site Plan for the soil sampling and included with the excerpted analytical report as Appendix H.

The ENGEO Modified Phase I ESA concluded that the lead, mercury, and arsenic levels are within the expected range of background metal concentrations, and that the levels of 4,4'-DDD and 4,4'-DDE were below the EPA Preliminary Remediation Goals (PRGs) for residential soil and the San Francisco Bay RWQCB Environmental Screening Levels (ESLs) for shallow residential soil of 2.4 mg/kg and 1.7 mg/kg, respectively. The levels of 4,4'-DDD and 4,4'-DDE were also below the DTSC California Human Health Screening Levels (CHHSLs) of 2.3 mg/kg and 1.6 mg/kg, respectively.

ENGEO Geotechnical Assessment

The ENGEO Geotechnical Assessment (discussed in Section 2.2.3 and 2.2.4) presented the results of a preliminary geotechnical assessment conducted at the Site and adjoining property. Groundwater was encountered at the Site at approximately 6.2 feet on December 23, 2005.

Mindigo Report

We reviewed the report titled, *Preliminary Environmental Clearance Application, Initial Study, Baypointe Towers*, dated December 22, 2005, prepared by Mindigo and Associates (Mindigo Report) for information pertaining to the Site. The Mindigo Report identified the Site as zoned IP (industrial park district). Potable water and sanitary sewer service are provided at the Site and maintained by the San Jose Municipal Water System and City of San Jose, respectively. Natural gas and electrical service are provided at the Site and maintained by Pacific Gas & Electric (PG & E). No environmental concerns were reported for the Site.

ERAS Phase I ESA

We reviewed the Phase I ESA titled, *Phase I Environmental Site Assessment, 166 Baypointe Parkway, San Jose, California*, dated October 28, 2005, prepared by ERAS Environmental, Inc. (ERAS Phase I ESA). At the time that the ERAS 2005 Phase I ESA was prepared, the Site was occupied by a two-story commercial office building and associated parking and drive areas identified as 166 Baypointe Parkway. The first floor of the site building was partially occupied by Daily-Silver Engineering (office space) and by B&T Liquidators for office furniture storage and sales. Prior tenants were reported to include IMP, Inc. (an integrated circuit design and manufacturing business), Optical

Networks, Inc. (offices and electronic assembly), Hyundai Motor America (office space), and Pacific Bell. Prior to construction of the site building in 1985, the Site was used for agricultural and orchard purposes. The Site was not listed in the environmental databases reviewed for the report. An interview conducted with Mr. Bill Cilker, Jr. indicated that a groundwater monitoring well located at the Site had been installed by the owner to "determine the baseline groundwater conditions beneath the property, not for any leak or spill related monitoring purpose." The report did not identify any RECs in connection to the Site.

Engeotech, Inc. Soil and Foundation Investigation

We reviewed the previous report titled, *Soil and Foundation Investigation for North First Street Development (North Pointe, Phase One), North First Street & Tasman Drive, San Jose, California (Partial Report)*, dated January 1984 prepared by Engeotech, Inc. The report was prepared for land at and adjacent to the Site and concluded that the project site is suitable for the proposed one- and two-story concrete tilt-up structures intended for construction at the property.

5.0 SITE RECONNAISSANCE

This section summarizes observations of the Site and surrounding properties made during the site reconnaissance.

5.1 Methodology and Limiting Conditions

The reconnaissance of the Site was performed by conducting a walk-through of the interior of the building and across the parking and drive areas. Conditions encountered at the Site that inhibited our site reconnaissance observations consisted of the following:

- Interior building floor coverings consisted of a mix of carpeting and floor tiles, therefore a thorough visual inspection of the building foundation surfaces was not possible.
- Vegetation had overgrown the concrete pad at the electrical transformer and a visual inspection of potential staining of the concrete surfaces was not possible.
- The Nextel telecommunications equipment shed was locked and could not be inspected.
- Plywood was stacked on the concrete base of the fence-enclosed trash dumpster area located adjacent to the Nextel equipment shed and a thorough visual inspection of the concrete pad was not possible.

The offsite survey was performed by making observations of adjacent properties from the Site and from public streets.

5.2 General Site Setting

The general vicinity of the Site consists of commercial development. Photographs of the Site and adjacent properties are attached.

5.3 Onsite Survey

Mr. Chris Giuntoli performed the site reconnaissance on August 3, 2007. The Site currently supports a two-story commercial concrete tilt-up, slab on-grade office building and associated parking and drive areas (Photo No. 1). Interior building materials included gypsum board wall systems, drop-in acoustic ceiling panels, and a mix of carpet and vinyl floor tile. The first floor of the building was occupied by an office furniture liquidator (Photo Nos. 2 and 3); the second floor of the building was vacant (Photo No. 4). Two telecommunications carriers, Pacific Bell and Nextel, have telecommunications antennas located on the building rooftop. A Nextel telecommunications equipment shed was observed adjacent to the east exterior wall of the building (Photo No. 5).

A former groundwater monitoring well (grout patch) was observed in the parking lot on the south side of the Site [discussed in Section 6.3] (Photo No. 6). Three soil borings (grout patches) were also observed in the west and north parking lots [discussed in Section 4.3.7] (Photo No. 7).

Storm drains were present in the north, south, and west parking lots, and at the loading dock located on the east side of the building. Two landscaping sumps were situated in the raised landscaping adjacent to the southwest and southeast corners on the building (Photo No. 8). One pad-mounted electrical transformer (No. T-627) was observed adjacent to the northeast corner of the building (Photo No. 9). Two trash dumpster enclosures were located on the eastern side of the building. One of the enclosures contained broken furniture components; the second was locked and only visually inspected through the enclosure fence. Areas of patched asphalt were observed along the drive areas of the west and south parking lots (Photo No. 10). Stained soil, distressed vegetation, unusual odors, evidence of dumping, pits and ponds were not observed at the Site. No RECs were observed on the Site.

5.4 Offsite Survey

The Site is bounded by Baypointe Parkway and commercial buildings to the north and west (Photo Nos. 11 and 12), commercial office buildings to the east (Photo Nos. 13 and 14), and E. Tasman Drive, Santa Clara VTA light-rail, and commercial office buildings to the south (Photo Nos. 15 and 16). Properties within the site vicinity are generally developed for commercial use.

6.0 OWNER INTERVIEW

Interviews were conducted with a representative of the current site owner, and with the Santa Clara County Department of Agriculture and Santa Clara Valley Water District to obtain information regarding the history of the Site. The information obtained during the interviews is summarized in the following sections.

6.1 Owner Interview

We conducted an interview with a representative of the current site owner to obtain information regarding the history of the Site. Per the ASTM Standard E 1527-05, a Key Site Manager is required to be interviewed for knowledge of uses and physical characteristics of the Site and is often a property manager or past owner. If the property manager or past owner is not available, an interview with adjacent property owners should be conducted to identify past uses and physical characteristics of the Site.

We conducted an interview with Mr. Bill Cilker, Jr., son of the current property owner, to obtain information regarding the history of the Site. Mr. Cilker reported that his parents have owned the Site since approximately 1998, that the existing site building was constructed in approximately 1985, and that the prior land use was for agricultural purposes. Mr. Cilker explained that the two drainage sumps located in the landscaping along the south side of the building were installed to facilitate drainage from the landscaping, but that pumps had never been installed in the sumps to pump out water. Mr. Cilker also explained that the former groundwater monitoring well at the Site was likely installed in approximately 1990 to test for potential impacts from offsite sources and that no contamination had been reported, though he was unable to provide analytical reports for any prior groundwater sampling at the Site. Mr. Cilker reported that the current furniture liquidator tenant had been at the Site since approximately 2006 and that the telecommunications carriers, Pacific Bell and Nextel, had equipment at the Site since approximately 2000 and 2007, respectively. Prior tenants at the Site during the 1990s to mid-2000s included Hyundai Electronics, JTS Corp., ONI Systems, and IMP. Mr. Cilker explained that operations at the former tenant, ONI Systems, included assembly of electronic components, but that he was not aware of specific activities historically conducted at the Site by the other former tenants. Mr. Cilker was not aware of any current or former USTs, storage or releases of hazardous materials or hazardous waste, other environmental concerns, or environmental liens associated with the Site. He reported that areas of patched asphalt present in the parking and drive areas were the results of routine repairs to the asphalt surfaces. Mr. Cilker was not aware of any prior asbestos surveys or lead paint testing performed for the site building.

6.2 Santa Clara County Department of Agriculture

The Santa Clara County Department of Agriculture reported that pesticide application records are kept for a two-year period. Because of the length of time since the Site was used for agricultural purposes, no records are available for the Site.

6.3 Santa Clara Valley Water District

We contacted the SCVWD for information pertaining to the former groundwater monitoring well at the Site (Figure 2). According to Mr. Jeff Hamm, SCVWD Well Inspector, the monitoring well was installed by Terratech on February 7, 1990 and constructed of two-inch diameter polyvinyl chloride

(PVC) casing, screened from 7 to 22 feet, with a total depth of 22 feet. The monitoring well was abandoned by Environmental Control Associates under SCVWD permit on December 24, 2005. Mr. Hamm reported that there were no sampling or analytical reports for the monitoring well in SCVWD records.

7.0 SUMMARY OF FINDINGS

The Site consists of one approximate 2.86-acre parcel located at 166 Baypointe Parkway in San Jose, California. The Site is further identified by Santa Clara County APN 097-07-072. The Site currently supports an approximate 53,000 square-foot, two-story commercial office building and associated drive and parking areas. The adjacent properties observed from the Site were developed with a mix of commercial businesses and a Santa Clara VTA light-rail corridor.

Onsite soils consist of medium stiff to hard clay overlying medium dense to dense sands with interbedded clay, silt, gravel, and over-consolidated material to approximately 80 feet. A thick medium dense to very dense sand and gravel layer with thin interbedded silt layers was reported from approximately 33 feet to 65 feet before encountering a medium stiff to very stiff clay layer to a depth of approximately 80 feet. Groundwater was measured at the Site in 2006 at approximately 6.2 feet. The groundwater flow direction in the vicinity of the Site was reported to be toward the west.

Review of historical information for the Site and vicinity, including historical aerial photographs dating back to 1939 and topographic maps to 1953 (photorevised 1980), suggest that the Site was used for agricultural purposes from at least 1939 until the early 1980s. The existing site building was constructed in 1985 and the Site has remained essentially unchanged to the present.

Review of readily available agency records found that the Site was listed in the HAZNET database associated with removal of small quantities of materials removed under hazardous waste manifests by a former tenant at the Site, JTS Corporation, in the mid-1990s (Section 4.1.1). Database listings for adjacent properties are not associated with conditions that are expected to represent an environmental concern to the Site. There were no indications of current or former USTs, hazardous materials storage, or release incidents identified for the Site during our review of information obtained from governmental agencies.

A former groundwater monitoring well at the Site, reportedly installed by the Site owner in 1990 to identify possible groundwater impacts from potential offsite sources, was abandoned under SCVWD permit in 2005. The site owner's representative stated that analytical results for prior groundwater samples collected from the monitoring well at the Site have not reported contamination.

Laboratory analytical results for one two-point composite shallow soil sample collected at the Site in 2005 reported lead at a concentration of 8.5 mg/kg and mercury at 0.14 mg/kg, while organochlorine pesticides were not detected above their respective laboratory detection limits. A second two-point composite soil sample, with one of the two samples collected at the Site, contained lead at a concentration of 73 mg/kg, mercury at 0.20 mg/kg, and the organochlorine pesticides 4,4'-DDE and 4,4'-DDD at concentrations of 0.22 mg/kg and 0.027 mg/kg, respectively. Sample results for two discrete shallow soil samples collected at the Site reported arsenic at 5.8 mg/kg and 7.8 mg/kg.

The reported arsenic levels in soil were above both the DTSC CHHSL for residential land use of 0.07 mg/kg and the RWQCB ESL for shallow residential soil of 5.5 mg/kg. The lead concentrations were below both the DTSC CHHSL for residential land use of 150 mg/kg, and the RWQCB ESL for shallow residential soil of 200 mg/kg. Reported mercury levels were below both the DTSC CHHSL for residential land use of 18 mg/kg and the RWQCB ESL for shallow residential soil of 2.5 mg/kg.

Reported levels of organochlorine pesticides 4,4'-DDD and 4,4'-DDE detected in soil samples at the Site were below the RWQCB ESLs for shallow residential soil of 2.4 mg/kg and 1.7 mg/kg, respectively. The levels of 4,4'-DDD and 4,4'-DDE were also below the DTSC CHHSLs of 2.3 mg/kg and 1.6 mg/kg, respectively.

8.0 CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I ESA, in general conformance with the scope and limitations of ASTM E 1527-05, of the approximate 2.86-acre parcel located at 166 Baypointe Parkway in San Jose, California. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

A review of the information sources referenced herein and the results of the August 3, 2007, site reconnaissance indicate that, with the exception of the likely use of pesticides at the Site when it was previously used for agricultural purposes, hazardous substances/petroleum hydrocarbons have not been historically used, generated, and/or stored at the Site.

Although the sample results for arsenic in shallow soil at the Site were above the DTSC CHHSL for residential land use, the reported concentrations are indicative of background arsenic levels in Bay Area soils. The RWQCB July 2003 document, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, reported that typical mean background concentrations for arsenic in Bay Area soils range from approximately 5 mg/kg to 20 mg/kg, with some soils containing over 40 mg/kg arsenic.

The City of San Jose Planning Services Division requires an evaluation of potential environmental contamination at properties proposed for residential development in areas of north San Jose and other select areas of the City. The purpose is primarily to evaluate onsite environmental conditions resulting from prior uses of a property and possible impacts from offsite sources, if any. Based on the results of the shallow soil investigation conducted at the Site and on adjoining properties in 2005, no further soil investigation at the Site is recommended.

Additionally, conditions indicative of environmental impacts to groundwater from onsite activities or offsite sources were not identified. Based on the information acquired during preparation of this Phase I ESA, investigation of shallow groundwater at the Site is not recommended.

Bay Area Air Quality Management District (BAAQMD) regulations require that an asbestos survey be conducted on any building prior to demolition, regardless of the date of construction. We recommend that an asbestos survey be conducted at the site building to comply with the BAAQMD regulations. Additionally, based on the commercial use of the building, lead-containing paint (LCP) may have been applied to the building surfaces. We also recommend that a LCP inspection be conducted at the site building to identify potential deteriorated LCP on building surfaces that may require removal prior to demolition of the building.

If USTs, septic systems, other water wells or dry wells are encountered during future development of the Site, these should be abandoned or removed in accordance with SCVWD and Santa Clara County requirements.

9.0 REFERENCES

- American Society for Testing and Materials (ASTM) Designation E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, 2005.
- California Department of Conservation – Division of Oil, Gas, and Geothermal Resources website, (<http://www.consrv.ca.gov/dog/>), 2006.
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- ERAS Environmental, Inc., *Phase I Environmental Site Assessment, 166 Baypointe Parkway, San Jose, California*, October 28, 2005.
- Mindigo & Associates, *Preliminary Environmental Clearance Application, Initial Study, Baypointe Towers*, December 22, 2005.
- Orduña, Rodrigo, City of San Jose Planning Services Division, personal interview, August 30, 2007.
- San Francisco Bay Regional Water Quality Control Board, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, July 2003.

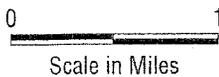
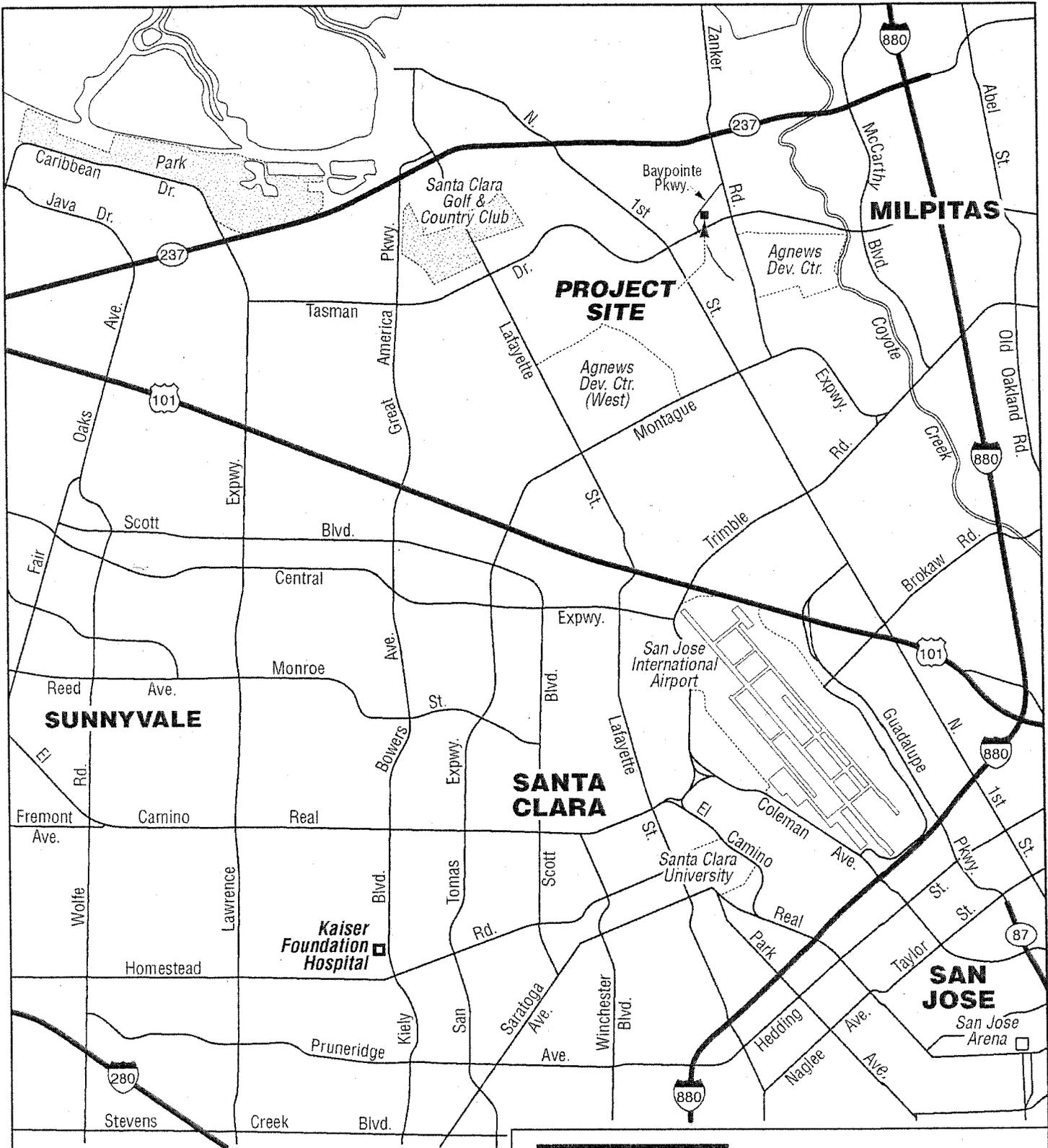
Studemeister and Associates, *Groundwater Monitoring Report for 2005, 199 River Oaks Parkway, San Jose, California*, March 10, 2006.

United States Geological Survey, *Milpitas, CA 7.5-minute Topographic Maps*, 1961 (photorevised 1980).

10.0 QUALIFICATIONS

This Phase I ESA report was prepared by Mr. Chris Giuntoli and reviewed by Ms. Rebecca Silva, REA. Mr. Giuntoli has over 17 years of experience in environmental investigation and remediation projects including 10 years the preparation of Phase I ESAs. Mr. Giuntoli has experience in the performance of Phase I and II ESAs of commercial, industrial, and agricultural properties, and transportation corridors throughout Northern California.

Ms. Silva has over 15 years of experience in the preparation and management of Phase I ESAs. Ms. Silva is a Registered Environmental Assessor with a BS degree in soil and water science. Ms. Silva manages the performance of Phase I ESAs and field sampling programs for industrial sites, commercial/retail areas, residential and agricultural properties, Brownfields developments and transportation corridors.



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166 Baypointe Parkway

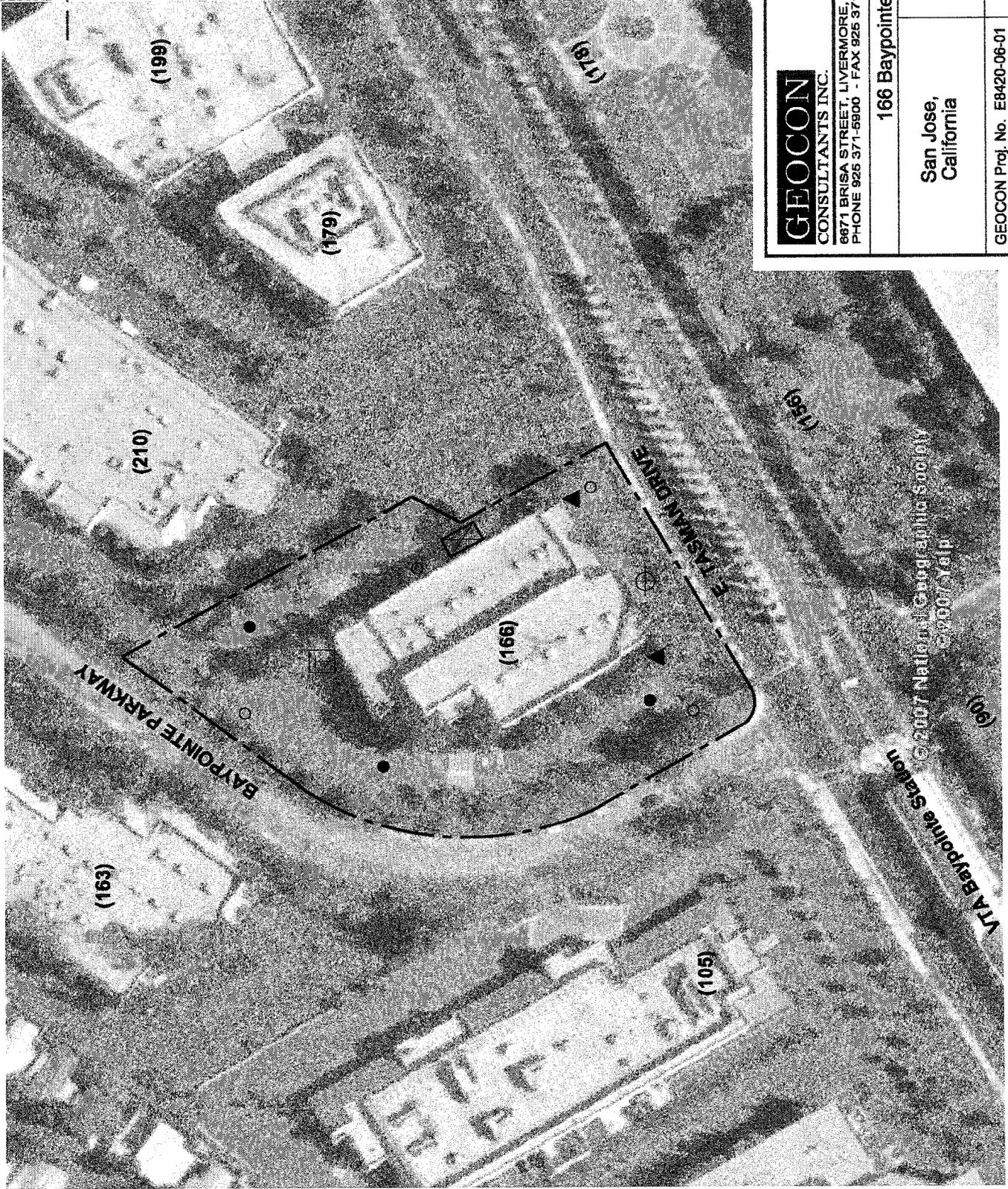
San Jose,
 California

VICINITY MAP

E8420-06-01

October 2007

Figure 1



LEGEND:

- Approximate Site Boundary
- ⊕ Abandoned Groundwater Monitoring Well
- Soil Boring
- Transformer
- Storm Drain
- ▲ Landscape Sump
- ⊠ NEXTEL Equipment Shed



Not To Scale

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166 Baypointe Parkway

San Jose,
 California

SITE PLAN

GEOCON Proj. No. E8420-06-01

October 2007

Figure 2

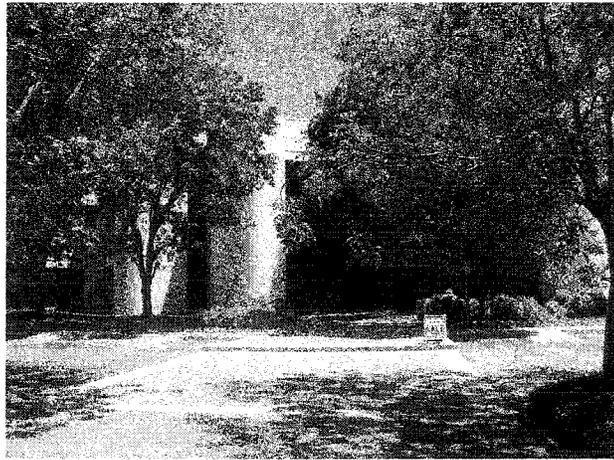


Photo 1 – Front of the 166 Baypointe Parkway building at the Site

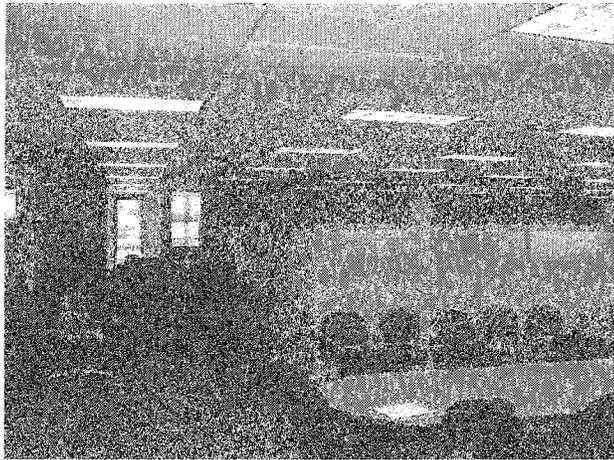


Photo 2 – Interior of the first floor of the site building (furniture liquidator)



Photo 3 – Interior of the first floor of the site building (furniture liquidator)

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PHOTOGRAPHS 1, 2, & 3

166 Baypointe Parkway
San Jose, California

E8420-06-01

October 2007

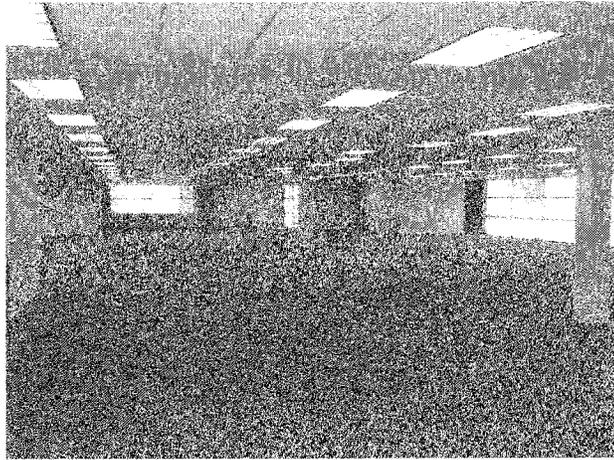


Photo 4 – Interior of the second floor of the site building (vacant)

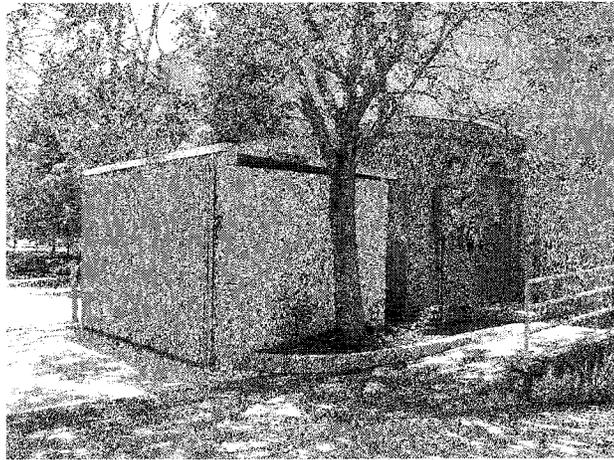


Photo 5 – Nextel equipment shed and enclosed trash dumpster area adjacent to the east side of the site building

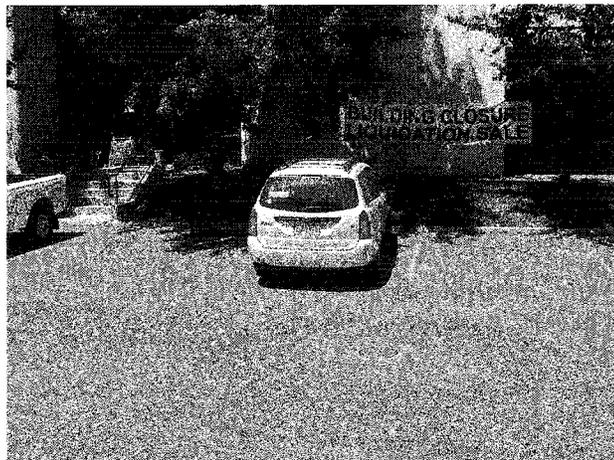


Photo 6 – Abandoned groundwater monitoring well located in the south parking lot at the Site



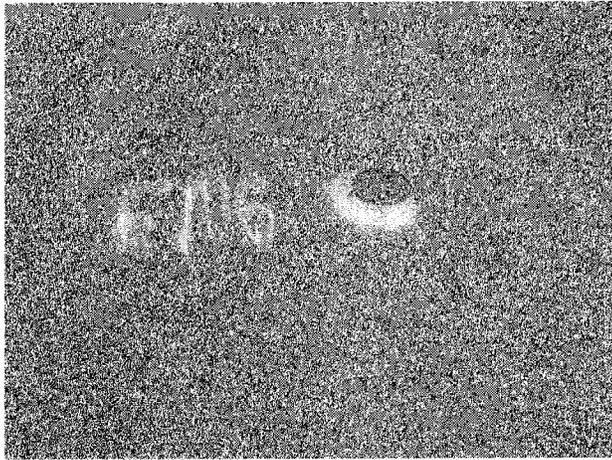


Photo 7 – Soil boring location in the west parking lot at the Site

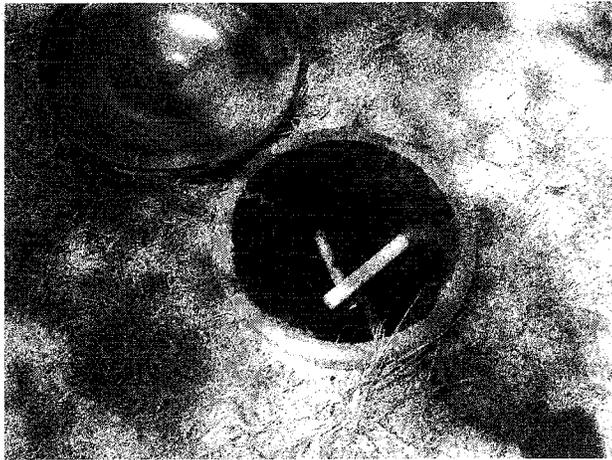


Photo 8 – One of two landscape drainage sumps located in the raised landscaping along the south side of the site building

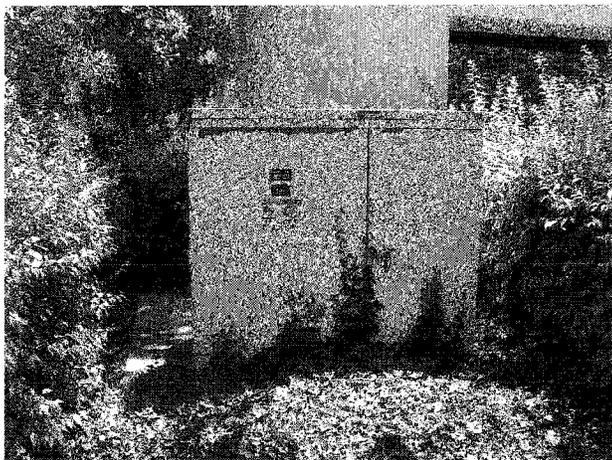


Photo 9 – Pad-mounted electrical transformer (No. T-627) adjacent to the northeast corner of the site building



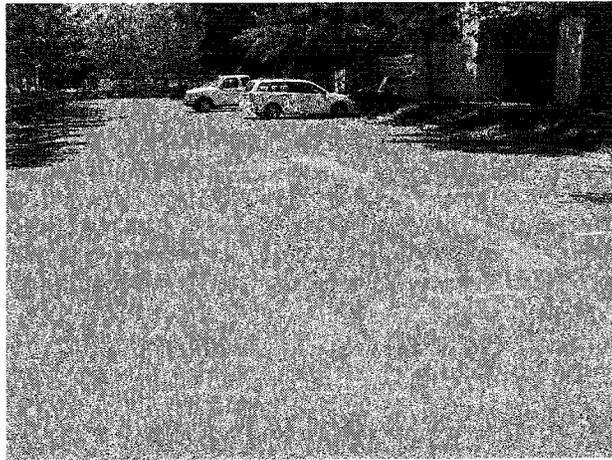


Photo 10 – Asphalt patch located in the south parking lot at the Site

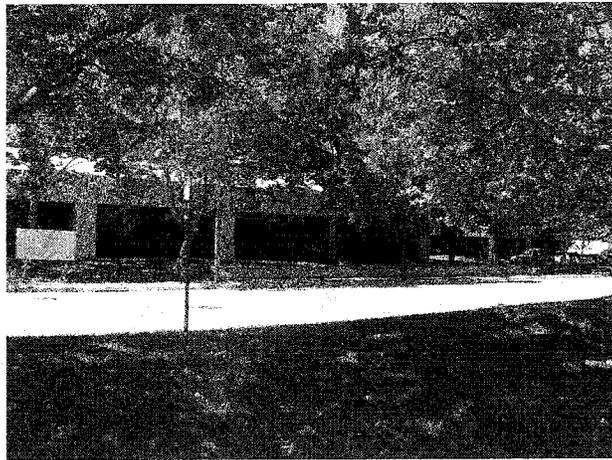


Photo 11 – Baypointe Parkway and the U-Tech commercial building at 163 Baypointe Parkway north of the Site



Photo 12 – Baypointe Parkway and the Sirenza commercial building at 105 E. Tasman Drive west of the Site



PHOTOGRAPHS 10, 11, & 12		
166 Baypointe Parkway San Jose, California		
E8420-06-01		October 2007

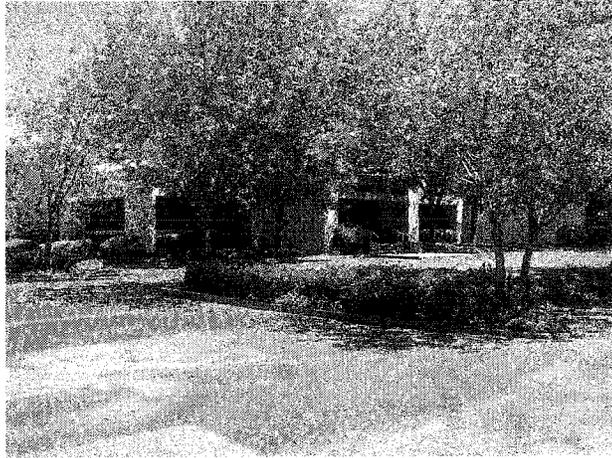


Photo 13 – ITI commercial building at 210 Baypointe Parkway east of the Site



Photo 14 – Vacant commercial building at 179 E. Tasman Drive east of the Site

GEOCON
 CONSULTANTS, INC.
 6671 Brisa Street, Livermore, California 94550
 PHONE (925) 371-5900 – FAX (925) 371-5915



PHOTOGRAPHS 13 & 14		
166 Baypointe Parkway San Jose, California		
E8420-06-01		October 2007



Photo 15 – E. Tasman Drive, Santa Clara VTA light-rail Baypointe Station, and Palmer College of Chiropractic West at 90 E. Tasman Drive southwest of the Site

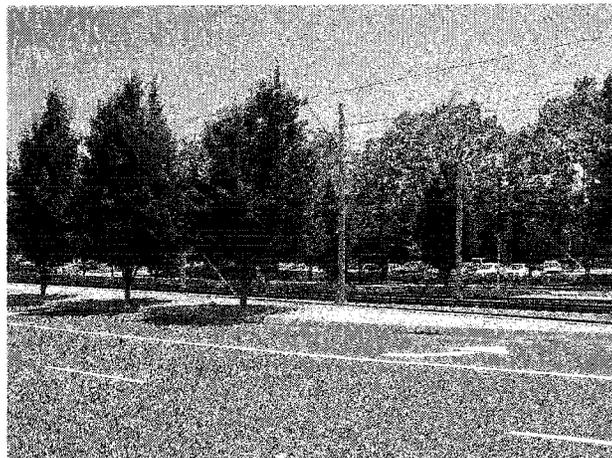


Photo 16 – E. Tasman Drive, Santa Clara VTA light-rail, and Interwoven commercial building at 156 E. Tasman Drive south of the Site

GEOCON

CONSULTANTS, INC.
6671 Brisa Street, Livermore, California 94550
PHONE (925) 371-5900 – FAX (925) 371-5915



PHOTOGRAPHS 15 & 16

166 Baypointe Parkway
San Jose, California

E8420-06-01

October 2007

APPENDIX

A



Proposal No. LE-07-033
July 30, 2007

VIA ELECTRONIC MAIL

Mr. Peter Solar
Trammell Crow Residential
1810 Gateway Drive, Suite 240
San Mateo, California 94404

Subject: REVISED PROPOSAL FOR AAI PHASE I ENVIRONMENTAL SITE
ASSESSMENT
166 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

Dear Mr. Solar:

In accordance with your request, we are pleased to present this Proposal to perform a Phase I Environmental Site Assessment (ESA) of the property located at 166 Baypointe Parkway (the Site) in San Jose, Santa Clara County, California. The Site consists of Santa Clara County Assessor Parcel Number 097-07-72 totaling approximately 2.9 acres located at the northeast corner of the intersection of Baypointe Parkway and Tasman Drive, and currently supports a commercial office building.

We understand that the Client, TCR Northern California I, requested the performance of an ESA to provide information regarding the potential for existing hazardous substances/petroleum hydrocarbon impacts at the Site prior to planned residential development.

We reviewed the following reports for land associated with the Site:

- *Modified Phase One Environmental Site Assessment, Baypointe Parkway, San Jose, California*, dated January 16, 2006, prepared by ENGEO Incorporated (ENGEO Modified Phase I ESA); and
- *Phase I Environmental Site Assessment, 166 Baypointe Parkway, San Jose, California*, dated October 28, 2005, prepared by ERAS Environmental, Inc.

Based on our review of the previously prepared reports for the Site, we understand the following:

- The Site consists of a single parcel which is currently occupied by a commercial office building constructed in approximately 1985 and, prior to that time, the Site was used for agricultural purposes (e.g., mix of row crops and orchards) since at least 1939.
- Soil sampling conducted at and in the vicinity of the Site during the ENGEO Modified Phase I ESA identified concentrations of arsenic from 5.8 parts per million (ppm) to 18 ppm, lead from 8.5 ppm to 73 ppm, and mercury from 0.07 to 0.2 ppm. Also, organochlorine pesticides DDE and DDT were detected in soil at concentrations ranging from 0.039 ppm to 0.22 ppm and 0.025 ppm to 0.027 ppm, respectively.

The requested ESA would be performed in general accordance with the American Society for Testing and Materials (ASTM) Designation E 1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The Phase I ESA would also be conducted in general accordance with the requirements of 40 *Code of Federal Regulations (CFR) Part 312* titled *Standards and Practices for All Appropriate Inquiries*, as required under Sections 101(35)(B)(ii) and (iii) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

The purpose of conducting an All Appropriate Inquiries (AAI) investigation into the previous ownership and uses of a property is to meet the provisions necessary for the landowner, contiguous property owner, and/or bona fide prospective purchaser to qualify for certain landowner liability protections under CERCLA.

In order to perform the requested ESA in general accordance with ASTM and AAI guidelines, we request that the Client provide the following information:

- Assessor's parcel map for the Site.
- Site Plan clearly depicting the site boundaries and building locations.
- Permission to enter the Site.
- Names and telephone numbers of contacts for present/past owner/occupant interviews.
- Planned use of the Site.
- Specialized knowledge regarding the Site.
- Commonly known or reasonably ascertainable information regarding the Site.
- Available site-related documents.
- An historical chain-of-title report from a title company.

The Client (report user) will be required to provide an evaluation of the relationship of the purchase price of the Site to the fair market value as required under AAI. Where not provided, the report will identify the missing information as a "data gap." We will render an opinion regarding the significance of any identified data gaps with respect to the objectives of the ESA.

PURPOSE AND SCOPE OF SERVICES

Based on the above information, we propose to perform research to estimate the existing potential for impacts to the Site (i.e., levels of hazardous substances/petroleum hydrocarbons warranting regulatory cleanup action) from the presence of hazardous substances/petroleum hydrocarbons on, or within, the vicinity of the Site. For the purposes of this ESA, the "vicinity" of the Site is defined as properties located within ¼ mile of the Site.

The scope of services for the ESA are presented as follows.

- Perform a reconnaissance of the Site to assess for the presence, or make visual observations of indicators of the potential existing presence, of hazardous materials, hazardous wastes, or soil and/or groundwater impacts on the Site. These indicators include, but are not limited to, 55-gallon drums, underground and aboveground storage tanks, chemical containers, waste storage and disposal areas, industrial facilities, discolored surficial soils, electrical transformers that may contain polychlorinated biphenyls (PCBs), and areas conspicuously absent of vegetation. If access is unavailable to any portions of the Site, our ability to complete the assessment described herein may be hindered. Provisions for a survey of wetlands delineation, asbestos, lead-based paint, lead in drinking water, radon and methane gas are not provided in this scope of services.

- Perform a visual survey of the adjacent properties from the Site and from public thoroughfares to observe general types of land use surrounding the Site.
- Review the *Standard Environmental Records Sources: Federal and State* referenced in ASTM Designation E 1527-05 and 40 CFR Part 312 to obtain information regarding the potential presence of hazardous substances/petroleum hydrocarbons on the Site or on properties located within the approximate minimum search distance specified for each source. The records searched will include registries or publicly available lists of recorded engineering and institutional controls, and recorded land use restrictions that may impact the Site.
- Review reasonably ascertainable regulatory agency files for the Site and/or properties in the vicinity of the Site whose environmental conditions might potentially impact the Site. The sources for these files will include the Santa Clara County Environmental Health Department and the Regional Water Quality Control Board.
- Contact local public agencies by telephone or in writing to obtain readily ascertainable information regarding underground storage tank permits, agriculture-related permits and violations, air emission permits and violations and electrical transformers. The information would be obtained for the Site and adjacent properties. The agencies contacted may include, but will not be limited to, the building department, air pollution control agency, agriculture department, and gas and/or electric utility companies.
- Review and interpret reasonably ascertainable aerial photographs to obtain information concerning the history of the Site and adjacent properties.
- Review EDR Sanborn, Inc. Fire Insurance Maps for the Site (if available). The EDR Sanborn Fire Insurance Maps would be reviewed to obtain information concerning the historical uses of the Site and the potential presence of underground storage tanks on the Site.
- Review pertinent and reasonably ascertainable information sources to evaluate physiographic, geologic, and hydrogeologic conditions in the vicinity of the Site.
- Review documents provided by Client at Client's discretion. Potentially useful documents may include geotechnical, geologic, and environmental reports, site plans, plot plans, and correspondence with regulatory agencies.
- Review U.S. Geological Survey topographic maps to obtain information relative to the topography of the Site and previous development and uses of the Site and properties located in the vicinity of the Site.
- Review the "2001 Munger Map Book," to obtain information regarding the locations of potential oil and gas wells on the Site and site vicinity.
- If requested, review recorded land title records for the Site in accordance with the requirements identified in 40 CFR Part 312. The purpose of obtaining a chain-of-title report is to assess whether any requirements regarding engineering and institutional controls have been recorded for the Site, and whether any land use restrictions and/or environmental cleanup liens are associated with the Site.
- Conduct interviews by telephone or in writing with present and past tenants/owners of the Site to evaluate if present or past occupants have used, generated, stored, or disposed of hazardous materials/wastes onsite.

- Prepare a report summarizing the findings of the Phase I ESA. The report will qualitatively describe the potential for environmental impairment of the Site. If necessary, the report will also provide recommendations for additional environmental services. The report will identify any "data gaps" (i.e., lack of or inability to obtain information required by ASTM Standard Practice E 1527-05 and 40 CFR 312). If the data gaps influence our ability to render an opinion regarding the environmental condition of the Site, the report will comment on the significance of the data gaps. Please note that 40 CFR 312 requires, as part of the all appropriate inquiry process, that a determination be made regarding the relationship between the purchase price of the property and its fair market value, and whether any differential between the purchase price and fair market value of the property is due to potential environmental contamination associated with the property; however, these determinations are outside the scope of work for this Phase I ESA.

PROPOSED FEE

We propose to perform the Phase I ESA as outlined herein for lump sum fee of \$4,000. The fee is valid for a period of 60 days from the date of this Proposal and includes the submittal of two copies of the report. We anticipate that the final report would be completed and submitted within approximately four weeks of authorization to proceed.

The above fee is based upon the anticipation that it will be necessary to perform seven or less file reviews for the ESA. Should the review of a greater number of files be deemed necessary during the research phase of the ESA, the Client would be contacted and apprised of the additional fees.

Consultation services rendered after the issuance of the report and/or charges required for reviewing and copying regulatory records would be billed on a "time and materials" basis in accordance with the enclosed *2006 Schedule of Fees for Environmental Services*, which is incorporated into and made a part of this Proposal, and would be additive to the proposed fee.

EXECUTION OF CONTRACT

Please carefully review the contents of this Proposal. We will commence with the scope of services outlined herein upon receipt of your written authorization to proceed. Our services will be provided in accordance with the *Master Environmental Consulting Agreement* between TCR Northern California I and Geocon Consultants, Inc. and the attached *2006 Schedule of Fees for Environmental Services*.

Please contact us if you have any questions concerning the contents of this Proposal or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.



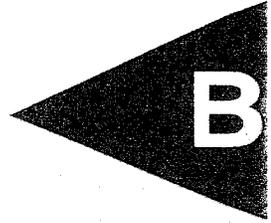
Chris Giuntoli, REA
Project Scientist

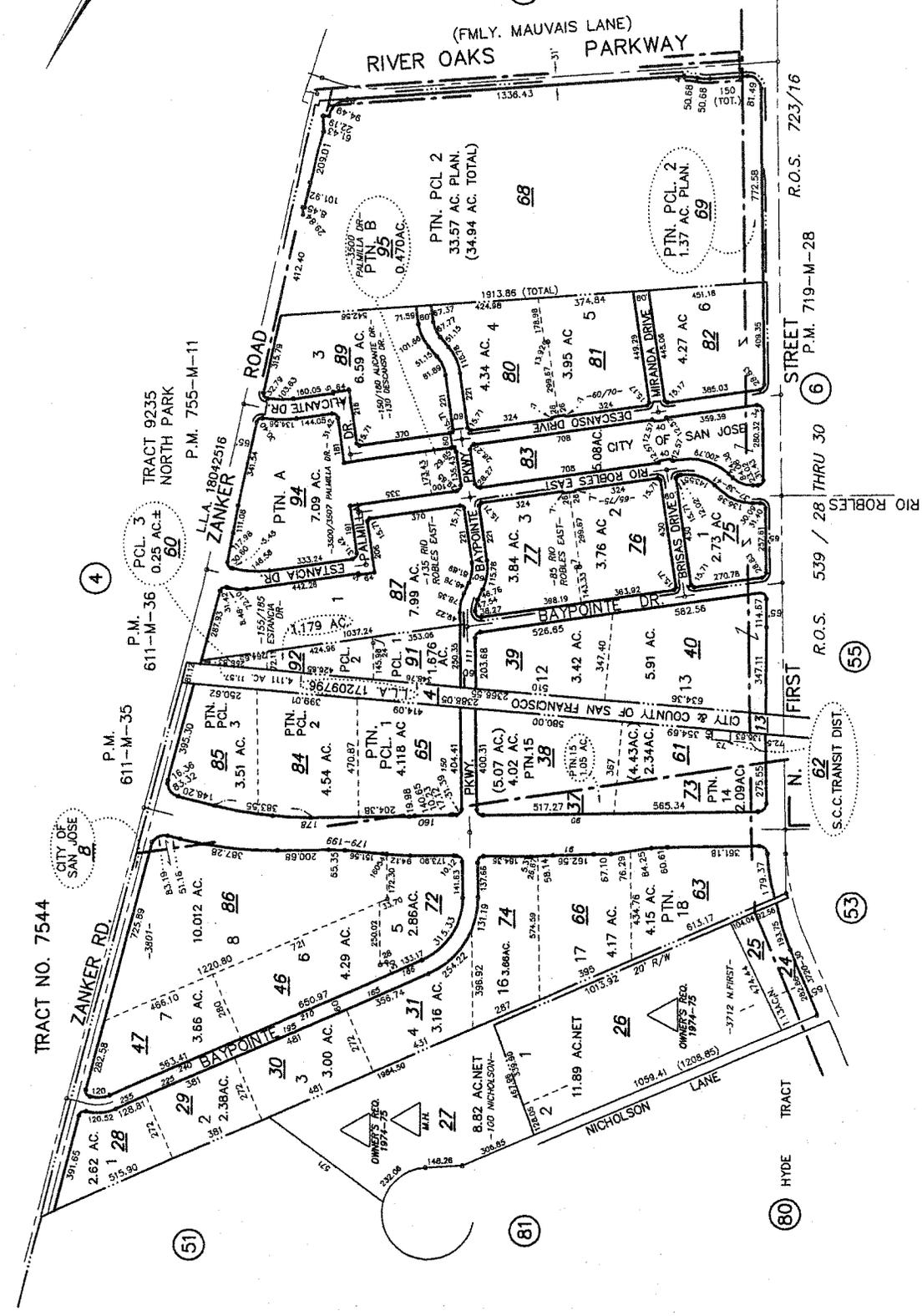
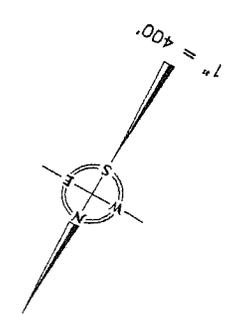
CG:rjk

(1) Addressee

Enclosure: *2006 Schedule of Fees for Environmental Services*

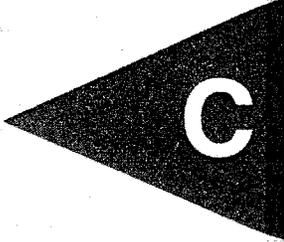
APPENDIX



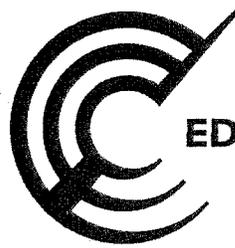


LAWRENCE E. STONE — ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2007-2008

APPENDIX



C



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**166 Baypointe Parkway
166 Baypointe Parkway
San Jose, CA 95134**

Inquiry Number: 01997080.1r

August 03, 2007

The Standard in Environmental Risk Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

166 BAYPOINTE PARKWAY
SAN JOSE, CA 95134

COORDINATES

Latitude (North): 37.411900 - 37° 24' 42.8"
Longitude (West): 121.941000 - 121° 56' 27.6"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 593718.7
UTM Y (Meters): 4140889.2
Elevation: 17 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37121-D8 MILPITAS, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
JTS CORPORATION 166 BAYPOINTE PKWY SAN JOSE, CA 95134	HAZNET	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
LIENS 2	CERCLA Lien Information
RADINFO	Radiation Information Database
US CDL	Clandestine Drug Labs
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
ICIS	Integrated Compliance Information System
LUCIS	Land Use Control Information System
DOT OPS	Incident and Accident Data
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
LIENS	Environmental Liens Listing
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List

EXECUTIVE SUMMARY

CDL..... Clandestine Drug Labs
EMI..... Emissions Inventory Data
HAULERS..... Registered Waste Tire Haulers Listing

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations... EDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 03/21/2007 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
OAKMEAD INVESTORS INC	3910 NORTH FIRST ST	1/4 - 1/2 SW	10	16

EXECUTIVE SUMMARY

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/13/2006 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SMITHKLINE PARKWAY	225 BAYPOINTE PARKWAY	1/8 - 1/4 NNE	A3	6
SMITHKLINE PARKWAY	225 BAYPOINTE PARKWAY	1/8 - 1/4 NNE	A4	7
FUJITSU LABORATORIES OF AMERIC	3811 ZANKER ROAD	1/8 - 1/4 ENE	B5	7

STATE AND LOCAL RECORDS

HIST CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MANSION GROVE	4101 LICK MILL BOULEVAR	1/2 - 1 S	D16	24

BEP: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 2 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NORTH FIRST STREET PLUME - SAN	3901 NORTH FIRST STREET	1/2 - 1 W	C14	22
MANSION GROVE	4101 LICK MILL BLVD	1/2 - 1 S	D15	23

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1

EXECUTIVE SUMMARY

Cortese site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAMPLIGHTER PUMP STATION	3171 LAMPLIGHTER WY	1/4 - 1/2 WSW	11	17

HIST LUST SANTA CLARA: A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

A review of the HIST LUST SANTA CLARA list, as provided by EDR, and dated 03/29/2005 has revealed that there is 1 HIST LUST SANTA CLARA site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ROSE ORCHARD I	90 ROSE ORCHARD WY	1/4 - 1/2 WNW	12	17

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 07/10/2007 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AGNEWS DEVELOPMENTAL CENTER	3500 ZANKER RD.	1/8 - 1/4 ENE	B6	13

SJ HAZMAT: San Jose Hazmat Facilities.

A review of the SAN JOSE HAZMAT list, as provided by EDR, and dated 06/11/2007 has revealed that there are 4 SAN JOSE HAZMAT sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NEWWORK GENERAL CORPORATIO	178 E TASMAN DR	1/8 - 1/4 E	2	6
SANTA CLARA VALLEY WATER DISTR	3500 ZANKER RD	1/8 - 1/4 ENE	B7	14
OLS ENERGY AGNEWS	3530 ZANKER RD	1/8 - 1/4 ENE	8	14
CISCO SYSTEMS INC	3750 ZANKER RD	1/8 - 1/4 ESE	9	16

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, and dated 05/29/2007 has revealed that there are 2 RESPONSE sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>Not reported</i>	3901 NORTH 1ST STREET	1/2 - 1 W	C13	17
MANSION GROVE	4101 LICK MILL BOULEVAR	1/2 - 1 S	D16	24

EXECUTIVE SUMMARY

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/29/2007 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
IT, SAN JOSE Facility Status: Refer: RWQCB	3010 ZANKER ROAD	1/2 - 1 SSE	19	39
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported Facility Status: Backlog	3901 NORTH 1ST STREET	1/2 - 1 W	C13	17
MANSION GROVE Facility Status: Certified / Operation & Maintenance	4101 LICK MILL BOULEVAR	1/2 - 1 S	D16	24
71 VISTA MONTANA Facility Status: Active	71 VISTA MONTANA	1/2 - 1 W	17	33
VISTA MONTANA PARK Facility Status: Active	4145 N. 1ST STREET	1/2 - 1 WNW	18	36

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
S J CONCRETE PIPE CO	SWEEPS UST
ROBISON PREZIOSO INC	RCRA-SQG
AUTOMATION PARKWAY	ERNS
SAN FILIPE ROAD 1 MILE SOUTH OF VILLAGE PARKWAY	ERNS
MOITZO PROPERTY	SLIC
INTEST	SAN JOSE HAZMAT
OWENS-CORNING FIBERGLAS CORP LDFL-ALVISO	ENVIROSTOR

OVERVIEW MAP - 01997080.1r

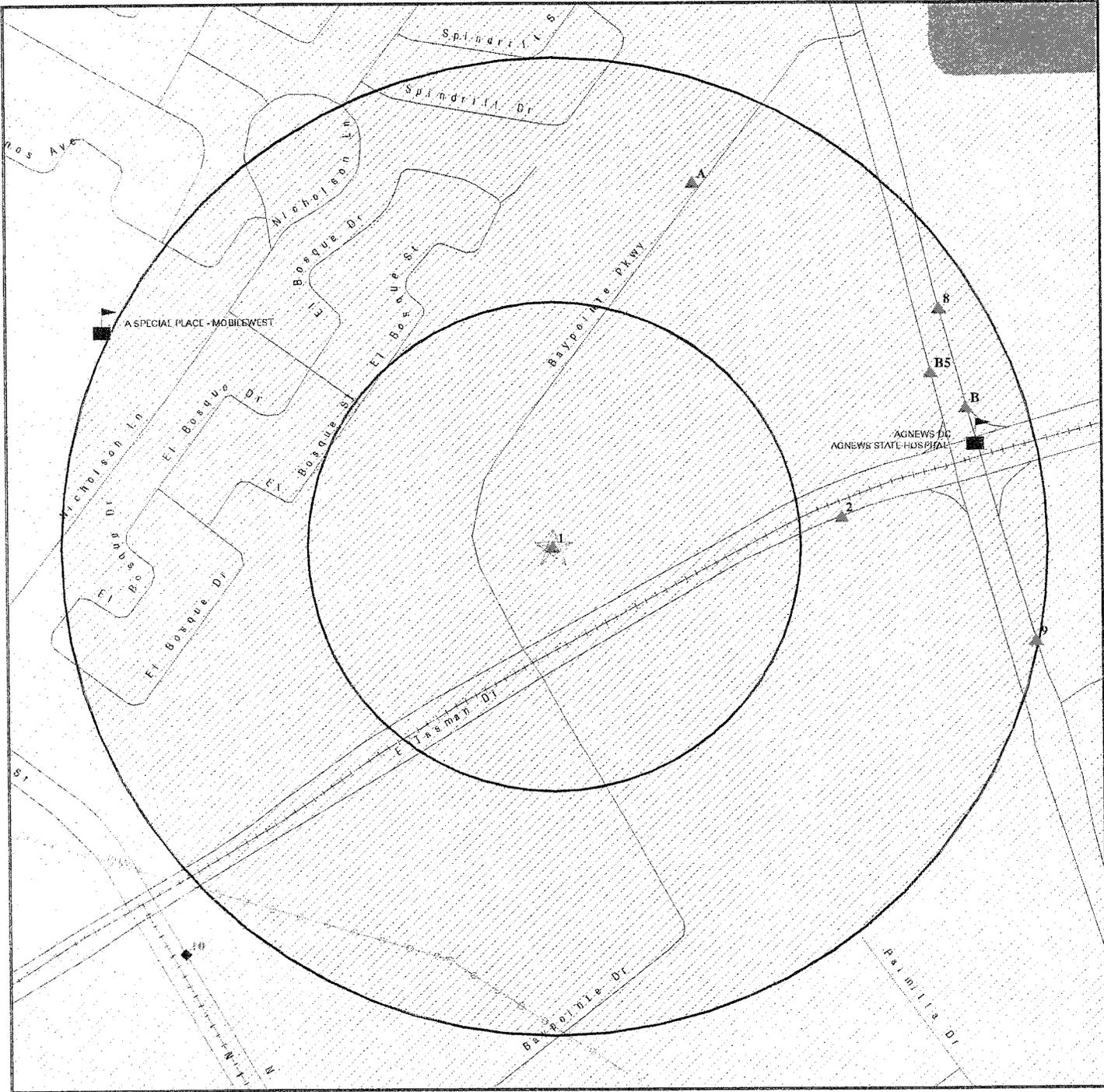


- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: 166 Baypointe Parkway ADDRESS: 166 Baypointe Parkway San Jose CA 95134 LAT/LONG: 37.4119 / 121.9410</p>	<p>CLIENT: GeoCon Environmental Cons. CONTACT: Chris Giuntoli INQUIRY #: 01997080.1r DATE: August 03, 2007 12:08 pm</p>
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DETAIL MAP - 01997080.1r



- Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- ▨ Indian Reservations BIA
- Power transmission lines
- ... Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory
- ▨ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: 166 Baypointe Parkway ADDRESS: 166 Baypointe Parkway San Jose CA 95134 LAT/LONG: 37.41119 / 121.9410</p>	<p>CLIENT: GeoCon Environmental Cons. CONTACT: Chris Giuntoli INQUIRY #: 01997080.1r DATE: August 03, 2007 12:08 pm</p>
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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	1	NR	NR	1
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	3	NR	NR	NR	3
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	1	NR	1
CA Bond Exp. Plan		1.000	0	0	0	2	NR	2
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
HIST LUST SANTA CLARA		0.500	0	0	1	NR	NR	1
UST		0.250	0	1	NR	NR	NR	1
HIST UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
SAN JOSE HAZMAT		0.250	0	4	NR	NR	NR	4
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	2	NR	2
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	5	NR	5
HAULERS		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)
 EDR ID Number
 EPA ID Number

1 **JTS CORPORATION**
Target **166 BAYPOINTE PKWY**
Property **SAN JOSE, CA 95134**

HAZNET **S103972815**
 N/A

Actual:
17 ft.

HAZNET:
 Gepaid: CAL000129167
 Contact: JTS CORPORATION
 Telephone: 4084681800
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 166 BAYPOINTE PKWY
 Mailing City,St,Zip: SAN JOSE, CA 951341621
 Gen County: Santa Clara
 TSD EPA ID: WAD991281767
 TSD County: 99
 Waste Category: Laboratory waste chemicals
 Disposal Method: Treatment, Incineration
 Tons: .0035
 Facility County: Santa Clara

Gepaid: CAL000129167
 Contact: JTS CORPORATION
 Telephone: 4084681800
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 166 BAYPOINTE PKWY
 Mailing City,St,Zip: SAN JOSE, CA 951341621
 Gen County: Santa Clara
 TSD EPA ID: CAD044429835
 TSD County: Los Angeles
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: .0625
 Facility County: Santa Clara

2 **NEWWORK GENERAL CORPORATIO**
East **178 E TASMAN DR**
1/8-1/4 **, CA 95134**
776 ft.

SAN JOSE HAZMAT **S107030422**
 N/A

Relative:
Higher

SAN JOSE HAZMAT:
 Region: SAN JOSE
 File Num: 410566
 Class: Misc. Complex firms and labs

Actual:
18 ft.

A3 **SMITHKLINE PARKWAY**
NNE **225 BAYPOINTE PARKWAY**
1/8-1/4 **SAN JOSE, CA 95134**
1053 ft.

RCRA-SQG **1000409619**
FINDS **CAD981388689**

Relative:
Equal

Site 1 of 2 in cluster A

Actual:
17 ft.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

EDR ID Number
 EPA ID Number

SMITHKLINE PARKWAY (Continued)

1000409619

RCRAInfo:
 Owner: FIRST INTERSTATE MORG
 (415) 555-1212
 EPA ID: CAD981388689
 Contact: ENVIRONMENTAL MANAGER
 (408) 435-2660
 Classification: Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A4
 NNE
 1/8-1/4
 1053 ft.

**SMITHKLINE PARKWAY
 225 BAYPOINTE PARKWAY
 SAN JOSE, CA 95134**

**RCRA-SQG 1000409620
 CAD982413205**

Site 2 of 2 in cluster A

Relative:
 Equal

RCRAInfo:
 Owner: FIRST INTERSTATE MORG
 (415) 555-1212
 EPA ID: CAD982413205
 Contact: ENVIRONMENTAL MANAGER
 (408) 435-2660

Actual:
 17 ft.

Classification: Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found

B5
 ENE
 1/8-1/4
 1114 ft.

**FUJITSU LABORATORIES OF AMERICA
 3811 ZANKER ROAD
 SAN JOSE, CA 95134**

**RCRA-SQG 1000686454
 FINDS CAD983637638
 HAZNET
 EMI
 CA WDS**

Site 1 of 3 in cluster B

Relative:
 Higher

Actual:
 18 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

RCRAInfo:

Owner: AETNA PROPERTY SERVICES
(408) 262-4642

EPA ID: CAD983637638

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 06/06/1994
Actual Date Achieved Compliance: 06/13/1994

There are 1 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19940613

Date of
Compliance
19940613

FINDS:

Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD983637638
Contact: AETNA PROPERTY SERVICES
Telephone: 4082624642
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 3811 ZANKER RD
Mailing City,St,Zip: SAN JOSE, CA 951341402

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

Gen County: Santa Clara
TSD EPA ID: CAD069138899
TSD County: Santa Clara
Waste Category: Liquids with cyanides > 1000 mg/l
Disposal Method: Recycler
Tons: .2543
Facility County: Santa Clara

Gepaid: CAD983637638
Contact: AETNA PROPERTY SERVICES
Telephone: 4082624642
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 3811 ZANKER RD
Mailing City,St,Zip: SAN JOSE, CA 951341402
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Waste oil and mixed oil
Disposal Method: Disposal, Other
Tons: .0208
Facility County: Santa Clara

Gepaid: CAD983637638
Contact: AETNA PROPERTY SERVICES
Telephone: 4082624642
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 3811 ZANKER RD
Mailing City,St,Zip: SAN JOSE, CA 951341402
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Liquids with pH <UN-> 2 with metals
Disposal Method: Disposal, Other
Tons: 1.8556
Facility County: Santa Clara

Gepaid: CAD983637638
Contact: AETNA PROPERTY SERVICES
Telephone: 4082624642
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 3811 ZANKER RD
Mailing City,St,Zip: SAN JOSE, CA 951341402
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified alkaline solution
Disposal Method: Disposal, Other
Tons: .3752
Facility County: Santa Clara

Gepaid: CAD983637638
Contact: AETNA PROPERTY SERVICES
Telephone: 4082624642
Facility Addr2: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

Mailing Name: Not reported
Mailing Address: 3811 ZANKER RD
Mailing City, St, Zip: SAN JOSE, CA 951341402
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified aqueous solution
Disposal Method: Disposal, Other
Tons: .0834
Facility County: Santa Clara

[Click this hyperlink](#) while viewing on your computer to access
135 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:

Year: 1993
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 14
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers & Smlr Tons/Yr: 1

Year: 1996
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 14
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers & Smllr Tons/Yr: 1

Year: 1997
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1998
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2001
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 4931
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2003
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 6039
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.041
Reactive Organic Gases Tons/Yr: 0.0273105
Carbon Monoxide Emissions Tons/Yr: 0.029
NOX - Oxides of Nitrogen Tons/Yr: 0.164
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0.017
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.016876

CA WDS:

Facility ID: San Francisco Bay 431009149
Facility Type: Industrial - Facility that treats and/or disposes of liquid or

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

FUJITSU LABORATORIES OF AMERICA (Continued)

1000686454

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 2

Facility Telephone: 4089437725

Facility Contact: SUZANNE EATON

Agency Name: FUJITSU LABS OF AMERICA INC

Agency Address: 3811 Zanker Rd

Agency City,St,Zip: San Jose 951341402

Agency Contact: SUZANNE EATON

Agency Telephone: 4089437725

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

B6 AGNEWS DEVELOPMENTAL CENTER
ENE 3500 ZANKER RD.
1/8-1/4 SAN JOSE, CA 95134
1168 ft.

UST U003779692
 N/A

Site 2 of 3 in cluster B

Relative: UST:
Higher Region: STATE
Actual: Local Agency: 43000
19 ft. Facility ID: 208993

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)
 EDR ID Number
 EPA ID Number

B7 **SANTA CLARA VALLEY WATER DISTRICT** **HAZNET** **S103986687**
ENE **3500 ZANKER RD** **SAN JOSE HAZMAT** **N/A**
1/8-1/4 **SAN JOSE, CA 95054**
1168 ft.

Site 3 of 3 in cluster B

Relative: **HAZNET:**
Higher **Gepaid:** CAC001023800
 Contact: SANTA CLARA VALLEY WATER DIST
Actual: **Telephone:** 4082652600
19 ft. **Facility Addr2:** Not reported
 Mailing Name: Not reported
 Mailing Address: 5750 ALMADEN EXPRESS WAY
 Mailing City,St,Zip: SAN JOSE, CA 951180000
 Gen County: Santa Clara
 TSD EPA ID: CAL000027741
 TSD County: 5
 Waste Category: Asbestos-containing waste
 Disposal Method: Disposal, Land Fill
 Tons: 29.4980
 Facility County: Santa Clara

SAN JOSE HAZMAT:
Region: SAN JOSE
File Num: 407925
Class: Misc. Complex firms and labs

8 **OLS ENERGY AGNEWS** **HAZNET** **S104576892**
ENE **3530 ZANKER RD** **SAN JOSE HAZMAT** **N/A**
1/8-1/4 **SAN JOSE, CA 95134**
1217 ft.

Relative: **HAZNET:**
Higher **Gepaid:** CAL000058954
 Contact: CHARLIE HOOCK
Actual: **Telephone:** 4084562690
18 ft. **Facility Addr2:** Not reported
 Mailing Name: Not reported
 Mailing Address: 3800 CISCO WAY
 Mailing City,St,Zip: SAN JOSE, CA 951342207
 Gen County: Santa Clara
 TSD EPA ID: CAL000161743
 TSD County: Santa Clara
 Waste Category: Other organic solids
 Disposal Method: Not reported
 Tons: 0.3
 Facility County: Santa Clara

Gepaid: CAL000058954
Contact: CHARLIE HOOCK
Telephone: 4084562690
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 3800 CISCO WAY
Mailing City,St,Zip: SAN JOSE, CA 951342207
Gen County: Santa Clara
TSD EPA ID: CAL000161743
TSD County: Santa Clara
Waste Category: Other organic solids

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

OLS ENERGY AGNEWS (Continued)

S104576892

Disposal Method: Transfer Station
 Tons: 0.15
 Facility County: Santa Clara

Gepaid: CAL000058954
 Contact: CHARLIE HOOCK
 Telephone: 4084562690
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 3800 CISCO WAY
 Mailing City,St,Zip: SAN JOSE, CA 951342207
 Gen County: Santa Clara
 TSD EPA ID: CAL000161743
 TSD County: Santa Clara
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Recycler
 Tons: 0.18
 Facility County: Santa Clara

Gepaid: CAL000058954
 Contact: CHARLIE HOOCK
 Telephone: 4084562690
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 3800 CISCO WAY
 Mailing City,St,Zip: SAN JOSE, CA 951342207
 Gen County: Santa Clara
 TSD EPA ID: CAL000161743
 TSD County: Santa Clara
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: 0.93
 Facility County: Santa Clara

Gepaid: CAL000058954
 Contact: OLS ENERGY-AGNEWS
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 3800 CISCO WAY
 Mailing City,St,Zip: SAN JOSE, CA 951342207
 Gen County: Santa Clara
 TSD EPA ID: CAD059494310
 TSD County: Santa Clara
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: .2500
 Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access
 9 additional CA_HAZNET: record(s) in the EDR Site Report.

SAN JOSE HAZMAT:

Region: SAN JOSE
 File Num: 407926
 Class: Misc. Complex firms and labs

MAP FINDINGS

Map ID			
Direction			
Distance			
Distance (ft.)			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number

11 WSW 1/4-1/2 1588 ft.	LAMPLIGHTER PUMP STATION 3171 LAMPLIGHTER WY SAN JOSE, CA 95113	Cortese SAN JOSE HAZMAT	S102415917 N/A
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Relative: Lower
 Cortese:
 Region: CORTESE
 Facility Addr2: 3171 LAMPLIGHTER WY

Actual: 14 ft.
 SAN JOSE HAZMAT:
 Region: SAN JOSE
 File Num: 404593
 Class: City Facility

12 WNW 1/4-1/2 2106 ft.	ROSE ORCHARD I 90 ROSE ORCHARD WY SAN JOSE, CA	HIST LUST SANTA CLARA	S104541825 N/A
---	---	-----------------------	-------------------

Relative: Lower
 HIST LUST SANTA CLARA:
 Region: SANTA CLARA
 SCVWD ID: 06S1W14D01
 Actual: 12 ft.
 Region Code: 2
 Oversight Agency: SFRWQCB
 Date Listed: 1988-06-30 00:00:00
 Closed Date: Not reported

C13 West 1/2-1 2720 ft.	3901 NORTH 1ST STREET SAN JOSE, CA 95134	CHMIRS RESPONSE ENVIROSTOR	S101482409 N/A
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Site 1 of 2 in cluster C
 Relative: Lower
 CHMIRS:
 OES Incident Number: 99-1193
 Actual: 13 ft.
 OES notification: 3/15/199902:11:40 PM
 OES Date: Not reported
 OES Time: Not reported
 Incident Date: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 Special Studies 1: Not reported
 Special Studies 2: Not reported
 Special Studies 3: Not reported
 Special Studies 4: Not reported
 Special Studies 5: Not reported
 Special Studies 6: Not reported
 More Than Two Substances Involved?: Not reported
 Resp Agency Personnel # Of Decontaminated: Not reported
 Responding Agency Personnel # Of Injuries: Not reported
 Responding Agency Personnel # Of Fatalities: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

(Continued)

S101482409

Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: No
Waterway: Not reported
Spill Site: Not reported
Cleanup By: not possible
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 1999
Agency: San Jose Fire/Hazmat
Incident Date: 3/13/1999 12:00:00 AM
Admin Agency: Santa Clara County Health Department
Amount: Not reported
Contained: No
Site Type: Industrial Plant
E Date: Not reported
Substance: Hydrogen Bromide Gas
Quantity Released: Not reported
BBLS: 0
Cups: 0
CUFT: 0
Gallons: 0
Grams: 0
Pounds: 0
Liters: 0
Ounces: 0
Pints: 0
Quarts: 0
Sheen: 0
Tons: 0
Unknown: 0
Description: Not reported
Evacuations: 25
Number of Injuries: 0
Number of Fatalities: 0
Description: Occurred on 3/13/99, vapors released during a fire. Unknown amount possibly released however fire damaged on-site sensors which indicated a release. Fire Dept sensors showed no release occurred however this cannot be neither confirmed nor denied so report is being made. Building was evacuated.

RESPONSE:
Facility ID: 43990001

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S101482409

Site Type: Site Type Detail: Acres: National Priorities List: Cleanup Oversight Agencies: Lead Agency: Lead Agency Description: Project Manager: Supervisor: Division Branch: Site Code: Assembly: Senate: Status: Status Date: Restricted Use: Funding: Latitude: Longitude: Alias Name: Alias Type: APN: APN Description: Comments:	State Response State Response or NPL 4.6 NO SMBRP SMBRP Not reported Not reported Mark Piros North Coast 200071 22 10 Backlog Not reported NO Orphan Funds 37.4083333333333 -121.944444444444 CAD981159072 200071 CYPRESS SEMICONDUCTOR 43990001 NORTH FIRST STREET SITE NORTH FIRST STREET, SAN JOSE SITE NORTH FIRST STREET PROPERTY Alternate Name Alternate Name Alternate Name Alternate Name Envirostor ID Number EPA Identification Number Project Code (Site Code) NONE SPECIFIED Not reported Approved RAP. Due to comments from the RWQCB, the draft RAP was modified to include a limited monitoring program, which is expected to last 10 years. Updated status. Site was delisted from Expenditure Plan on 3/28/1990. Fact sheet issued that describes investigation done to date and why State has concluded no further action is required. Delisted Site. Although the state MCL of .05 ppb for ethylene dibromide (EDB) in drinking water was not met (421 ppb EDB was detected in monitoring well #3), the state chose the "no further action" alternative based on the results of the RI which indicated that the EDB at the site does not pose a significant risk to the public health, safety, or the environment. An aquitard separates waters from the upper, saturated, EDB contaminated zone from those of the lower aquifer. Because of its high salinity, the upper, contaminated water is not likely to be used for drinking water even if the EDB was not present. EDB has been found only in one well (#3). Land around the site has been covered by parking lots, landscaping, or buildings such that no native soils are evident at the surface. Below this is 1.5-3.5 feet of non-native fill brought in during the development of the industrial park. The contamination appears to be historical in nature, rather than on-going, so contamination should decrease with time. EDB breaks down into non-carcinogenic, less toxic compounds. Its half-life is anywhere from 5 days to
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Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

EDR ID Number
EPA ID Number
Database(s)

(Continued)

S101482409

fourteen years. Since public health, welfare, and the environment are not threatened by the site, implementation of removal or remedial measures was deemed not necessary. The site is in limited monitoring involving the sampling and analysis of 5 ground water wells for a period of 10 years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Settlements/Decrees
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Settlements/Decrees
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: / /
Confirmed: NONE SPECIFIED
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: NONE SPECIFIED
Media Affected Desc: Not reported
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: NONE SPECIFIED
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: NONE SPECIFIED

ENVIROSTOR:

Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 4.6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

(Continued)

S101482409

Division Branch: North Coast
Facility ID: 43990001
Site Code: 200071
Assembly: 22
Senate: 10
Special Program: Not reported
Status: Backlog
Status Date: Not reported
Restricted Use: NO
Funding: Orphan Funds
Latitude: 37.4083333333333
Longitude: -121.944444444444
Alias Name: CAD981159072
200071
CYPRESS SEMICONDUCTOR
43990001
NORTH FIRST STREET SITE
NORTH FIRST STREET, SAN JOSE SITE
NORTH FIRST STREET PROPERTY

Alias Type: Alternate Name
Alternate Name
Alternate Name
Alternate Name
Envirostor ID Number
EPA Identification Number
Project Code (Site Code)
APN: NONE SPECIFIED
APN Description: Not reported
Comments: Approved RAP. Due to comments from the RWQCB, the draft RAP was modified to include a limited monitoring program, which is expected to last 10 years. Updated status. Site was delisted from Expenditure Plan on 3/28/1990. Fact sheet issued that describes investigation done to date and why State has concluded no further action is required. Delisted Site. Although the state MCL of .05 ppb for ethylene dibromide (EDB) in drinking water was not met (421 ppb EDB was detected in monitoring well #3), the state chose the "no further action" alternative based on the results of the RI which indicated that the EDB at the site does not pose a significant risk to the public health, safety, or the environment. An aquitard separates waters from the upper, saturated, EDB contaminated zone from those of the lower aquifer. Because of its high salinity, the upper, contaminated water is not likely to be used for drinking water even if the EDB was not present. EDB has been found only in one well (#3). Land around the site has been covered by parking lots, landscaping, or buildings such that no native soils are evident at the surface. Below this is 1.5-3.5 feet of non-native fill brought in during the development of the industrial park. The contamination appears to be historical in nature, rather than on-going, so contamination should decrease with time. EDB breaks down into non-carcinogenic, less toxic compounds. Its half-life is anywhere from 5 days to fourteen years. Since public health, welfare, and the environment are not threatened by the site, implementation of removal or remedial measures was deemed not necessary. The site is in limited monitoring involving the sampling and analysis of 5 ground water wells for a period of 10 years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

(Continued)

S101482409

Completed Document Type: Remedial Action Plan
 Completed Date: //
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Remedial Investigation / Feasibility Study
 Completed Date: //
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Fact Sheets
 Completed Date: //
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Settlements/Decrees
 Completed Date: //
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Settlements/Decrees
 Completed Date: //
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Amendment - Order/Agreement
 Completed Date: //
 Confirmed: NONE SPECIFIED
 Confirmed Description: Not reported
 Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Media Affected: NONE SPECIFIED
 Media Affected Desc: Not reported
 Management Required: NONE SPECIFIED
 Management Required Desc: Not reported
 Potential: NONE SPECIFIED
 Potential Description: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported
 PastUse: NONE SPECIFIED

C14
 West
 1/2-1
 2720 ft.

NORTH FIRST STREET PLUME - SAN JOSE
 3901 NORTH FIRST STREET
 SAN JOSE, CA 95134

CA BOND EXP. PLAN S100833374
 N/A

Site 2 of 2 in cluster C

Relative:
 Lower

Actual:
 13 ft.

CA BOND EXP. PLAN:
 Responsible Party: DETAILED SITE EXPENDITURE PLAN
 Project Revenue Source Company: Not reported
 Project Revenue Source Addr: Not reported
 Project Revenue Source City,St,Zip: Not reported
 Project Revenue Source Desc: At this time, it appears that the Department will need to use Bond funds to remediate this site. If Bond funds are expended, the Department will undertake appropriate cost recovery action if any responsible parties are identified during the investigation. This site has not been identified as an NPL site, nor does it appear to be a candidate in the future. Therefore, federal funds may not be a viable source of revenues for the site.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

NORTH FIRST STREET PLUME - SAN JOSE (Continued)

S100833374

Site Description: The North First Street site is a plume of contaminated ground water. The Local Study Area is within the vicinity of North First Street. It was originally farm land. Only one isolated well is contaminated from an undetermined source.

Hazardous Waste Desc: Baseline water quality sampling identified a significant concentration of ethylene dibromide (EDB) in one well screened in the unconfined aquifer. No other contamination has been identified.

Threat To Public Health & Env: At this time, no known immediate health threat exists at this site. All known and serviceable wells in the area have been tested for EDB. Only one shallow well at the site remains contaminated.

Site Activity Status: Of nine shallow monitoring wells and eight soil borings only the dicoverly well continues to show contamination by EDB. A monitoring well installed to the second water bearing zone and adjacent to the discovery well does not show EDB contamination. The FS is beginning.

D15
 South
 1/2-1
 4360 ft.

MANSION GROVE
4101 LICK MILL BLVD
SANTA CLARA, CA 95050

CA BOND EXP. PLAN **S100833264**
SLIC **N/A**

Site 1 of 2 in cluster D

Relative:
Lower

CA BOND EXP. PLAN:

Reponsible Party: RESPONSIBLE PARTY-LEAD SITE CLEANUP WORKPLAN

Actual:
13 ft.

Project Revenue Source Company: Not reported

Project Revenue Source Addr: Not reported

Project Revenue Source City,St,Zip: Not reported

Project Revenue Source Desc: DHS will be issuing remedial action order or entering into an enforceable agreement with the responsible parties. DHS has budgeted \$100,000 for oversight/monitoring of cleanup efforts. DHS will recover 100 percent of direct costs plus staff costs and overhead related to the project. The responsible parties will pay all costs associated with remedial investigations and cleanup activities.

Site Description: Mansion Grove is a 29 acre residential apartment complex currently under construction. The site was occupied by facilities involved in metals reclamation and the manufacture and recycling of solvents and other chemicals for over 70 years. During excavations for several building foundations, contaminated soil was discovered.

Hazardous Waste Desc: Soil testing has detected the presence of volatile organic compounds including halogenated solvents, naphthalene compounds, polynuclear aromatic compounds and petroleum hydrocarbons. There is potential for ground water contamination.

Threat To Public Health & Env: Residential apartments are located adjacent to areas of contaminated soil. The site is fenced and posted to prevent public contact with contaminated soil.

Site Activity Status: A removal of 6000 cubic yards of contaminated soil adjacent to occupied buildings was completed by the RP under DHS oversight in 1988. Preliminary ground water investigations have been initiated.

SLIC:

Region: STATE
Global Id: SL0608586160
Assigned Name: SLICSITE
Lead Agency Contact: DEREK WHITWORTH
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 43s0678
Responsible Party: Not reported
Recent Dtw: Not reported
Substance Released: 13
Facility Status: Case Open

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)
 EDR ID Number
 EPA ID Number

D16 **MANSION GROVE**
South **4101 LICK MILL BOULEVARD**
1/2-1 **SANTA CLARA, CA 95054**
4360 ft.

RESPONSE **S101272885**
EMI **N/A**
ENVIROSTOR
HIST Cal-Sites

Site 2 of 2 in cluster D

Relative:
Lower

RESPONSE:

Actual:
13 ft.

Facility ID: 43280031
 Site Type: State Response
 Site Type Detail: State Response or NPL
 Acres: 29
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency: SMBRP
 Lead Agency Description: Not reported
 Project Manager: VIRGINIA LASKY
 Supervisor: Karen Toth
 Division Branch: North Coast
 Site Code: 200117
 Assembly: 22
 Senate: 13
 Status: Certified / Operation & Maintenance
 Status Date: 1996-11-15 00:00:00
 Restricted Use: NO
 Funding: Responsible Party
 Latitude: 37.398975
 Longitude: -121.949011111111
 Alias Name: 200117
 CAD982512832
 P23023
 CAD980735971
 43280031
 COMMERCIAL SOLVENT
 JAMES LICK MANSION
 LICK MILL CREEK APARTMENTS
 PROMETHEUS DEVELOPMENT CO INC
 CAD982400293
 Alias Type: Project Code (Site Code)
 HWIS Identification Code
 PCode
 EPA Identification Number
 EPA Identification Number
 Alternate Name
 Alternate Name
 Alternate Name
 Alternate Name
 Envirostor ID Number
 APN: NONE SPECIFIED
 APN Description: Not reported
 Comments: A Removal Action Workplan was approved for the installation of a soil vapor extraction system. Amendment to the Order to include the requirements for the Operation and Maintenance (O&M) of the extraction trench and the three extraction wells (E-6, E-7 and E-8) The Remedial Investigation and Feasibility Study Report confirms the presence of volatile organic compounds in soil and groundwater. The Public Participation plan for the site was approved. A Preliminary Assessment Report was completed and made a recommendation for the inclusion of the site into the State Superfund but will continue to work with Prometheus Development Company to develop a

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

plan for a Remedial Investigation/Feasibility SA Remedial Action Plan was approved on November 30, 1994 which required the installation of groundwater and the expansion of the soil vapor extraction and treatment systems. The 5 Year Review Report indicates that the groundwater and the soil vapor remediation systems are containing the offsite migration of contaminants. The approval of the Operation and Maintenance Plan which lays out plan how to operate and maintain both the soil vapor and the groundwater monitoring and extraction treatment systems. Completed the start-up of the groundwater and the soil vapor extraction and treatment systems. DTSC approved a detailed design for the installation of the soil vapor (expanded) and groundwater monitoring extraction system. The installation of a soil vapor extraction system, including its wells and associated piping and a carbon adsorption unit, were completed to remediate soils contaminated with volatile organic compounds. Removal action completed which consisted of excavation of contaminated soil with volatile organic compounds and disposed to an offsite facility. Report approved. DTSC approved revisions to the Annual Report. DTSC has no technical comments. DTSC has no comments. Fact Sheet provides project updates. An amendment to Order HAS 88-89-019 (November 7, 1996) was also issued to ensure the operation and maintenance of both systems until such time that cleanup objectives are met. Certification - Ongoing operation and maintenance consists of the continued extraction and treatment of the groundwater and soil vapor. A Negative Declaration was adopted for the site. DTSC adopted a Negative Declaration for the proposed RAW. An Order was issued to require Mansion Grove to conduct groundwater monitoring and among other things to , submit a Remedial Investigation/Feasibility Study and a Remedial Action Workplans. tudy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspection Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: / /

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Settlements/Decreases
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, EPA AO)
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: //
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: //
Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Discovery
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: / /
Confirmed: 30022,30027,30028,30192,30195
Confirmed Description: Tetrachloroethylene (PCE)
Confirmed Description: Trichloroethylene (TCE)
Confirmed Description: Vinyl chloride
Confirmed Description: 1,1-Dichloroethane
Confirmed Description: 1,2-Dichloroethylene (cis)
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Media Affected: 30022, 30027, 30028, 30192, 30195
Media Affected Desc: Not reported
Management Required: REM
Management Required Desc: Not reported
Potential: OTH, SOIL, SV
Potential Description: Not reported
Potential Description: Not reported
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: MANUFACTURING - CHEMICALS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

EMI:
Year: 2002
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 10451
Air District Name: BA
SIC Code: 2869
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 10451
Air District Name: BA
SIC Code: 2869
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 10451
Air District Name: BA
SIC Code: 2869
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2005
Carbon Monoxide Emissions Tons/Yr: 43
Air Basin: SF
Facility ID: 10451
Air District Name: BA

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

SIC Code: 2869
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

ENVIROSTOR:

Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 29
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: VIRGINIA LASKY
Supervisor: Karen Toth
Division Branch: North Coast
Facility ID: 43280031
Site Code: 200117
Assembly: 22
Senate: 13
Special Program: Not reported
Status: Certified / Operation & Maintenance
Status Date: 1996-11-15 00:00:00
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.398975
Longitude: -121.949011111111
Alias Name: 200117
CAD982512832
P23023
CAD980735971
43280031
COMMERCIAL SOLVENT
JAMES LICK MANSION
LICK MILL CREEK APARTMENTS
PROMETHEUS DEVELOPMENT CO INC
CAD982400293
Alias Type: Project Code (Site Code)
HWIS Identification Code
PCode
EPA Identification Number
EPA Identification Number
Alternate Name
Alternate Name
Alternate Name
Alternate Name
Envirostor ID Number
APN: NONE SPECIFIED
APN Description: Not reported
Comments: A Removal Action Workplan was approved for the installation of a soil vapor extraction system. Amendment to the Order to include the

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

requirements for the Operation and Maintenance (O&M) of the extraction trench and the three extraction wells (E-6, E-7 and E-8)The Remedial Investigation and Feasibility Study Report confirms the presence of volatile organic compounds in soil and groundwater.The Public Participation plan for the site was approved.A Preliminary Assessment Report was completed and made a recommendation for the inclusion of the site into the State Superfund but will continue to work with Prometheus Development Company to develop a plan for a Remedial Investigation/Feasibility SA Remedial Action Plan was approved on November 30, 1994 which required the installation of groundwater and the expansion of the soil vapor extraction and treatment systems.The 5 Year Review Report indicates that the groundwater and the soil vapor remediation systems are containing the offsite migration of contaminants.The approval of the Operation and Maintenance Plan which lays out plan how to operate and maintain both the soil vapor and the groundwater monitoring and extraction treatment systems.Completed the start-up of the groundwater and the soil vapor extraction and treatment systems.DTSC approved a detailed design for the installation of the soil vapor (expanded) and groundwater monitoring extraction system.The installation of a soil vapor extraction system, including its wells and associated piping and a carbon adsorption unit, were completed to remediate soils contaminated with volatile organic compounds.Removal action completed which consisted of excavation of contaminated soil with volatile organic compounds and disposed to an offsite facility.Report approved.DTSC approved revisions to the Annual Report.DTSC has no technical comments.DTSC has no comments.Fact Sheet provides project updates.An amendment to Order HAS 88-89-019 (November 7, 1996) was also issued to ensure the operation and maintenance of both systems until such time that cleanup objectives are met.Certification - Ongoing operation and maintenance consists of the continued extraction and treatment of the groundwater and soil vapor.A Negative Declaration was adopted for the site.DTSC adopted a Negative Declaration for the proposed RAW.An Order was issued to require Mansion Grove to conduct groundwater monitoring and among other things to , submit a Remedial Investigation/Feasibility Study and a Remedial Action Workplans.tudy.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspection Report
Completed Date: / /

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Settlements/Decrees
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, EPA AO)
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: / /
Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Discovery
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: / /
Confirmed: 30022,30027,30028,30192,30195
Confirmed Description: Tetrachloroethylene (PCE)
Confirmed Description: Trichloroethylene (TCE)
Confirmed Description: Vinyl chloride
Confirmed Description: 1,1-Dichloroethane
Confirmed Description: 1,2-Dichloroethylene (cis)
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2007
Media Affected: 30022, 30027, 30028, 30192, 30195
Media Affected Desc: Not reported
Management Required: REM
Management Required Desc: Not reported
Potential: OTH, SOIL, SV
Potential Description: Not reported
Potential Description: Not reported
Potential Description: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MANSION GROVE (Continued)

S101272885

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: MANUFACTURING - CHEMICALS

HISTORICAL CAL-SITES:

Facility ID: 43280031
Region: 2
Region Name: BERKELEY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 11151996
Status: COM - CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES
IMPLEMENTED REMEDIATION CONTINUES
Status Name: CERTIFIED / OPERATION & MAINTENANCE
Lead Agency: DTSC
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type: RP
Type Name: RESPONSIBLE PARTY
NPL: Not Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: VLASKY
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 22
State Senate District Code: 13

[Click this hyperlink](#) while viewing on your computer to access additional CA_CALSITE: detail in the EDR Site Report.

17 71 VISTA MONTANA
West 71 VISTA MONTANA
1/2-1 SAN JOSE, CA 95134
4412 ft.

VCP S108484748
ENVIROSTOR N/A

Relative: VCP:
Lower Facility ID: 60000591
Site Type: Voluntary Cleanup
Actual: Site Type Detail: Voluntary Cleanup
9 ft. Acres: 4.21
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

71 VISTA MONTANA (Continued)

S108484748

Lead Agency Description: Not reported
Project Manager: Eileen Belding
Supervisor: Mark Piros
Division Branch: North Coast
Site Code: 201738
Assembly: 22
Senate: 10
Status: Active
Status Date: 2007-03-12 00:00:00
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.412643 / -121.95607
Alias Name: 60000591
201738
097-52-027
Alias Type: Envirostor ID Number
APN
Project Code (Site Code)
APN: 097-52-027
APN Description: Not reported
Comments: Not reported
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Confirmed: 30207-NO,30001-NO,30006-NO,30007-NO,30008-NO
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: 30001, 30006, 30007, 30008, 30207
Media Affected Desc: Not reported
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: SOIL
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS

ENVIROSTOR:

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 4.21
NPL: NO

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

71 VISTA MONTANA (Continued)

S108484748

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Eileen Belding
Supervisor: Mark Piros
Division Branch: North Coast
Facility ID: 60000591
Site Code: 201738
Assembly: 22
Senate: 10
Special Program: Not reported
Status: Active
Status Date: 2007-03-12 00:00:00
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.412643
Longitude: -121.95607
Alias Name: 60000591
201738
097-52-027
Alias Type: Envirostor ID Number
APN
Project Code (Site Code)
APN: 097-52-027
APN Description: Not reported
Comments: Not reported
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Confirmed: 30207-NO,30001-NO,30006-NO,30007-NO,30008-NO
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: 30001, 30006, 30007, 30008, 30207
Media Affected Desc: Not reported
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: SOIL
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

18 VISTA MONTANA PARK
WNW 4145 N. 1ST STREET
1/2-1 SAN JOSE, CA 95134
4649 ft.

VCP S107737581
ENVIROSTOR N/A

Relative:
Lower

VCP:

Actual:
8 ft.

Facility ID: 60000294
 Site Type: Voluntary Cleanup
 Site Type Detail: Voluntary Cleanup
 Acres: 20.75
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency: SMBRP
 Lead Agency Description: Not reported
 Project Manager: Eileen Belding
 Supervisor: Mark Piros
 Division Branch: North Coast
 Site Code: 201657
 Assembly: 22
 Senate: 10
 Status: Active
 Status Date: 2006-09-11 00:00:00
 Restricted Use: NO
 Funding: Responsible Party
 Lat/Long: 37.415492 / -121.954557
 Alias Name: 60000294
 201657
 097-53-015
 097-52-028
 097-52-029
 097-52-013
 Alias Type: Envirostor ID Number
 Project Code (Site Code)
 APN
 APN
 APN
 APN
 APN: 097-52-013, 097-52-028, 097-52-029, 097-53-015
 APN Description: Not reported
 APN Description: Not reported
 APN Description: Not reported
 APN Description: Not reported
 Comments: Voluntary Cleanup Agreement signed. Site characterization approved.
 Site investigations indicated that shallow soil is impacted from
 historical pesticide use. Arsenic determined to be primary
 contaminant of concern at site.
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Investigation/Characterization Report
 Completed Date: / /
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Voluntary Clean-up Agreement
 Completed Date: / /
 Confirmed: 30001-NO
 Confirmed Description: Not reported
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Removal Action Workplan

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EPA ID Number
EDR ID Number

VISTA MONTANA PARK (Continued)

S107737581

Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2010
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Neg. Declaration
Future Due Date: 2007
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2010
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Deed Restriction / Land Use Covenant
Future Due Date: 2008
Media Affected: 30001
Media Affected Desc: Not reported
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: SOIL
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: AGRICULTURAL - ORCHARD

ENVIROSTOR:

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 20.75
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Eileen Belding
Supervisor: Mark Piros
Division Branch: North Coast
Facility ID: 60000294
Site Code: 201657
Assembly: 22
Senate: 10
Special Program: Voluntary Cleanup Program
Status: Active
Status Date: 2006-09-11 00:00:00
Restricted Use: NO
Funding: Responsible Party

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

VISTA MONTANA PARK (Continued)

S107737581

Latitude: 37.415492
 Longitude: -121.954557
 Alias Name: 60000294
 201657
 097-53-015
 097-52-028
 097-52-029
 097-52-013
 Alias Type: Envirostor ID Number
 Project Code (Site Code)
 APN
 APN
 APN
 APN
 APN
 APN: 097-52-013, 097-52-028, 097-52-029, 097-53-015
 APN Description: Not reported
 APN Description: Not reported
 APN Description: Not reported
 APN Description: Not reported
 Comments: Voluntary Cleanup Agreement signed. Site characterization approved.
 Site investigations indicated that shallow soil is impacted from
 historical pesticide use. Arsenic determined to be primary
 contaminant of concern at site.
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Investigation/Characterization Report
 Completed Date: / /
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Voluntary Clean-up Agreement
 Completed Date: / /
 Confirmed: 30001-NO
 Confirmed Description: Not reported
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Removal Action Workplan
 Future Due Date: 2007
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Fact Sheets
 Future Due Date: 2007
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Public Notice
 Future Due Date: 2007
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Remedial Action Completion Report
 Future Due Date: 2010
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: CEQA - Initial Study/ Neg. Declaration
 Future Due Date: 2007
 Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Certification
 Future Due Date: 2010

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

VISTA MONTANA PARK (Continued)

S107737581

Future Area Name: PROJECT WIDE
 Future Sub Area Name: Not reported
 Future Document Type: Deed Restriction / Land Use Covenant
 Future Due Date: 2008
 Media Affected: 30001
 Media Affected Desc: Not reported
 Management Required: NONE SPECIFIED
 Management Required Desc: Not reported
 Potential: SOIL
 Potential Description: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported
 PastUse: AGRICULTURAL - ORCHARD

19 **IT, SAN JOSE**
SSE **3010 ZANKER ROAD**
1/2-1 **SAN JOSE, CA 95134**
4824 ft.

ENVIROSTOR S102008396
N/A

Relative:
Higher

ENVIROSTOR:

Actual:
22 ft.

Site Type: Evaluation
 Site Type Detailed: Evaluation
 Acres: 1.8
 NPL: NO
 Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay
 Lead Agency: RWQCB 2 - San Francisco Bay
 Program Manager: CLAUDE JEMISON
 Supervisor: Karen Toth
 Division Branch: North Coast
 Facility ID: 43360127
 Site Code: Not reported
 Assembly: 22
 Senate: 10
 Special Program: Not reported
Status: **Refer: RWQCB**
 Status Date: 2002-06-04 00:00:00
 Restricted Use: NO
 Funding: Responsible Party
 Latitude: 37.3997222222222
 Longitude: -121.9336111111111
 Alias Name: 43360127
 OSCAR E. ERICKSON, INC.
 INDUSTRIAL TANK, INC.
 Alias Type: Alternate Name
 Alternate Name
 Envirostor ID Number
 APN: NONE SPECIFIED
 APN Description: Not reported
 Comments: no comment Completed RA. 54 cubic yards of hazardous soil and 1,830
 cubic yards of non-hazardous soil were excavated, removed and
 disposed off-site.
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Removal Action Completion Report
 Completed Date: / /

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

IT, SAN JOSE (Continued)

S102008396

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: / /
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: / /
Confirmed: NONE SPECIFIED
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: 10002, 30013, 30153
Media Affected Desc: Not reported
Media Affected Desc: Not reported
Media Affected Desc: Not reported
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: NONE SPECIFIED
Potential Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: NONE SPECIFIED

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Databases(s)
COUNTY	S107592179	INTEST	101 NICHOLSON LN SUITE 1	95134	SAN JOSE HAZMAT
SAN JOSE	90188262	AUTOMATION PARKWAY	AUTOMATION PARKWAY		ERNS
SAN JOSE	S106931689	S J CONCRETE PIPE CO	1420 N BAYSHORE HWY 1		SWEEPS UST
SAN JOSE	1007117567	ROBISON PREZ/OSO INC	700 LOS ESTEROS RD ZANKER TANK	95134	RCRA-SQG
SAN JOSE	S100186305	OWENS-CORNING FIBERGLAS CORP LDFL-ALVISO	LOS ESTEROS RD	95134	ENVIROSTOR
SAN JOSE	S103881541	MOITZOZ PROPERTY	NONE BAYPOINTE DRIVE		SLIC
SAN JOSE	99644760	SAN FILIPE ROAD 1 MILE SOUTH OF VILLAGE PARKWAY	SAN FILIPE ROAD 1 MILE SOUTH OF VILLAGE PARKWAY		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 07/31/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/03/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/20/2007	Source: EPA
Date Data Arrived at EDR: 05/03/2007	Telephone: N/A
Date Made Active in Reports: 06/25/2007	Last EDR Contact: 08/03/2007
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/21/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/27/2007	Source: EPA
Date Data Arrived at EDR: 03/21/2007	Telephone: 703-412-9810
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 06/20/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 03/21/2007	Source: EPA
Date Data Arrived at EDR: 04/27/2007	Telephone: 703-412-9810
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 06/15/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/14/2007	Source: EPA
Date Data Arrived at EDR: 03/20/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 06/04/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 09/03/2007
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: (415) 495-8895
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 07/16/2007
Number of Days to Update: 56	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2006	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/24/2007	Telephone: 202-267-2180
Date Made Active in Reports: 03/12/2007	Last EDR Contact: 07/23/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/05/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/17/2007	Telephone: 202-366-4555
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 07/18/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8905
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 04/20/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/26/2007	Telephone: 703-603-8905
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 703-692-8801
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/11/2007
Number of Days to Update: 62	Next Scheduled EDR Contact: 08/06/2007
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 07/02/2007
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/04/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/04/2007	Telephone: 202-566-2777
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 06/11/2007
Number of Days to Update: 51	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 08/23/2006	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 03/06/2007	Telephone: Varies
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 07/24/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/27/2007	Source: EPA
Date Data Arrived at EDR: 03/27/2007	Telephone: 703-416-0223
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/08/2006	Telephone: 505-845-0011
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 07/05/2007
Number of Days to Update: 82	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 04/27/2007	Telephone: 202-566-0250
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 06/19/2007
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/30/2007
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/13/2007	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/25/2007	Telephone: 202-566-1667
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 06/15/2007
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/13/2007	Source: EPA
Date Data Arrived at EDR: 04/25/2007	Telephone: 202-566-1667
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 06/15/2007
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2005	Source: EPA
Date Data Arrived at EDR: 03/13/2007	Telephone: 202-564-4203
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Annually

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/08/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/12/2007	Telephone: 202-564-6023
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 05/01/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/03/2007	Telephone: 202-343-9775
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 08/01/2007
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/01/2006	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 01/08/2007	Telephone: 202-307-1000
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 06/29/2007
Number of Days to Update: 3	Next Scheduled EDR Contact: 09/24/2007
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 06/15/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/21/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/03/2007	Telephone: 202-564-5088
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 06/22/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 07/16/2007
	Data Release Frequency: Quarterly

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 06/11/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2007	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/30/2007	Telephone: 202-366-4595
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/30/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 08/27/2007
	Data Release Frequency: Varies

PADS: PCB Activity Database System

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/17/2006	Source: EPA
Date Data Arrived at EDR: 11/29/2006	Telephone: 202-566-0500
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 06/08/2007
Number of Days to Update: 43	Next Scheduled EDR Contact: 08/06/2007
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/05/2007	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/25/2007	Telephone: 301-415-7169
Date Made Active in Reports: 05/25/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/06/2007	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/28/2007	Telephone: 303-231-5959
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 06/28/2007
Number of Days to Update: 47	Next Scheduled EDR Contact: 09/24/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/12/2007	Source: EPA
Date Data Arrived at EDR: 05/17/2007	Telephone: (415) 947-8000
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/04/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/03/2007
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 06/12/2007
Number of Days to Update: 38	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Biennially

USGS WATER WELLS: National Water Information System (NWIS)

This database consists of well records in the United States. Available site descriptive information includes well location information (latitude and longitude, well depth, site use, water use, and aquifer).

Date of Government Version: 03/25/2005	Source: USGS
Date Data Arrived at EDR: 03/25/2005	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: 03/25/2005
Number of Days to Update: 0	Next Scheduled EDR Contact: N/A
	Data Release Frequency: N/A

PWS: Public Water System Data

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 02/24/2000	Source: EPA
Date Data Arrived at EDR: 04/27/2005	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: 05/21/2007
Number of Days to Update: 0	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 05/25/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/27/2007
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/29/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/30/2007	Telephone: 916-323-3400
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 05/30/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/27/2007
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 07/30/2007
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/11/2007	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 06/13/2007	Telephone: 916-341-6320
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 06/13/2007
Number of Days to Update: 16	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 06/20/2007
Number of Days to Update: 9	Next Scheduled EDR Contact: 09/17/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 06/04/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 09/03/2007
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 05/29/2001	Telephone: 916-323-3400
Date Made Active in Reports: 07/26/2001	Last EDR Contact: 07/23/2007
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 04/09/2007	Source: Department of Conservation
Date Data Arrived at EDR: 04/11/2007	Telephone: 916-323-3836
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/11/2007
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 05/21/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 07/16/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 05/07/2007
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/06/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 07/02/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 04/01/2007
Date Data Arrived at EDR: 04/25/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 15

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 08/01/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 06/25/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 05/14/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 04/10/2007
Date Data Arrived at EDR: 04/11/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 16

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/10/2007
Date Data Arrived at EDR: 04/11/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 16

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/03/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 36

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/14/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 07/02/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 07/02/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 07/17/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 03/13/2007
Date Data Arrived at EDR: 03/14/2007
Date Made Active in Reports: 04/06/2007
Number of Days to Update: 23

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 06/29/2007
Next Scheduled EDR Contact: 08/27/2007
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/10/2007
Date Data Arrived at EDR: 07/11/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 07/11/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Semi-Annually

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/25/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 29

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 06/25/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Varies

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/07/2007
Date Data Arrived at EDR: 05/08/2007
Date Made Active in Reports: 05/25/2007
Number of Days to Update: 17

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/22/2007
Next Scheduled EDR Contact: 08/06/2007
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/2007
Date Data Arrived at EDR: 05/01/2007
Date Made Active in Reports: 05/25/2007
Number of Days to Update: 24

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2005	Source: Office of Emergency Services
Date Data Arrived at EDR: 02/23/2007	Telephone: 916-845-8400
Date Made Active in Reports: 04/06/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 07/16/2007
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/03/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/05/2007	Telephone: 916-323-3400
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 07/03/2007
Number of Days to Update: 22	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/29/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/30/2007	Telephone: 916-323-3400
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 05/30/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/27/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 07/30/2007
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 03/01/2007	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 03/13/2007	Telephone: 213-576-6726
Date Made Active in Reports: 04/06/2007	Last EDR Contact: 07/27/2007
Number of Days to Update: 24	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/07/2007	Telephone: 916-255-6504
Date Made Active in Reports: 04/06/2007	Last EDR Contact: 07/23/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/29/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/30/2007	Telephone: 916-323-3400
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 05/30/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/27/2007
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2005	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 11/20/2006	Telephone: 916-255-1136
Date Made Active in Reports: 01/03/2007	Last EDR Contact: 05/11/2007
Number of Days to Update: 44	Next Scheduled EDR Contact: 08/06/2007
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005	Source: California Air Resources Board
Date Data Arrived at EDR: 04/17/2007	Telephone: 916-322-2990
Date Made Active in Reports: 05/10/2007	Last EDR Contact: 07/20/2007
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 06/07/2007
Date Data Arrived at EDR: 06/08/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 21

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/11/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/29/2007
Date Data Arrived at EDR: 05/30/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/30/2007
Next Scheduled EDR Contact: 08/27/2007
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/11/2007
Next Scheduled EDR Contact: 08/06/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006
Date Data Arrived at EDR: 12/01/2006
Date Made Active in Reports: 01/29/2007
Number of Days to Update: 59

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/14/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 21

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/21/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 03/20/2007	Source: EPA Region 4
Date Data Arrived at EDR: 04/16/2007	Telephone: 404-562-8677
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/30/2007	Source: EPA Region 8
Date Data Arrived at EDR: 05/31/2007	Telephone: 303-312-6271
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/23/2007	Source: EPA Region 10
Date Data Arrived at EDR: 05/24/2007	Telephone: 206-553-2857
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/18/2007	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/18/2007	Telephone: 415-972-3372
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2007	Source: EPA Region 6
Date Data Arrived at EDR: 06/07/2007	Telephone: 214-665-7591
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2007	Source: EPA Region 7
Date Data Arrived at EDR: 06/14/2007	Telephone: 913-551-7003
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 03/20/2007	Source: EPA Region 4
Date Data Arrived at EDR: 04/16/2007	Telephone: 404-562-9424
Date Made Active in Reports: 05/14/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/18/2007	Source: EPA Region 9
Date Data Arrived at EDR: 06/18/2007	Telephone: 415-972-3368
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 17	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 12/01/2006	Source: EPA, Region 1
Date Data Arrived at EDR: 12/01/2006	Telephone: 617-918-1313
Date Made Active in Reports: 01/29/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 59	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 05/21/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 05/30/2007	Source: EPA Region 8
Date Data Arrived at EDR: 05/31/2007	Telephone: 303-312-6137
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 05/23/2007	Source: EPA Region 10
Date Data Arrived at EDR: 05/24/2007	Telephone: 206-553-2857
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 05/21/2007
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Quarterly

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/24/2007
Date Data Arrived at EDR: 04/26/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/24/2007
Date Data Arrived at EDR: 04/26/2007
Date Made Active in Reports: 05/07/2007
Number of Days to Update: 11

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/23/2007
Next Scheduled EDR Contact: 10/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/29/2007
Date Data Arrived at EDR: 05/31/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 29

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/29/2007
Next Scheduled EDR Contact: 08/27/2007
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 17

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/17/2007
Next Scheduled EDR Contact: 08/06/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 06/20/2007
Date Data Arrived at EDR: 06/21/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 06/18/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 07/16/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2007
Date Data Arrived at EDR: 04/12/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 15

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/14/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 05/15/2007
Date Data Arrived at EDR: 06/08/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 21

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 05/16/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 03/27/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 31

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 06/11/2007
Next Scheduled EDR Contact: 09/10/2007
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/04/2006
Date Data Arrived at EDR: 01/09/2007
Date Made Active in Reports: 01/24/2007
Number of Days to Update: 15

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 05/14/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 05/14/2007
Date Data Arrived at EDR: 05/15/2007
Date Made Active in Reports: 06/25/2007
Number of Days to Update: 41

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 05/14/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/30/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 05/29/2007
Date Data Arrived at EDR: 05/29/2007
Date Made Active in Reports: 06/25/2007
Number of Days to Update: 27

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 05/29/2007
Next Scheduled EDR Contact: 08/13/2007
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 05/08/2007
Date Data Arrived at EDR: 06/08/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 47

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 17

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 07/24/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 04/24/2007
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 07/24/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/19/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 10

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/06/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/19/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 10

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/06/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/19/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 06/06/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/04/2007
Date Data Arrived at EDR: 04/05/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 26

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 06/18/2007
Next Scheduled EDR Contact: 09/17/2007
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/21/2007
Date Data Arrived at EDR: 05/22/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 07/16/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 05/21/2007	Source: Health Services Agency
Date Data Arrived at EDR: 05/22/2007	Telephone: 951-358-5055
Date Made Active in Reports: 06/25/2007	Last EDR Contact: 07/16/2007
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/04/2007	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 05/23/2007	Telephone: 916-875-8406
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 07/31/2007
Number of Days to Update: 37	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2007	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 05/24/2007	Telephone: 916-875-8406
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 07/31/2007
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/29/2007
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/23/2007	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 03/27/2007	Telephone: 909-387-3041
Date Made Active in Reports: 04/27/2007	Last EDR Contact: 06/04/2007
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/03/2007
	Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005	Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 05/18/2005	Telephone: 619-338-2268
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 07/05/2007
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 01/03/2007
Date Made Active in Reports: 01/24/2007
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 08/20/2007
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/29/2007
Date Data Arrived at EDR: 04/24/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 16

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 07/03/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 06/08/2007
Date Data Arrived at EDR: 06/12/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 17

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/08/2007
Date Data Arrived at EDR: 06/12/2007
Date Made Active in Reports: 07/25/2007
Number of Days to Update: 43

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 04/06/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 04/24/2007
Number of Days to Update: 14

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/30/2007
Date Data Arrived at EDR: 05/01/2007
Date Made Active in Reports: 05/25/2007
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 04/11/2007
Date Data Arrived at EDR: 04/12/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 10/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 06/25/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/26/2007
Date Data Arrived at EDR: 03/27/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 31

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 06/25/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Varies

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 06/11/2007
Date Data Arrived at EDR: 06/12/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 17

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 06/04/2007
Next Scheduled EDR Contact: 09/03/2007
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/26/2007
Date Data Arrived at EDR: 04/16/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 24

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/26/2007
Date Data Arrived at EDR: 04/18/2007
Date Made Active in Reports: 05/07/2007
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 07/09/2007
Next Scheduled EDR Contact: 09/24/2007
Data Release Frequency: Quarterly

SONOMA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/23/2007	Source: Department of Health Services
Date Data Arrived at EDR: 04/24/2007	Telephone: 707-565-6565
Date Made Active in Reports: 05/10/2007	Last EDR Contact: 07/09/2007
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/22/2007
	Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 07/02/2007
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/01/2007
	Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/30/2007	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 06/22/2007	Telephone: 805-654-2813
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 06/12/2007
Number of Days to Update: 7	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 05/21/2007
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/20/2007
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/05/2007	Source: Environmental Health Division
Date Data Arrived at EDR: 06/21/2007	Telephone: 805-654-2813
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 06/12/2007
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/10/2007
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/28/2007	Source: Environmental Health Division
Date Data Arrived at EDR: 04/24/2007	Telephone: 805-654-2813
Date Made Active in Reports: 05/07/2007	Last EDR Contact: 07/11/2007
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 04/30/2007
Date Data Arrived at EDR: 05/15/2007
Date Made Active in Reports: 06/25/2007
Number of Days to Update: 41

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 07/30/2007
Next Scheduled EDR Contact: 10/15/2007
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/13/2007
Next Scheduled EDR Contact: 09/10/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 04/01/2007
Date Data Arrived at EDR: 04/05/2007
Date Made Active in Reports: 05/08/2007
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/03/2007
Next Scheduled EDR Contact: 10/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 11/29/2006
Date Made Active in Reports: 01/05/2007
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 06/01/2007
Next Scheduled EDR Contact: 08/27/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/11/2007
Next Scheduled EDR Contact: 09/10/2007
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/12/2007
Date Made Active in Reports: 04/27/2007
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/18/2007
Next Scheduled EDR Contact: 09/17/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006

Date Data Arrived at EDR: 04/27/2007

Date Made Active in Reports: 06/08/2007

Number of Days to Update: 42

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 07/09/2007

Next Scheduled EDR Contact: 10/08/2007

Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

166 BAYPOINTE PARKWAY
166 BAYPOINTE PARKWAY
SAN JOSE, CA 95134

TARGET PROPERTY COORDINATES

Latitude (North):	37.41190 - 37° 24' 42.8"
Longitude (West):	121.941 - 121° 56' 27.6"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	593718.7
UTM Y (Meters):	4140889.2
Elevation:	17 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37121-D8 MILPITAS, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

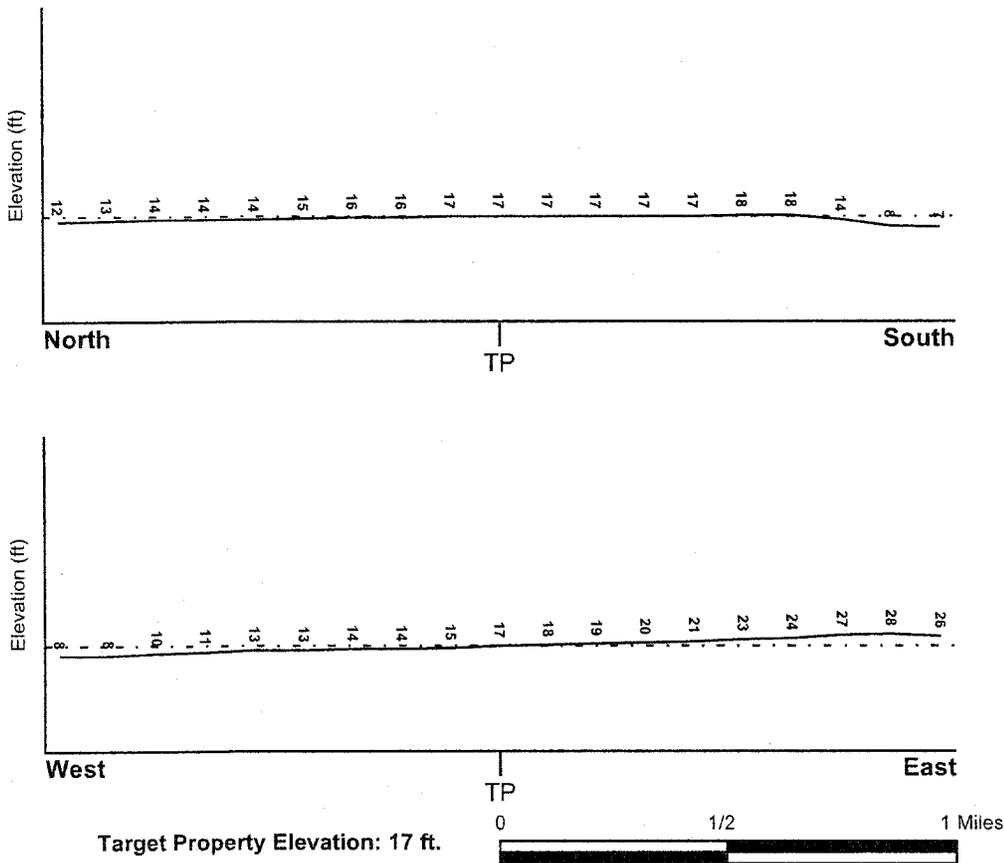
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SANTA CLARA, CA	FEMA Flood Electronic Data YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0603490008F
Additional Panels in search area:	0603490006F 0603440003F 0603370070F 0603500001C 0603490013E

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> MILPITAS	NWI Electronic Data Coverage YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile SSE
Site Name:	Lick James Mansion/Mansion Grove
Site EPA ID Number:	CAD980735971
Surficial Aquifer Flow Dir.:	NOT AVAILABLE.
Measured Depth to Water:	approximately 12 feet.
Hydraulic Connection:	A confining layer separates the surficial and lower aquifers, but an interconnection between the aquifers occurs.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: REYES
Soil Surface Texture: clay
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.
Hydric Status: Soil does not meet the requirements for a hydric soil.
Corrosion Potential - Uncoated Steel: HIGH
Depth to Bedrock Min: > 60 inches
Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 6.50 Min: 3.60
2	14 inches	63 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 6.00 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: mucky - clay
silty clay loam
loam
clay loam
silt loam

Surficial Soil Types: mucky - clay
silty clay loam
loam
clay loam
silt loam

Shallow Soil Types: clay

Deeper Soil Types: mucky - clay
cobble - clay loam
clay loam
stratified
silty clay loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS3223888	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

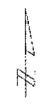
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	6842	1/2 - 1 Mile ESE
3	6846	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 01997080.1r



- ▭ County Boundary
- ▭ Major Roads
- ▭ Contour Lines
- ▭ Earthquake Fault Lines
- ⊙ Earthquake epicenter, Richter 5 or greater
- ⊙ Water Wells
- ⊙ Public Water Supply Wells
- Cluster of Multiple Icons

- ↑ Groundwater Flow Direction
- ⊙(I) Indeterminate Groundwater Flow at Location
- ⊙(V) Groundwater Flow Varies at Location
- ⊙(HD) Closest Hydrogeological Data
- Oil, gas or related wells



<p>SITE NAME: 166 Baypointe Parkway ADDRESS: 166 Baypointe Parkway San Jose CA 95134 LAT/LONG: 37.4119 / 121.9410</p>	<p>CLIENT: GeoCon Environmental Cons. CONTACT: Chris Giuntoli INQUIRY #: 01997080.1r DATE: August 03, 2007 12:08 pm</p>
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
ESE
1/2 - 1 Mile
Higher

FED USGS USGS3223888

Agency cd:	USGS	Site no:	372423121554601
Site name:	006S001W13F006M		
Latitude:	372423.9		
Longitude:	1215546.9	Dec lat:	37.40663889
Dec lon:	-121.92969444	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	085
Country:	US	Land net:	Not Reported
Location map:	MILPITAS	Map scale:	24000
Altitude:	22		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19900830
Date inventoried:	20010628	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	700	Hole depth:	740
Source of depth data:	driller		
Project number:	470657500		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2001-06-28
Water quality data end date:	2001-06-28	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

A2
ESE
1/2 - 1 Mile
Higher

CA WELLS 6842

Water System Information:

Prime Station Code:	06S/01W-13N04 M	User ID:	HEN
FRDS Number:	4310800001	County:	Santa Clara
District Number:	05	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	372424.0 1215543.0	Precision:	100 Feet (one Second)
Source Name:	WELL 04		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	4310800		
System Name:	Agnews Dev. Center - East Campus		
Organization That Operates System:	3500 ZANKER RD		
	SAN JOSE, CA 95114		
Pop Served:	1830	Connections:	34
Area Served:	Not Reported		
Sample Collected:	03/24/2003 00:00:00	Findings:	6.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/24/2003 00:00:00	Findings:	240 UG/L
Chemical:	BARIUM		
Sample Collected:	03/24/2003 00:00:00	Findings:	70 UG/L
Chemical:	ALUMINUM		
Sample Collected:	04/16/2003 00:00:00	Findings:	.77 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/17/2002 00:00:00	Findings:	12 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	07/17/2002 00:00:00	Findings:	.56 UG/L
Chemical:	CHLOROMETHANE		
Sample Collected:	01/17/2001 00:00:00	Findings:	.76 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/20/2002 00:00:00	Findings:	20.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/20/2002 00:00:00	Findings:	710 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/20/2002 00:00:00	Findings:	6.7
Chemical:	PH, LABORATORY		
Sample Collected:	03/20/2002 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03/20/2002 00:00:00	Findings:	180 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/20/2002 00:00:00	Findings:	84 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/20/2002 00:00:00	Findings:	23 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/20/2002 00:00:00	Findings:	30 MG/L
Chemical:	SODIUM		
Sample Collected:	03/20/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/20/2002 00:00:00	Findings:	37 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/20/2002 00:00:00	Findings:	240 UG/L
Chemical:	BARIUM		
Sample Collected:	03/20/2002 00:00:00	Findings:	900 UG/L
Chemical:	IRON		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/20/2002 00:00:00	Findings:	160 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/20/2002 00:00:00	Findings:	460 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/20/2002 00:00:00	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/17/2002 00:00:00	Findings:	.54 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	04/17/2002 00:00:00	Findings:	.12 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/17/2002 00:00:00	Findings:	.94 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/17/2002 00:00:00	Findings:	5.2 MG/L
Chemical:	SILICA		
Sample Collected:	07/17/2002 00:00:00	Findings:	5.2 MG/L
Chemical:	SILICA		
Sample Collected:	10/23/2002 00:00:00	Findings:	.98 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/13/2003 00:00:00	Findings:	1.2 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	01/13/2003 00:00:00	Findings:	1.2 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	01/13/2003 00:00:00	Findings:	.83 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/24/2003 00:00:00	Findings:	19.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/24/2003 00:00:00	Findings:	700 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/24/2003 00:00:00	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	03/24/2003 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03/24/2003 00:00:00	Findings:	270 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/24/2003 00:00:00	Findings:	73 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/24/2003 00:00:00	Findings:	21 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/24/2003 00:00:00	Findings:	36 MG/L
Chemical:	SODIUM		
Sample Collected:	03/24/2003 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/24/2003 00:00:00	Findings:	35 MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/24/2003 00:00:00	Findings:	880 UG/L
Chemical:	IRON		
Sample Collected:	03/24/2003 00:00:00	Findings:	170 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/24/2003 00:00:00	Findings:	440 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/27/2003 00:00:00	Findings:	.83 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/20/2004 00:00:00	Findings:	.83 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/03/2004 00:00:00	Findings:	710 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/03/2004 00:00:00	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	03/03/2004 00:00:00	Findings:	250 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03/03/2004 00:00:00	Findings:	290 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/03/2004 00:00:00	Findings:	79 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/03/2004 00:00:00	Findings:	23 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/18/2004 00:00:00	Findings:	1.04 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/10/2005 00:00:00	Findings:	1.22 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/11/2005 00:00:00	Findings:	1.28 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/17/2005 00:00:00	Findings:	1.59 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/14/2003 00:00:00	Findings:	.73 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/27/2003 00:00:00	Findings:	1.5 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/03/2004 00:00:00	Findings:	34 MG/L
Chemical:	SODIUM		
Sample Collected:	03/03/2004 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/03/2004 00:00:00	Findings:	36 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/03/2004 00:00:00	Findings:	290 UG/L
Chemical:	IRON		
Sample Collected:	03/03/2004 00:00:00	Findings:	170 UG/L
Chemical:	MANGANESE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/03/2004 00:00:00	Findings:	14 UG/L
Chemical:	NICKEL		
Sample Collected:	03/03/2004 00:00:00	Findings:	430 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/03/2004 00:00:00	Findings:	6.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/03/2004 00:00:00	Findings:	240 UG/L
Chemical:	BARIUM		
Sample Collected:	04/19/2004 00:00:00	Findings:	.83 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/14/2004 00:00:00	Findings:	610 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/14/2004 00:00:00	Findings:	8.15
Chemical:	PH, FIELD		
Sample Collected:	07/14/2004 00:00:00	Findings:	9.31
Chemical:	PH, LABORATORY		
Sample Collected:	07/14/2004 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	07/14/2004 00:00:00	Findings:	293 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/14/2004 00:00:00	Findings:	290 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	07/14/2004 00:00:00	Findings:	74 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/14/2004 00:00:00	Findings:	26 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/14/2004 00:00:00	Findings:	37 MG/L
Chemical:	SODIUM		
Sample Collected:	07/14/2004 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/14/2004 00:00:00	Findings:	35 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/14/2004 00:00:00	Findings:	.14 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07/14/2004 00:00:00	Findings:	4.5 MG/L
Chemical:	SILICA		
Sample Collected:	07/14/2004 00:00:00	Findings:	2.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	07/14/2004 00:00:00	Findings:	290 UG/L
Chemical:	BARIUM		
Sample Collected:	07/14/2004 00:00:00	Findings:	120 UG/L
Chemical:	BORON		
Sample Collected:	07/14/2004 00:00:00	Findings:	1700 UG/L
Chemical:	IRON		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/14/2004 00:00:00	Findings:	130 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/14/2004 00:00:00	Findings:	400 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/14/2004 00:00:00	Findings:	1.66 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

3

South
1/2 - 1 Mile
Lower

CA WELLS 6846

Water System Information:

Prime Station Code:	06S/01W-23C03 M	User ID:	43C
FRDS Number:	4300800001	County:	Santa Clara
District Number:	73	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	372402.0 1215630.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	4300800		
System Name:	CAMSI III		
Organization That Operates System:	Not Reported		
Pop Served:	12	Connections:	Unknown, Small System
Area Served:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95134	1	0	0.00

Federal EPA Radon Zone for SANTA CLARA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SANTA CLARA COUNTY, CA

Number of sites tested: 70

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.363 pCi/L	91%	9%	0%
Living Area - 2nd Floor	2.100 pCi/L	100%	0%	0%
Basement	2.300 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water
Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water
Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Health Services
Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation
Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information

Source: USGS
Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

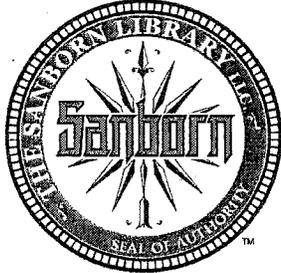
Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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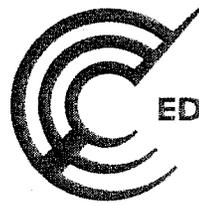


Sanborn® Library search results
Certification # F9E2-469C-A77F

166 & 210 Baypointe Parkway
166 & 210 Baypointe Parkway
San Jose, CA 95134

Inquiry Number 1990542.3

July 27, 2007



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

Certified Sanborn® Map Report

7/27/07

Site Name:

166 & 210 Baypointe Parkway
166 & 210 Baypointe Parkway
San Jose, CA 95134

Client Name:

GeoCon Environmental Cons.
6671 Brisa Street
Livermore, CA 94550

EDR Inquiry # 1990542.3

Contact: Chris Giuntoli



EDR® Environmental
Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by GeoCon Environmental Cons. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 166 & 210 Baypointe Parkway
Address: 166 & 210 Baypointe Parkway
City, State, Zip: San Jose, CA 95134
Cross Street:
P.O. # NA
Project: E8420-06-01
Certification # F9E2-469C-A77F



Sanborn® Library search results
Certification # F9E2-469C-A77F

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

Total Maps: 0

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EDR® Environmental Data Resources Inc



Real Estate Research
& Information

The EDR Environmental Lien Search Report

**166 AND 210 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA**

Monday, August 6, 2007

Project Number: L07-06794

The Standard In Environmental Risk Management Information

440 Wheelers Farm Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

ENVIRONMENTAL LIEN REPORT

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments

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ENVIRONMENTAL LIEN REPORT

The EDR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

166 and 210 Baypointe Parkway
San Jose, California

RESEARCH SOURCE

Source: Santa Clara County Assessor
Santa Clara County Recorder

DEED INFORMATION

Type of Instrument: Grant Deed

Title is vested in: William H. Cilker and Leila A. Cilker, Trustees for the Cilker Revocable Trust, under Trust Agreement dated 10/09/1990

Title received from: William H. Cilker and Leila A. Cilker, husband and wife

Deed Dated: 05/18/1998
Deed Recorded: 06/03/1998
Instrument: 14217084

LEGAL DESCRIPTION

All of Lot 5, in Tract 7544, according to the map or plat thereof, as filed of record in Book 525, Pages 45 and 46, and the Certificate of Correction, recorded 08/08/1985 in Book J422, Page 1784, Santa Clara County, State of California

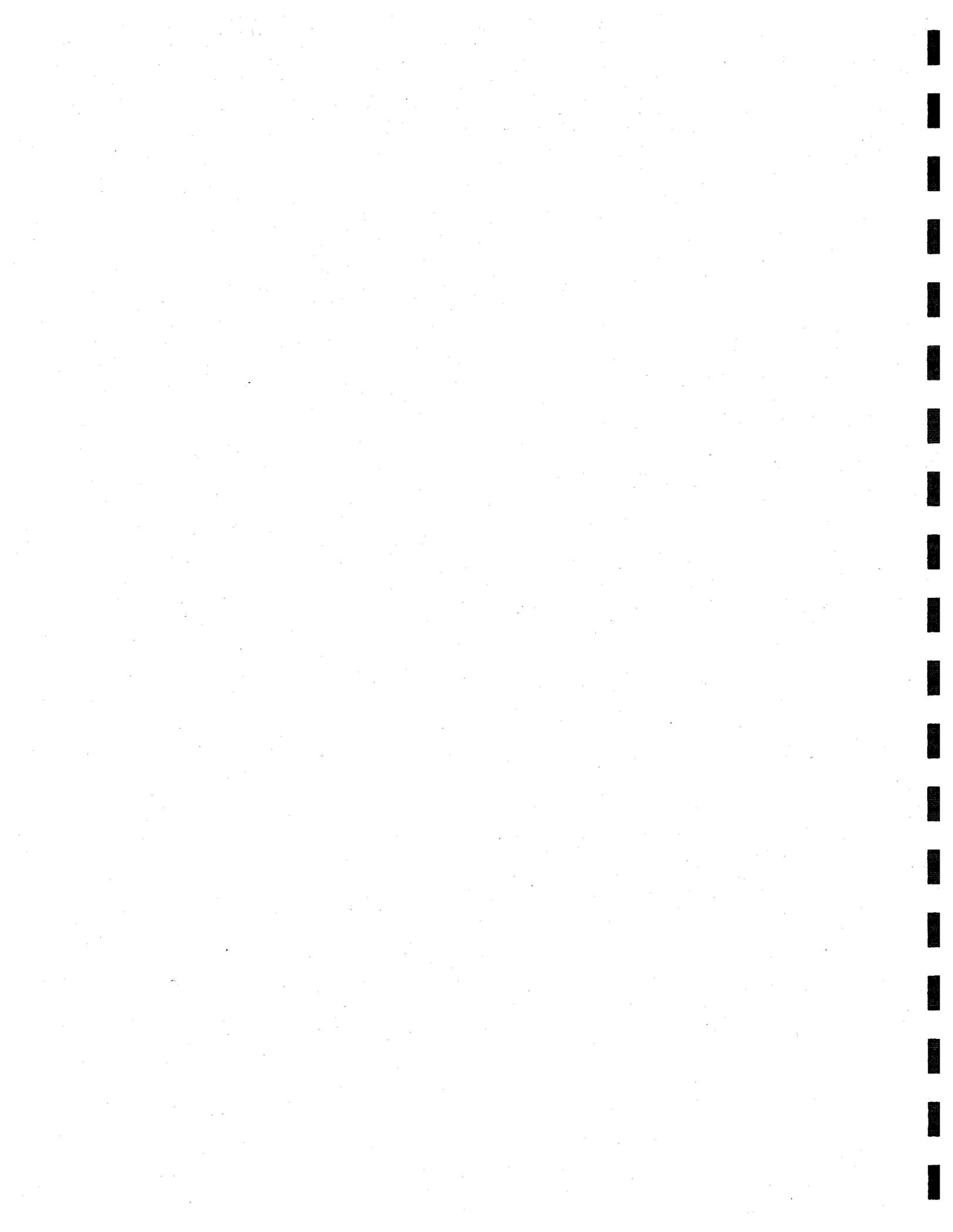
Assessor's Parcel Number(s): 097-07-072

ENVIRONMENTAL LIEN

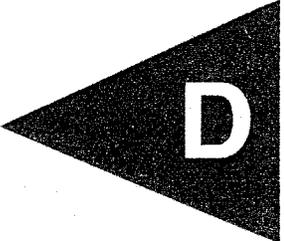
Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found Not Found



APPENDIX



D



EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**166 & 210 Baypointe Parkway
166 & 210 Baypointe Parkway
San Jose, CA 95134**

Inquiry Number: 1990542.5

July 30, 2007

The Standard in Environmental Risk Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography July 30, 2007

Target Property:

166 & 210 Baypointe Parkway

San Jose, CA 95134

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1956	Aerial Photograph. Scale: 1"=555'	Flight Year: 1956	Aero
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	WSA
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1999	Aerial Photograph. Scale: 1"=666'	Flight Year: 1999	USGS



INQUIRY #: 1990542.5

YEAR: 1939

— = 555'





INQUIRY #: 1990542.5

YEAR: 1956

| = 555'



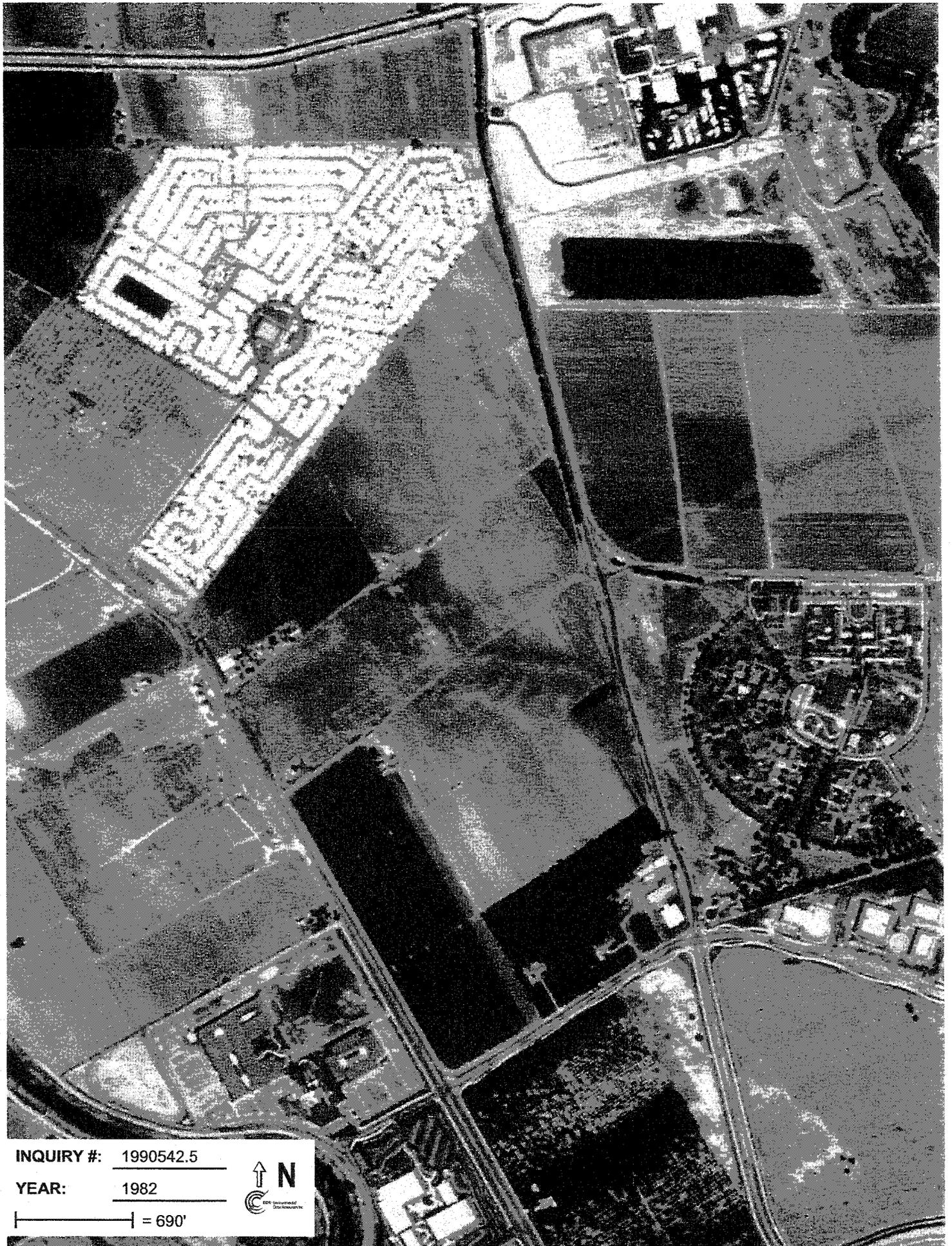


INQUIRY #: 1990542.5

YEAR: 1965

— = 333'





INQUIRY #: 1990542.5

YEAR: 1982

| = 690'





INQUIRY #: 1990542.5

YEAR: 1993

— = 666'





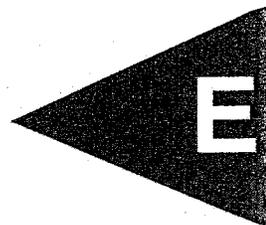
INQUIRY #: 1990542.5

YEAR: 1999

| = 666'



APPENDIX





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**166 & 210 Baypointe Parkway
166 & 210 Baypointe Parkway
San Jose, CA 95134**

Inquiry Number: 1990542.4

July 30, 2007

The Standard in Environmental Risk Information

**440 Wheelers Farms Rd
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

EDR Historical Topographic Map Report

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Please contact EDR at 1-800-352-0050
with any questions or comments.

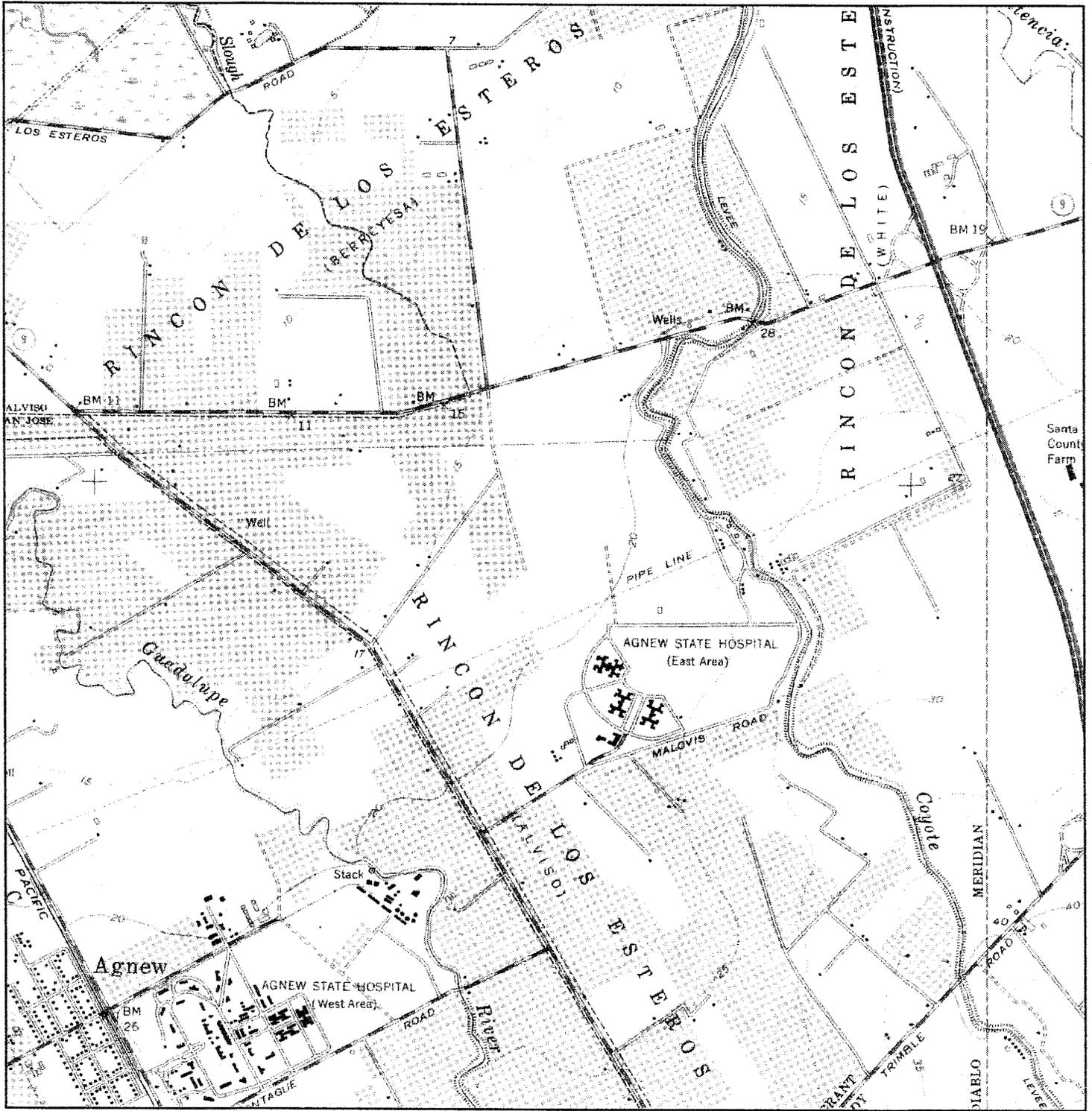
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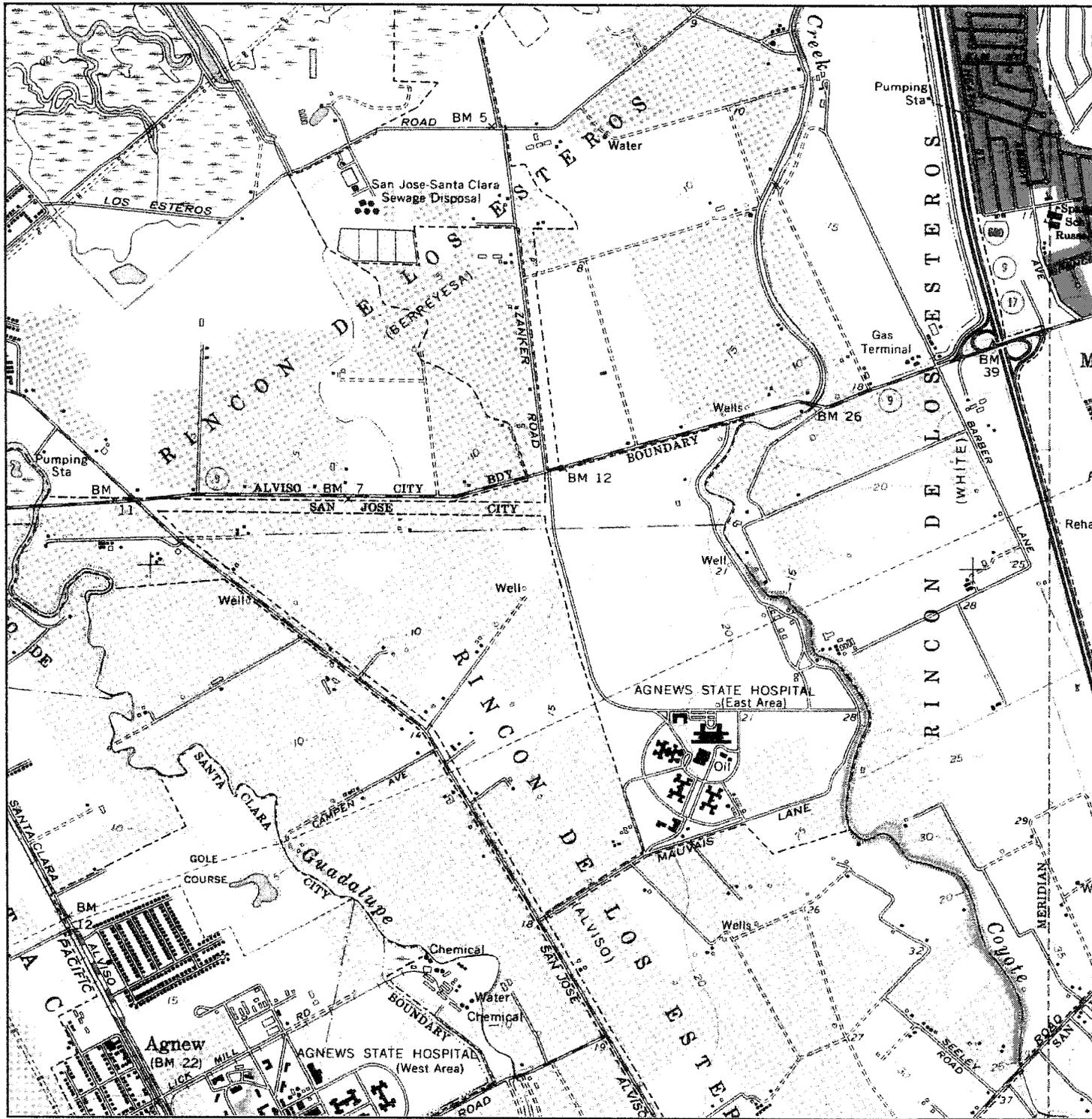
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Historical Topographic Map



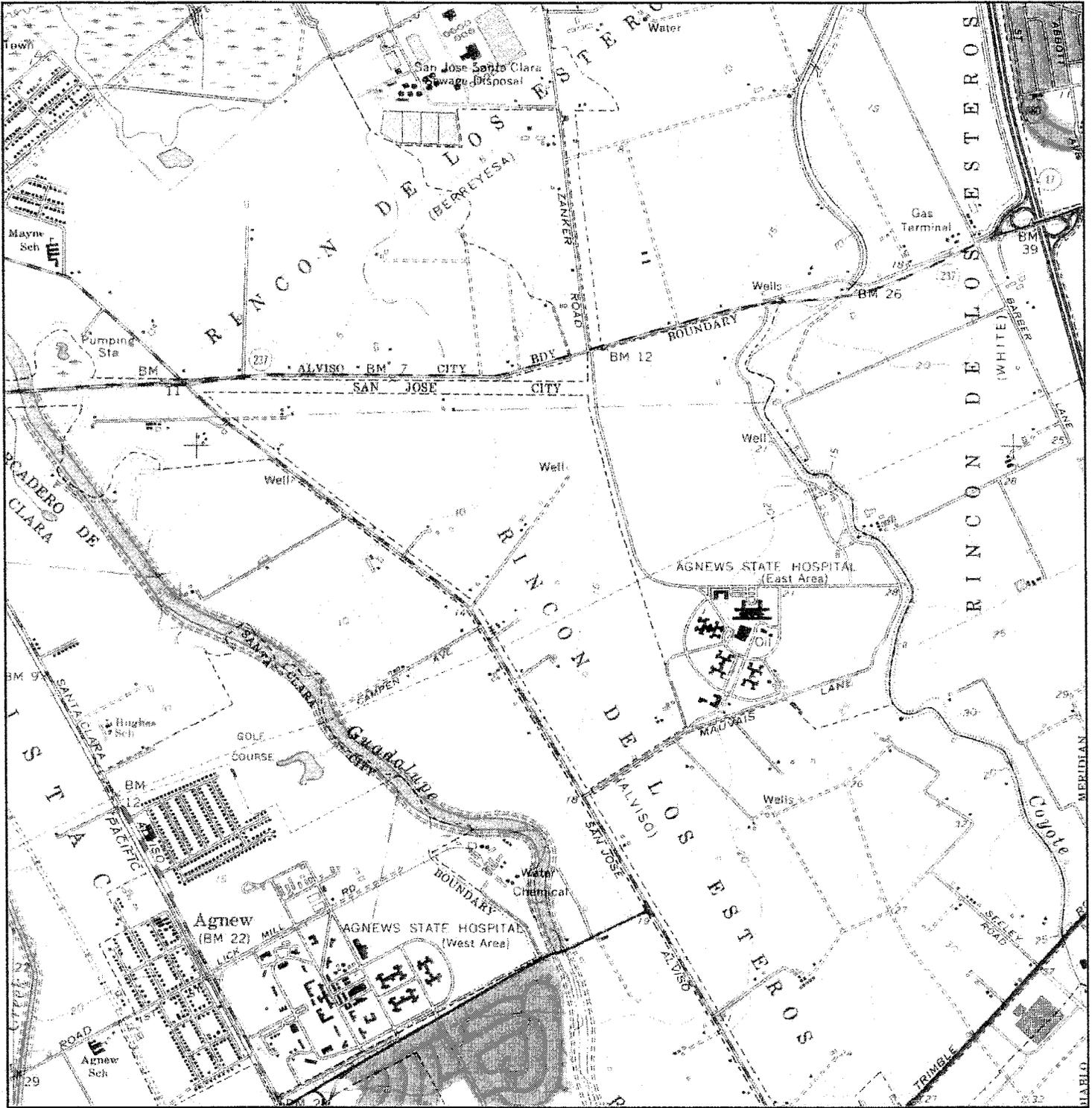
N 	TARGET QUAD NAME: MILPITAS MAP YEAR: 1953	SITE NAME: 166 & 210 Baypointe Parkway ADDRESS: 166 & 210 Baypointe Parkway San Jose, CA 95134 LAT/LONG: 37.4135 / 121.9398	CLIENT: GeoCon Environmental Cons. CONTACT: Chris Giuntoli INQUIRY#: 1990542.4 RESEARCH DATE: 07/30/2007
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



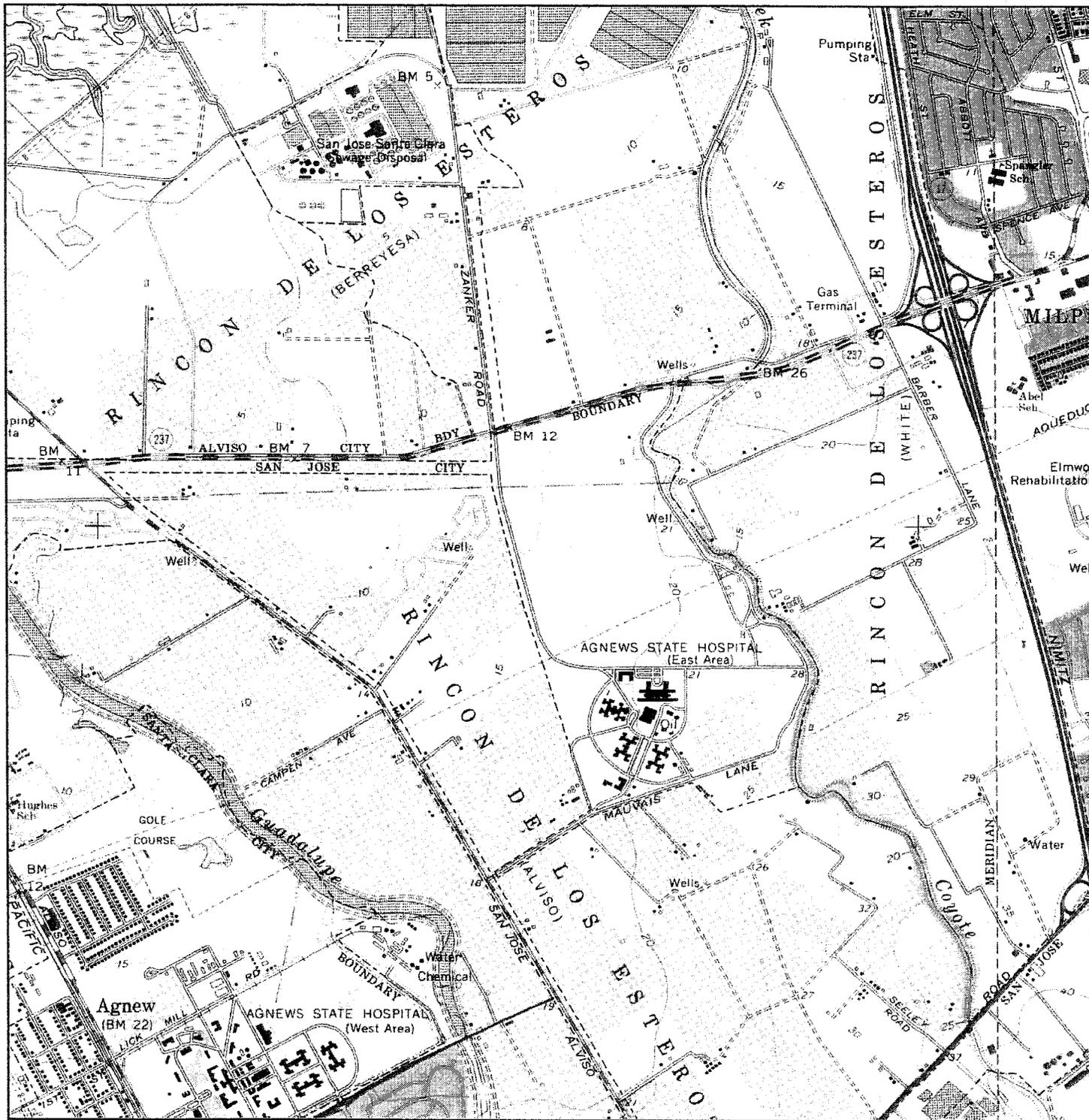
N 	TARGET QUAD	SITE NAME: 166 & 210 Baypointe Parkway	CLIENT: GeoCon Environmental Cons.
	NAME: MILPITAS	ADDRESS: 166 & 210 Baypointe Parkway	CONTACT: Chris Giuntoli
	MAP YEAR: 1961	San Jose, CA 95134	INQUIRY#: 1990542.4
		LAT/LONG: 37.4135 / 121.9398	RESEARCH DATE: 07/30/2007
SERIES: 7.5			
SCALE: 1:24000			

Historical Topographic Map



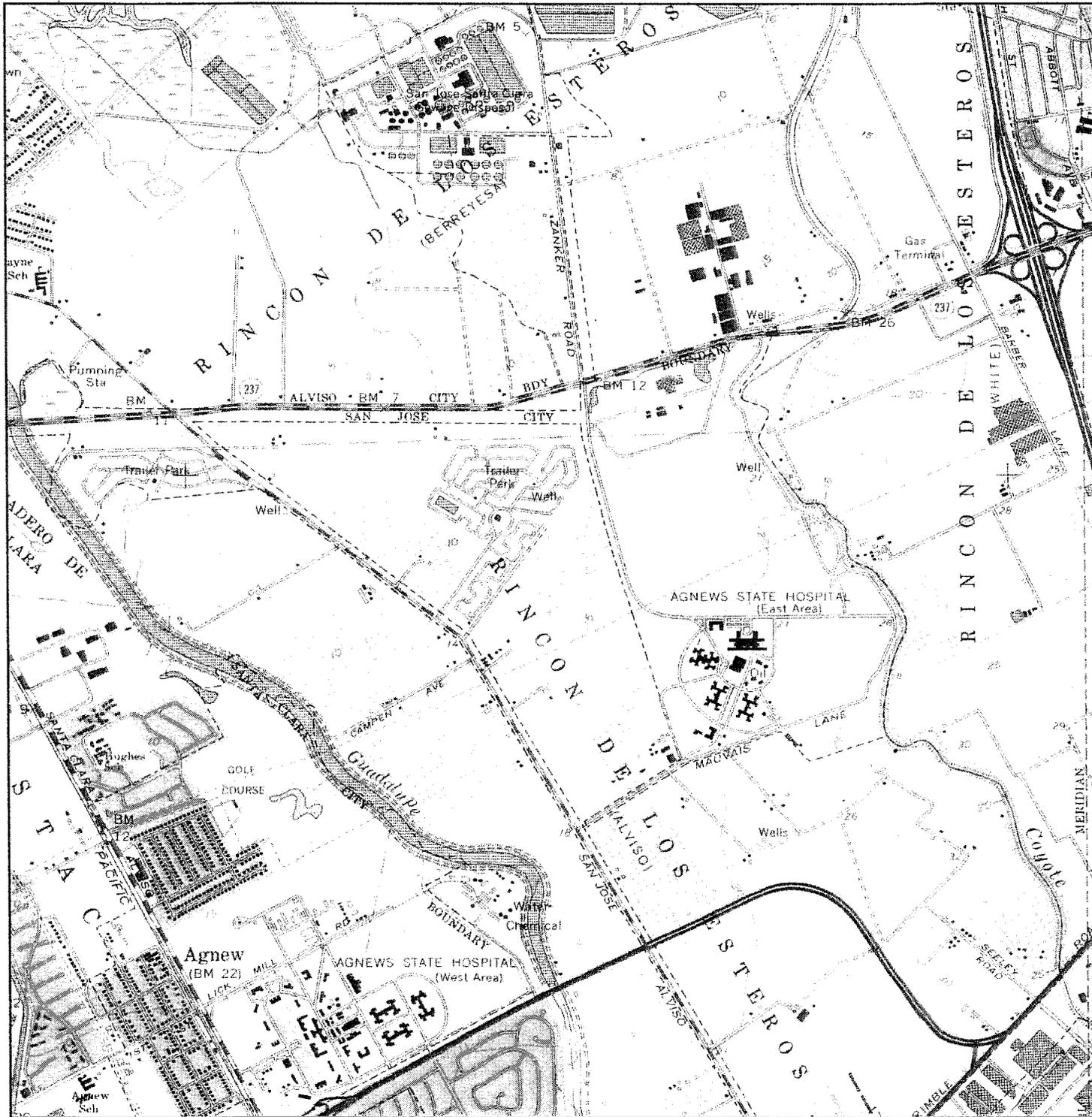
<p>N ↑</p>	TARGET QUAD	SITE NAME:	166 & 210 Baypointe Parkway	CLIENT:	GeoCon Environmental Cons.
	NAME: MILPITAS	ADDRESS:	166 & 210 Baypointe Parkway	CONTACT:	Chris Giuntoli
	MAP YEAR: 1968		San Jose, CA 95134	INQUIRY#:	1990542.4
	PHOTOREVISED FROM: 1961	LAT/LONG:	37.4135 / 121.9398	RESEARCH DATE:	07/30/2007
	SERIES: 7.5				
	SCALE: 1:24000				

Historical Topographic Map



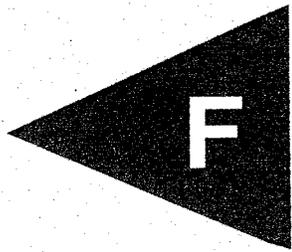
<p>N ↑</p>	TARGET QUAD	SITE NAME:	166 & 210 Baypointe Parkway	CLIENT:	GeoCon Environmental Cons.	
	NAME:	MILPITAS	ADDRESS:	166 & 210 Baypointe Parkway	CONTACT:	Chris Giuntoli
	MAP YEAR:	1973		San Jose, CA 95134	INQUIRY#:	1990542.4
	PHOTOREVISED FROM:	1961	LAT/LONG:	37.4135 / 121.9398	RESEARCH DATE:	07/30/2007
	SERIES:	7.5				
	SCALE:	1:24000				

Historical Topographic Map

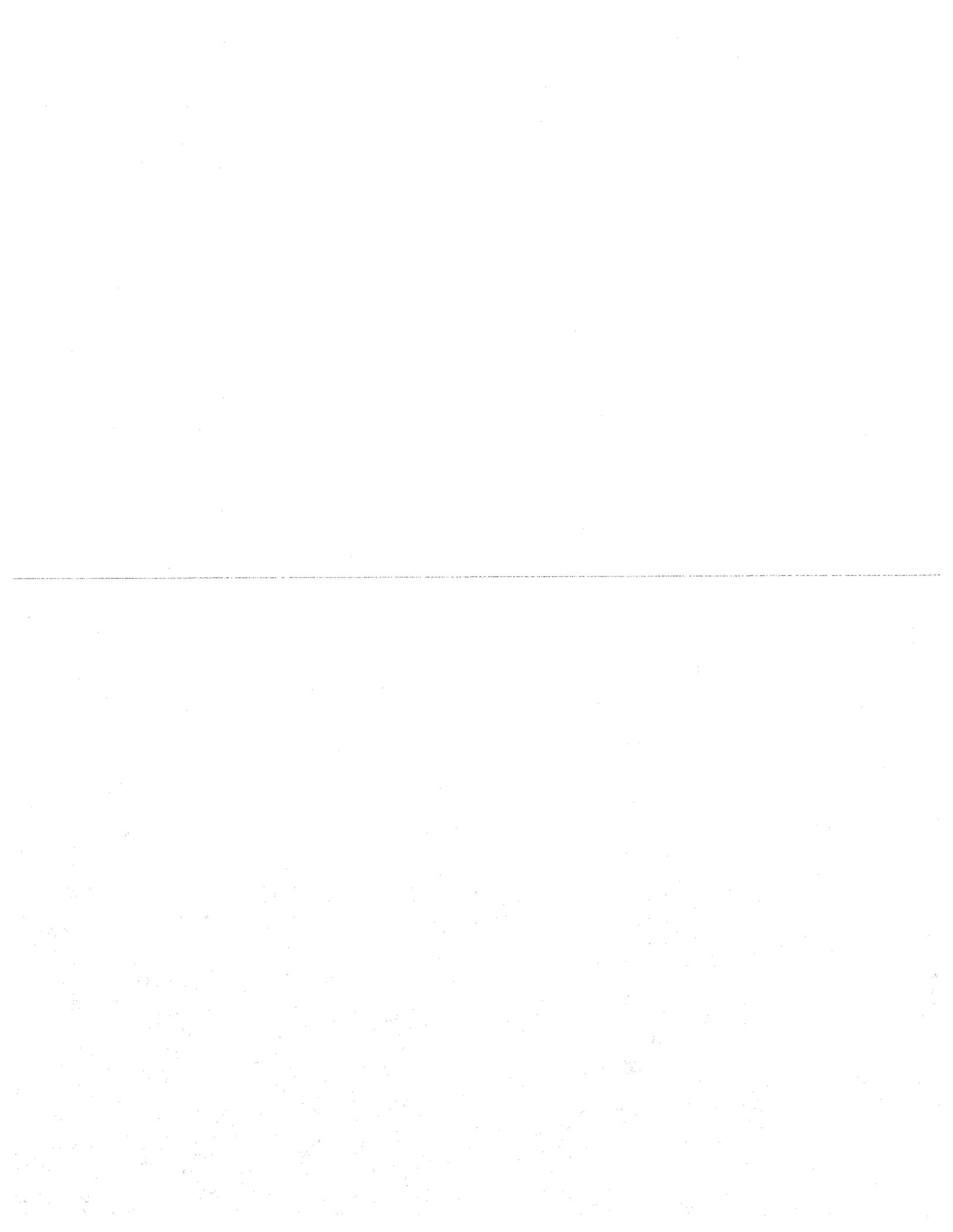


<p>N ↑</p>	TARGET QUAD	SITE NAME:	166 & 210 Baypointe Parkway	CLIENT:	GeoCon Environmental Cons.	
	NAME:	MILPITAS	ADDRESS:	166 & 210 Baypointe Parkway	CONTACT:	Chris Giuntoli
	MAP YEAR:	1980		San Jose, CA 95134	INQUIRY#:	1990542.4
	PHOTOREVISED FROM:	1961	LAT/LONG:	37.4135 / 121.9398	RESEARCH DATE:	07/30/2007
	SERIES:	7.5				
	SCALE:	1:24000				

APPENDIX



F





EDR® Environmental
Data Resources Inc

The EDR-City Directory
Abstract

166 & 210 Baypointe Parkway
166 Baypointe Parkway
San Jose, CA 95134

Inquiry Number: 1990542.6

Monday, August 06, 2007

**The Standard in
Environmental Risk
Information**

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2001. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

This report compiles information by geocoding the subject properties (that is, plotting the latitude and longitude for such subject properties and obtaining data concerning properties within 1/8th of a mile of the subject properties). There is no warranty or guarantee that geocoding will report or list all properties within the specified radius of the subject properties and any such warranty or guarantee is expressly disclaimed. Accordingly, some properties within the aforementioned radius and the information concerning those properties may not be referenced in this report.

Date EDR Searched Historical Sources: August 6, 2007

Target Property:

166 Baypointe Parkway
San Jose, CA 95134

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1922	Address Not Listed in Research Source	R. L. POLK & CO.
1925	Address Not Listed in Research Source	R. L. POLK & CO.
1926	Address Not Listed in Research Source	R. L. Polk Co.
1930	Address Not Listed in Research Source	R. L. POLK & CO. OF CALIFORNIA
1931	Address Not Listed in Research Source	R. L. POLK & CO.
1935	Address Not Listed in Research Source	R. L. POLK & CO.
1936	Address Not Listed in Research Source	R. L. POLK & CO.
1940	Address Not Listed in Research Source	R. L. POLK & CO.
1942	Address Not Listed in Research Source	R. L. POLK & CO.
1945	Address Not Listed in Research Source	R. L. POLK & CO.
1946	Address Not Listed in Research Source	R. L. POLK & CO.
1950	Address Not Listed in Research Source	R. L. POLK & CO.
1955	Address Not Listed in Research Source	R. L. POLK & CO.
1957	Address Not Listed in Research Source	PACIFIC TELEPHONE
1960	Address Not Listed in Research Source	R. L. POLK & CO.
1962	Address Not Listed in Research Source	R. L. POLK & CO.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1963	Address Not Listed in Research Source	PACIFIC TELEPHONE
1964	Address Not Listed in Research Source	R. L. POLK & CO.
1965	Address Not Listed in Research Source	R. L. POLK & CO.
1966	Address Not Listed in Research Source	R. L. POLK & CO.
1968	Address Not Listed in Research Source	R. L. POLK & CO.
1970	Address Not Listed in Research Source	R. L. POLK & CO.
1974	Address Not Listed in Research Source	R. L. POLK & CO.
1975	Address Not Listed in Research Source	PACIFIC TELEPHONE
1978	Address Not Listed in Research Source	R. L. POLK & CO.
1980	Address Not Listed in Research Source	PACIFIC TELEPHONE
1982	Address Not Listed in Research Source	PACIFIC TELEPHONE
1985	Address Not Listed in Research Source	PACIFIC BELL
1986	Address Not Listed in Research Source	Pacific Bell
1991	<u>**BAYPOINTE PKY**</u> HYUNDAL ELECTRONICS (166)	PACIFIC BELL WHITE PAGES
1996	<u>**BAYPOINTE PKY**</u> JTS CORP (166)	Pacific Bell Street Address Telephone Directory San Jose December 1996
2000	<u>**BAYPOINTE PKY**</u> CILKER WILLIAM JTSCORP (166)	HAINES & COMPANY
2001	Address Not Listed in Research Source	HAINES & COMPANY, INC.

Adjoining Properties

SURROUNDING

Multiple Addresses
San Jose, CA 95134

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1922	Address Not Listed in Research Source	R. L. POLK & CO.
1925	Address Not Listed in Research Source	R. L. POLK & CO.
1926	Address Not Listed in Research Source	R. L. Polk Co.
1930	Address Not Listed in Research Source	R. L. POLK & CO. OF CALIFORNIA
1931	Address Not Listed in Research Source	R. L. POLK & CO.
1935	Address Not Listed in Research Source	R. L. POLK & CO.
1936	Address Not Listed in Research Source	R. L. POLK & CO.
1940	Address Not Listed in Research Source	R. L. POLK & CO.
1942	Address Not Listed in Research Source	R. L. POLK & CO.
1945	Address Not Listed in Research Source	R. L. POLK & CO.
1946	Address Not Listed in Research Source	R. L. POLK & CO.
1950	Address Not Listed in Research Source	R. L. POLK & CO.
1955	Address Not Listed in Research Source	R. L. POLK & CO.
1957	Address Not Listed in Research Source	PACIFIC TELEPHONE
1960	Address Not Listed in Research Source	R. L. POLK & CO.
1962	Address Not Listed in Research Source	R. L. POLK & CO.
1963	Address Not Listed in Research Source	PACIFIC TELEPHONE
1964	Address Not Listed in Research Source	R. L. POLK & CO.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	Address Not Listed in Research Source	R. L. POLK & CO.
1966	Address Not Listed in Research Source	R. L. POLK & CO.
1968	Address Not Listed in Research Source	R. L. POLK & CO.
1970	Address Not Listed in Research Source	R. L. POLK & CO.
1974	Address Not Listed in Research Source	R. L. POLK & CO.
1975	**EL BOSQUE AVE** GARDINER GARY (239)	PACIFIC TELEPHONE
	EL BOSQUE ST HODGES GALE (158) DEVER J FRED (170) MORSE HARRY I (176) STROM J (181) MORALES W G (227) SHILNUOVER SAMSON (281)	PACIFIC TELEPHONE
1978	Address Not Listed in Research Source	R. L. POLK & CO.
1980	**EL BOSQUE AVE** CABAN ART (235) VILLA V (266) WALSH RICHARD C MAJ (289)	PACIFIC TELEPHONE
	EL BOSQUE DR MC CUTCHEN M (243) GOAIES KEN (245) HARTNETT JAMES K (249) WALLACEN LAURA (270) SIEGLINDE AMOR (273)	PACIFIC TELEPHONE
	EL BOSQUE ST JOANIES PLACE (160) ASHABRAN GWEN (161) BUCKY HARRIS MUSICAL SERVICES (165) MURRELL H H (181) SKELTON TIM (184) KENNEDY RAY (186) MINER THOMAS & FLO (221) ASHABRAN GREG & SANDI (222)	PACIFIC TELEPHONE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	(continued)	
	BURNS DAVE (229)	
	PETERSON ROBERT H (240)	
	SCOTT CJ (250)	
	ANELLO CARL & MARGARET (252)	
	SHANNON DEBBIE (255)	
	SWEATT FRANCES J (274)	
1982	Address Not Listed in Research Source	PACIFIC TELEPHONE
1985	**EL BOSQUE ST**	PACIFIC BELL
	CLEGG RICHARD E (156)	
	LEAFE DAVE (158)	
	DANGELO ANTHONY (163)	
	BREUER D & JOHN (172)	
	KOUDELKA JAS F (173)	
	CLARK BRUCE & LINDA (174)	
	EUREKA LOG HOMES INC (176)	
	KESTERSON ROBT (176)	
	WOLVERTON E C (176)	
	MULLIGAN TIMOTHY (177)	
	HAVNEN S F (179)	
	MURRELL H H (181)	
1986	**EL BOSQUE AVE**	Pacific Bell
	OCONNOR TIM & MARY (286)	
	SUMMERS CRAIG & CONI (287)	
	EL BOSQUE DR	Pacific Bell
	DAWES SUSAN C (244)	
	HOWELL ROBT (245)	
	MARTIN BARBARA (269)	
	WALLACE DONAVON R (270)	
	WALLACE LAURA (270)	
	PAPLOW STEVEN (273)	
	EL BOSQUE ST	Pacific Bell
	LEAFE DAVE (158)	
	DANGELO ANTHONY (163)	
	ROGERSON FRED (164)	
	KOUDELKA JAS F (173)	
	WINTER SARAH (176)	
	CHASTAIN G F SR (224)	
	GOOSEY M M (225)	
	HARRISON J (240)	
1991	**EL BOSQUE AVE**	PACIFIC BELL WHITE PAGES
	BENTLEY FRANK & BRYAN (286)	

Year Uses

Source

1991 (continued)

DAUGHERTY JOHN & STEPHANIE (289)

****EL BOSQUE DR****

PACIFIC BELL WHITE PAGES

HOWELL ROBT (245)

LEE BRUCE (248)

CURCLO ANGELO (269)

WALLACE LF TILE CO (270)

WALLACE DONAVON R (270)

ILACE LAURA (270)

****EL BOSQUE ST****

PACIFIC BELL WHITE PAGES

SANFORD KAY (156)

LEAFE DAVE (158)

ROGERSON FRED (164)

BREUER JOHN (172)

LINDER J R (176)

GOOSEY MM (225)

BERRY PATRICIA (226)

WILSON M F (228)

BURNS M K (229)

AMOR RAYMOND (231)

SMALL LESTER J (233)

LAWRENCE S (235)

MC CRAYL (238)

LARRUS MARC (240)

****BAYPOINTE PKY****

PACIFIC BELL WHITE PAGES

CYONICS (163)

CONTROL DATA ENGINEERING SERVICES (208)

1996

****EL BOSQUE AVE****

Pacific Bell Street Address Telephone Directory San Jose
December 1996

MOBI LEPARK WEST THREE FAMILY (285)

KAISER PAUL (288)

DAUGHERTY JOHN & STEPHANIE (289)

****EL BOSQUE DR****

Pacific Bell Street Address Telephone Directory San Jose
December 1996

HOWELL ROBT (245)

WEIR HOWARD JR (283)

****EL BOSQUE****

Pacific Bell Street Address Telephone Directory San Jose
December 1996

BURNS M K (229)

AMOR RAYMOND (231)

SMALL D (233)

LAWRENCE S (235)

MC CRAY I434 (238)

GAUNT WILLIAM G (241)

Year Uses

1996 (continued)

****BAYPOINTE PKY****

CYONICS (163)
SYSTEMS IN (163)
ULTRAPOINTIE CORP (163)
UNIPHASE CORP (163)
MICROTEK GRAPHIC ARTS BUSIGESS DIVISION (195)

Source

Pacific Bell Street Address Telephone Directory San Jose
December 1996

2000

****EL BOSQUE AVE****

KAISER PAUL 40 B (288)
DAUGHERTYJOHN (289)
DAUGHERTYJOHN 408 S (289)
DAUGHERTYSIEP (289)
DAUGHERTYSIEPHANIA 408 S (289)

HAINES & COMPANY

****EL BOSQUE DR****

XXXX (238)
XXXX (243)
HOWELLROBT (245)
XXXX (246)
XXXX (247)
XXXX (280)
XXXX (281)
XXXX (282)
WEIL RHT OWRI LR (283)
EL CAJON DR (284)
GUR ERRASJOE (284)
X SEVEN TREES BLVD (284)
XXXX (284)
LEESANG (287)
RL ANGAN MICHAEL (288)
YANEZJOS (291)
NAVIARROENRIQUE (297)
X EZIE (297)

HAINES & COMPANY

****EL BOSQUE ST****

XXXX (156)
XXXX (158)
ROPERSONFRED (164)
HUEL TA DAVID (165)
XXXX (166)
IYMARK (170)
XXXX (171)
XXXX (172)
XXXX (173)

HAINES & COMPANY

Year Uses

Source

2000 (continued)

- BREUE (174)
- BAKER JAMES (175)
- UNDERJIRN 40 B 495 8 B UNDETKELLY (176)
- XXXX (177)
- XXXX (178)
- MCLINTOCK DAVID (180)
- MCUNTOCKLORRMAI (180)
- XXXX (184)
- XXXX (191)
- XXXX (192)
- WILSONMF (228)
- BURNS MK (229)
- XXXX 00 I (230)
- AMOR RAYMOND (231)
- XXXX (232)
- SMALL D (233)
- X ELBOSQUE AV (233)
- X ELBOSQUE DR (235)
- MCCRAYI (238)
- XXXX (239)
- XXXX (240)

****BAYPOINTE PKY****

HAINES & COMPANY

- CYONICS ULTRAPOINTECORP (163)
- UNIPHASECORP (163)
- XXXX (165)
- MICROTEKGRAPHIC (195)
- OPEERY RICHARD (195)
- X BAYPOINTE PKY (195)
- XXXX (208)
- XXXX (210)
- XXXX (225)

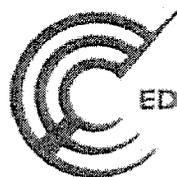
2001 Address Not Listed in Research Source

HAINES & COMPANY, INC.

APPENDIX



G



EDR® Environmental Data Resources Inc



The EDR Environmental Lien Search Report

**166 AND 210 BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA**

Monday, August 6, 2007

Project Number: L07-06794

The Standard In Environmental Risk Management Information

**440 Wheelers Farm Road
Milford, Connecticut 06460**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802**

ENVIRONMENTAL LIEN REPORT

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments

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ENVIRONMENTAL LIEN REPORT

The EDR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

166 and 210 Baypointe Parkway
San Jose, California

RESEARCH SOURCE

Source: Santa Clara County Assessor
Santa Clara County Recorder

DEED INFORMATION

Type of Instrument: Grant Deed

Title is vested in: William H. Cilker and Leila A. Cilker, Trustees for the Cilker Revocable Trust, under Trust Ggreement dated 10/09/1990

Title received from: William H. Cilker and Leila A. Cilker, husband and wife

Deed Dated: 05/18/1998
Deed Recorded: 06/03/1998
Instrument: 14217084

LEGAL DESCRIPTION

All of Lot 5, in Tract 7544, according to the map or plat thereof, as filed of record in Book 525, Pages 45 and 46, and the Certificate of Correction, recorded 08/08/1985 in Book J422, Page 1784, Santa Clara County, State of California

Assessor's Parcel Number(s): 097-07-072

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found Not Found

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL THIS DEED AND, UNLESS OTHERWISE SHOWN BELOW, MAIL TAX STATEMENT TO:

NAME: Cilker Orchards
STREET ADDRESS: 1631 Willow St., Ste. 225
CITY, STATE & ZIP CODE: San Jose, CA 95125
TITLE ORDER NO. ESCROW NO.

DOCUMENT: 14217084



#0014217084#

Titles: 1 / Pages: 3

Fees: 13.00
Taxes:
Copies: 4.00
AMT PAID: 17.00

BRENDA DAVIS
SANTA CLARA COUNTY RECORDER
Recorded at the request of
Grantor

RDE # 002
6/03/1998
4:07 PM

SPACE ABOVE THIS LINE FOR RECORDER'S USE

GRANT DEED

DOCUMENTARY TRANSFER TAX \$
[] computed on full value of property conveyed, or
[] computed on full value less liens and encumbrances remaining at time of sale.

Signature of Declarant or Agent Determining Tax Firm Name

FOR VALUABLE CONSIDERATION, receipt of which is acknowledged, I (We), William H. Cilker and Leila A. Cilker, husband and wife grant to William H. Cilker and Leila A. Cilker, Trustees for the Cilker Revocable Trust, IITA, all that real property situated in the City of San Jose Santa Clara County, California described as follows (insert legal description):

LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF BY REFERENCE

Assessor's parcel No. 097-07-045-00

Executed on May 18, 1998 at San Jose, California

STATE OF California

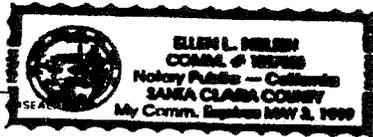
COUNTY OF Santa Clara

On 5/29/98 before me, Ellen L. Nielsen, Notary Public

personally appeared William H. Cilker and Leila A. Cilker personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary: Ellen L. Nielsen



MAIL TAX STATEMENTS TO: W.H. Cilker, 1631 Willow St., Ste 225 San Jose, CA 95125

Before you use this form, fill in all blanks, and make whatever changes are appropriate and necessary to your particular transaction. Consult a lawyer if you doubt the form's fitness for your purpose and use. Wolcott's makes no representation or warranty, express or implied, with respect to the merchantability or fitness of this form for an intended use or purpose.

WOLCOTTS FORM 778 - Rev. 3-94 (price class 3A)
GRANT DEED © 1994 WOLCOTTS FORMS, INC.



7 67775 39778 9

RIGHT THUMBPRINT (Optional)



CAPACITY CLAIMED BY SIGNER(S)

[] INDIVIDUAL(S)
[] CORPORATE OFFICER(S)

[] PARTNER(S) [] LIMITED [] GENERAL
[] ATTORNEY IN FACT
[] TRUSTEE(S)
[] GUARDIAN/CONSERVATOR
[] OTHER:

SIGNER IS REPRESENTING:
(Name of Person(s) or Entity)

Page 1

LEGAL DESCRIPTION EXHIBIT

All that certain Real Property in the City of San Jose, County of Santa Clara, State of California, described as follows:

Parcel One:

All of Lot 5, as shown upon that certain Map entitled, "Tract No. 7544", recorded March 7, 1984 in Book 525 of Maps at Pages 45 and 46, and the Certificate of Correction, recorded August 8, 1985 in Book J422, Page 1784, Official Records, Santa Clara County.

Parcel Two:

Together with and as appurtenant to Lot 5, an easement for the purpose of vehicular and pedestrian ingress and egress over the following described parcel:

Being a strip of land 13 feet in width, the Northwesterly and Westerly line of which is described as follows:

Beginning at the most Northerly corner of Lot 8 as said Lot is shown on Tract 7544 recorded in Book 525 of Maps at Pages 45 and 46, Santa Clara County Records said point being on the Westerly right of way line of Zanker Road as shown on said Tract Map.

Thence Southwesterly along the Northwesterly lot line of Lot 8 as shown on aforesaid Tract Map South 36 deg. 23' 34" West, 1220.80 feet to the most Westerly corner of said Lot 8;

Thence Southeasterly along the Southwesterly lot line of aforesaid Lot 8, South 30 deg. 31' 20" East, 194.18 feet to the terminus of said strip of land, said terminus being on the Northerly right of way line of Tasman Drive as shown on aforesaid Tract Map.

Parcel Three:

Together with and as appurtenant to Lot 5, an easement for the purpose of vehicular and pedestrian ingress and egress over the following described parcel:

Being a strip of land 13 feet in width, the Southeasterly line of which is described as follows:

Beginning on the Southeasterly corner of Lot 7 as said lot is shown on Tract 7544 recorded in Book 525 of Maps Pages 45 and 46 Santa Clara County Records, said point being on the Westerly right of way line of Zanker Road as shown on said Tract Map;

Thence Southwesterly along the Southeasterly lot line of Lot 7 as said lot is shown on aforesaid Tract Map South 36 deg. 23' 34" West, 466.10 feet to the terminus of said strip of land, said terminus being the most Southwesterly corner of Lot 7.

Parcel Four:

Together with and as appurtenant to Lot 5, an easement for the purpose of vehicular and pedestrian ingress and egress over the following described parcel:

DEEDLEGL 08/08/04da

WPK

Page 2

LEGAL DESCRIPTION EXHIBIT

Being a strip of land 13 feet in width, the Southeasterly line of which is described as follows:

Beginning at the most Easterly corner of Lot 6 as said lot is shown on Tract 7544 recorded in Book 525 of Maps pages 45 and 46 Santa Clara County Records, said point being on the Northerly lot line of Lot 8 as said lot is shown on said Tract Map;

Thence Southwesterly along the Southeasterly lot line of Lot 6 as said lot is shown on aforesaid Tract Map South 36 deg. 23' 34" West, 721.00 feet to the terminus of said strip of land, said terminus being the most Southerly corner of said Lot 6.

Parcel Five:

A nonexclusive easement for the purposes of vehicular ingress and egress, as conveyed by instrument recorded on February 23, 1990 in Book L267, Page 1861 of Official Records, and being more particularly described as follows:

Beginning at a point common to Lot 5, Lot 6, and the Southeasterly line of Baypointe Parkway, as said Lots and Parkway are shown on that certain Map of Tract No. 7544 recorded in Book 525 of Maps at Pages 45 and 46, Santa Clara County Official Records;

Thence from said Point of Beginning, along said Southeasterly line of Baypointe Parkway, North 36 deg. 23' 34" East, 16.00 feet;

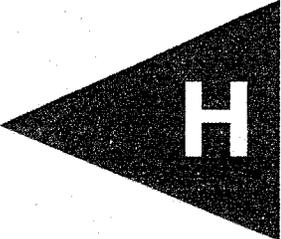
Thence leaving said Southeasterly line and along a line parallel with and 16.00 feet Northeast measured at right angles from the common line of said Lots 5 and 6, South 53 deg. 36' 26" East, 50.00 feet to said common line;

Thence along said common line the following courses;

South 36 deg. 23' 34" West, 16.00 feet and North 53 deg. 36' 26" West, 50.00 feet to the Point of Beginning of this description.

ack

APPENDIX



H

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EXPLANATION

S-5B ● APPROXIMATE LOCATION OF SOIL SAMPLE



BASE MAP SOURCE: TERRASERVER USA



SITE PLAN
BAYPOINTE PARKWAY
SAN JOSE, CALIFORNIA

PROJECT NO.: 7123.3.002.01

DATE: JANUARY 2006

DRAWN BY: SRP

CHECKED BY: JAM

FIGURE NO.

3

ORIGINAL FIGURE PRINTED IN COLOR

G:\Drafting\DRAWING2\Lwg\7123\002\ESA\7123300201-3-SitePlan-106.dwg 1-18-06 07:23:10 AM

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Micah Silvey
Engeo, Inc.-SJ
6288 San Ignacio Suite A
San Jose, Ca 95119

Lab Certificate Number: 47191

Issued: 01/11/2006

Project ID: 7123.3.002.01

Project Name: Baypointe Parkway

Certificate of Analysis - Final Report

On December 30, 2005, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Solid	Composite Metals by ICP 6010B Mercury - EPA 7471B Pesticides	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).

If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Operations Manager

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc.-SJ
6288 San Ignacio Suite A
San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-001 Sample ID: S-1-A

Matrix: Solid Sample Date: 12/30/2005

EPA 3050B	EPA 6010B								Metals
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	8.3		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh

Reviewed by: equeja

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

1/11/2006 4:08:19 PM - ECunniff

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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-003 Sample ID: Cof2 (S1A,B)

Matrix: Solid Sample Date: 12/30/2005

EPA 3050B EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Lead	24		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdimh
Reviewed by: equeja

EPA 7471B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Mercury QC Batch
Mercury	0.090		1.0	0.050	mg/Kg	1/6/2006	SHG060106	1/6/2006	SHG060106

Analyzed by: RWipfler
Reviewed by: DQueja

EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	EPA 8081A QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Beta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
delta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Aldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan I	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDE	0.039		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Dieldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDD	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan II	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDT	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Aldchide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Methoxychlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Ketone	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Toxaphene	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Chlordane (technical)	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	84.7	37 - 135

Analyzed by: Mitan
Reviewed by: lyu

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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Engeo, Inc.-SJ
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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-004 Sample ID: S-2-A

Matrix: Solid Sample Date: 12/30/2005

EPA 3050B EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Arsenic	8.8		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh

Reviewed by: equeja

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-006 Sample ID: Cof2 (S2A,B) Matrix: Solid Sample Date: 12/30/2005

EPA 3050B EPA 6010B										Metals
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Lead	28		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103	

Analyzed by: Hdinh
Reviewed by: equeja

EPA 7471B										Mercury
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Mercury	0.13		1.0	0.050	mg/Kg	1/6/2006	SHG060106	1/6/2006	SHG060106	

Analyzed by: RWipfler
Reviewed by: DQueja

EPA 8081A										EPA 8081A
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Alpha-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Beta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Heptachlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
delta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Aldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endosulfan I	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
4,4'-DDE	0.095		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Dieldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
4,4'-DDD	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endosulfan II	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
4,4'-DDT	0.025		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Methoxychlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Endrin Ketone	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Toxaphene	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	
Chlordane (technical)	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103	

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	75.0	37 - 135

Analyzed by: Mtran
Reviewed by: hyu

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-007

Sample ID: S-3-A

Matrix: Solid

Sample Date: 12/30/2005

EPA 3050B EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Arsenic	18		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh

Reviewed by: equeja

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-009 Sample ID: Cof2 (S3A,B)

Matrix: Solid Sample Date: 12/30/2005

EPA 3050B EPA 6010B	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Lead	38		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh
Reviewed by: equeja

EPA 7471B	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Mercury QC Batch
Mercury	0.070		1.0	0.050	mg/Kg	1/6/2006	SHG060106	1/6/2006	SHG060106

Analyzed by: RWipfler
Reviewed by: DQueja

EPA 8081A	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	EPA 8081A QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Beta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
delta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Aldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan I	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDE	0.14		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Dieldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDD	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan II	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDT	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Methoxychlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Ketone	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Toxaphene	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Chlordane (technical)	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103

Surrogate Surrogate Recovery Control Limits (%)
Decachlorobiphenyl 93.4 37 - 135

Analyzed by: Miran
Reviewed by: Iyu

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-010

Sample ID: S-4-A

Matrix: Solid

Sample Date: 12/30/2005

EPA 3050B EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Arsenic	5.8		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh

Reviewed by: equeja

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-012 Sample ID: Cof2 (S4A,B) Matrix: Solid Sample Date: 12/30/2005

EPA 3050B	EPA 6010B									Metals
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Lead	73		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103	

Analyzed by: Hdinb
Reviewed by: equeja

EPA 7471B									Mercury
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	0.20		1.0	0.050	mg/Kg	1/6/2006	SHG060106	1/6/2006	SHG060106

Analyzed by: RWipfler
Reviewed by: DQueja

EPA 8081A									EPA 8081A
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Beta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
delta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Aldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan I	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDE	0.22		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Dieldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDD	0.027		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan II	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDT	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Methoxychlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Ketone	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Toxaphene	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Chlordane (technical)	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	92.1	37 - 135

Analyzed by: Mtran
Reviewed by: lya

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

1/11/2006 4:08:20 PM - ECunniffe

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engco, Inc.-SJ
6288 San Ignacio Suite A
San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-013

Sample ID: S-5-A

Matrix: Solid

Sample Date: 12/30/2005

EPA 3050B EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	Metals QC Batch
Arsenic	7.8		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103

Analyzed by: Hdinh

Reviewed by: equcja

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

1/11/2006 4:08:20 PM - ECunniff

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc.-SJ
6288 San Ignacio Suite A
San Jose, Ca 95119
Attn: Micah Silvey

Samples Received: 12/30/2005
Project ID: 7123.3.002.01

Project Name: Baypointe Parkway
Project Location:

Certificate of Analysis - Data Report

Sample Collected by: Client

Lab #: 47191-015 Sample ID: Cof2 (S5A,B) Matrix: Solid Sample Date: 12/30/2005

EPA 3050B	EPA 6010B									Metals
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Lead	8.5		1.0	1.0	mg/Kg	1/3/2006	SM060103	1/4/2006	SM060103	

Analyzed by: Hdinh
Reviewed by: equeja

EPA 7471B									Mercury
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	0.14		1.0	0.050	mg/Kg	1/6/2006	SHG060106	1/6/2006	SHG060106

Analyzed by: RWipler
Reviewed by: DQueja

EPA 8081A									EPA 8081A
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Beta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
delta-BHC	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Aldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan I	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDE	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Dieldrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDD	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan II	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
4,4'-DDT	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Methoxychlor	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Endrin Ketone	ND		1.0	0.025	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Toxaphene	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103
Chlordane (technical)	ND		1.0	0.10	mg/Kg	1/3/2006	PES060103	1/4/2006	PES060103

Surrogate Surrogate Recovery Control Limits (%)
Decachlorobiphenyl 94.8 37 - 135

Analyzed by: Miran
Reviewed by: Iyu

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

1/11/2006 4:08:20 PM - ECumiff

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 6010B - Metals

QC/Prep Batch ID: WM060103

Reviewed by: equeja - 01/03/06

QC/Prep Date: 1/3/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<0.010	0.50	0.527	mg/L	105	75 - 125
Arsenic	<0.010	0.50	0.503	mg/L	101	75 - 125
Barium	<0.0050	0.50	0.509	mg/L	102	75 - 125
Beryllium	<0.0050	0.50	0.501	mg/L	100	75 - 125
Cadmium	<0.0020	0.50	0.479	mg/L	95.8	75 - 125
Chromium	<0.0050	0.50	0.501	mg/L	100	75 - 125
Cobalt	<0.0050	0.50	0.512	mg/L	102	75 - 125
Copper	<0.0050	0.50	0.508	mg/L	102	75 - 125
Lead	<0.0050	0.50	0.508	mg/L	102	75 - 125
Manganese	<0.0020	0.50	0.512	mg/L	102	75 - 125
Molybdenum	<0.0050	0.50	0.512	mg/L	102	75 - 125
Nickel	<0.0050	0.50	0.501	mg/L	100	75 - 125
Selenium	<0.020	0.50	0.480	mg/L	96.0	75 - 125
Silver	<0.0050	0.50	0.514	mg/L	103	75 - 125
Thallium	<0.020	0.50	0.473	mg/L	94.6	75 - 125
Tin	<0.050	1.0	0.989	mg/L	98.9	75 - 125
Titanium	<0.0020	0.50	0.521	mg/L	104	75 - 125
Vanadium	<0.0050	0.50	0.507	mg/L	101	75 - 125
Zinc	<0.010	0.50	0.498	mg/L	99.6	75 - 125

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<0.010	0.50	0.521	mg/L	104	1.1	25.0	75 - 125
Arsenic	<0.010	0.50	0.497	mg/L	99.4	1.2	25.0	75 - 125
Barium	<0.0050	0.50	0.500	mg/L	100	1.8	25.0	75 - 125
Beryllium	<0.0050	0.50	0.494	mg/L	98.8	1.4	25.0	75 - 125
Cadmium	<0.0020	0.50	0.475	mg/L	95.0	0.84	25.0	75 - 125
Chromium	<0.0050	0.50	0.496	mg/L	99.2	1.0	25.0	75 - 125
Cobalt	<0.0050	0.50	0.508	mg/L	102	0.78	25.0	75 - 125
Copper	<0.0050	0.50	0.502	mg/L	100	1.2	25.0	75 - 125
Lead	<0.0050	0.50	0.502	mg/L	100	1.2	25.0	75 - 125
Manganese	<0.0020	0.50	0.508	mg/L	102	0.78	25.0	75 - 125
Molybdenum	<0.0050	0.50	0.504	mg/L	101	1.6	25.0	75 - 125
Nickel	<0.0050	0.50	0.493	mg/L	98.6	1.6	25.0	75 - 125
Selenium	<0.020	0.50	0.474	mg/L	94.8	1.3	25.0	75 - 125
Silver	<0.0050	0.50	0.508	mg/L	102	1.2	25.0	75 - 125
Thallium	<0.020	0.50	0.465	mg/L	93.0	1.7	25.0	75 - 125
Tin	<0.050	1.0	0.980	mg/L	98.0	0.91	25.0	75 - 125
Titanium	<0.0020	0.50	0.513	mg/L	103	1.5	25.0	75 - 125
Vanadium	<0.0050	0.50	0.502	mg/L	100	0.99	25.0	75 - 125
Zinc	<0.010	0.50	0.493	mg/L	98.6	1.0	25.0	75 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 6010B - Metals

QC/Prep Batch ID: WM060103

Reviewed by: equeja - 01/05/06

QC/Prep Date: 1/3/2006

MS Sample Spiked: 47193-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Cadmium	ND	0.50	0.468	mg/L	1/3/2006	93.6	75 - 125
Chromium	ND	0.50	0.489	mg/L	1/3/2006	97.8	75 - 125
Copper	0.0140	0.50	0.513	mg/L	1/3/2006	99.8	75 - 125
Lead	ND	0.50	0.499	mg/L	1/3/2006	99.8	75 - 125
Nickel	ND	0.50	0.490	mg/L	1/3/2006	98.0	75 - 125
Zinc	0.0140	0.50	0.515	mg/L	1/3/2006	100	75 - 125

MSD Sample Spiked: 47193-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Cadmium	ND	0.50	0.454	mg/L	1/3/2006	90.8	3.0	25.0	75 - 125
Chromium	ND	0.50	0.484	mg/L	1/3/2006	96.8	1.0	25.0	75 - 125
Copper	0.0140	0.50	0.510	mg/L	1/3/2006	99.2	0.60	25.0	75 - 125
Lead	ND	0.50	0.489	mg/L	1/3/2006	97.8	2.0	25.0	75 - 125
Nickel	ND	0.50	0.482	mg/L	1/3/2006	96.4	1.6	25.0	75 - 125
Zinc	0.0140	0.50	0.499	mg/L	1/3/2006	97.0	3.2	25.0	75 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0204

Laboratory Control Sample / Duplicate - Solid - EPA 7471B - Mercury

QC/Prep Batch ID: SHG060106

Reviewed by: DQueja - 01/09/06

QC/Prep Date: 1/6/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Mercury	<0.050	0.20	0.200	mg/Kg	100	75 - 125

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Mercury	<0.050	0.20	0.210	mg/Kg	105	4.9	30.0	75 - 125

Matrix Spike / Matrix Spike Duplicate - Solid - EPA 7471B - Mercury

QC/Prep Batch ID: SHG060106

Reviewed by: DQueja - 01/09/06

QC/Prep Date: 1/6/2006

MS Sample Spiked: 47191-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Mercury	0.0895	0.20	0.285	mg/Kg	1/6/2006	97.7	75 - 125

MSD Sample Spiked: 47191-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Mercury	0.0895	0.20	0.298	mg/Kg	1/6/2006	104	4.5	30.0	75 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Solid - EPA 8081A - EPA 8081A

QC/Prep Batch ID: PES060103

Validated by: Iyu - 01/06/06

QC/Prep Date: 1/3/2006

Parameter	Result	DF	PQLR	Units
4,4'-DDD	ND	1	0.025	mg/Kg
4,4'-DDE	ND	1	0.025	mg/Kg
4,4'-DDT	ND	1	0.025	mg/Kg
Aldrin	ND	1	0.025	mg/Kg
Alpha-BHC	ND	1	0.025	mg/Kg
Beta-BHC	ND	1	0.025	mg/Kg
Chlordane (technical)	ND	1	0.10	mg/Kg
delta-BHC	ND	1	0.025	mg/Kg
Dieldrin	ND	1	0.025	mg/Kg
Endosulfan I	ND	1	0.025	mg/Kg
Endosulfan II	ND	1	0.025	mg/Kg
Endosulfan Sulfate	ND	1	0.025	mg/Kg
Endrin	ND	1	0.025	mg/Kg
Endrin Aldehyde	ND	1	0.025	mg/Kg
Endrin Ketone	ND	1	0.025	mg/Kg
Gamma-BHC (Lindane)	ND	1	0.025	mg/Kg
Heptachlor	ND	1	0.025	mg/Kg
Heptachlor Epoxide	ND	1	0.025	mg/Kg
Methoxychlor	ND	1	0.025	mg/Kg
Toxaphene	ND	1	0.10	mg/Kg

Surrogate for Blank	% Recovery	Control Limits
Decachlorobiphenyl	73.5	37 - 135

Laboratory Control Sample / Duplicate - Solid - EPA 8081A - EPA 8081A

QC/Prep Batch ID: PES060103

Reviewed by: Iyu - 01/06/06

QC/Prep Date: 1/3/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Aldrin	<0.050	0.10	0.0967	mg/Kg	96.7	40 - 135
Dieldrin	<0.050	0.10	0.0964	mg/Kg	96.4	40 - 135
Endrin	<0.050	0.10	0.107	mg/Kg	107	40 - 135
Gamma-BHC (Lindane)	<0.050	0.10	0.104	mg/Kg	104	40 - 135
Heptachlor	<0.050	0.10	0.106	mg/Kg	106	40 - 135

Surrogate	% Recovery	Control Limits
Decachlorobiphenyl	106.0	37 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Aldrin	<0.050	0.10	0.0796	mg/Kg	79.6	19	30.0	40 - 135
Dieldrin	<0.050	0.10	0.0800	mg/Kg	80.0	19	30.0	40 - 135
Endrin	<0.050	0.10	0.0889	mg/Kg	88.9	18	30.0	40 - 135
Gamma-BHC (Lindane)	<0.050	0.10	0.0860	mg/Kg	86.0	19	30.0	40 - 135
Heptachlor	<0.050	0.10	0.0871	mg/Kg	87.1	19	30.0	40 - 135

Surrogate	% Recovery	Control Limits
Decachlorobiphenyl	84.9	37 - 135

47191

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 7123.3.002.01
 PROJECT NAME: Beypointe Parkway
 SAMPLED BY: (SIGNATURE/PRINT) Dana Bowen / Sara Bauer
 PROJECT MANAGER: Micah Silvey
 ROUTING: E-MAIL msilvey@engco.com Hard Copy Micah Silvey

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Organochlorine Pesticides (EPA 8081)				Lead and Mercury				REMARKS REQUIRED DETECTION LIMITS
							✓	✓	✓	✓	✓	✓	✓	✓	
-001	12/30/05	9:00	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓	5-DAY TAT	
-002		9:05	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-004		9:05	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-005		9:05	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-007		10:49	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-008		10:23	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-010		9:35	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-011		9:57	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-013		9:27	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		
-014	12/30/05	8:47	soil	1	2X6 steel liner	ice	✓	✓	✓	✓	✓	✓	✓		

RELINQUISHED BY: (SIGNATURE) Dana Bowen DATE/TIME 12/30/05 12:55 RECEIVED BY: (SIGNATURE) Diane Thurman DATE/TIME 12/30/05 12:55

RELINQUISHED BY: (SIGNATURE) _____ DATE/TIME _____ RECEIVED BY: (SIGNATURE) _____ DATE/TIME _____

REMARKS: Composite samples S-1A and S-1B and label as S-1, etc. Analyse Arsenic discretely in A samples only.

RECEIVED FOR LABORATORY BY: (SIGNATURE) _____ DATE/TIME _____

6288 SAN IGNACIO AVENUE, SUITE A
 SAN JOSE, CALIFORNIA 95119
 (408) 574-4900 FAX (408) 574-4902
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February 1, 2008

Mr. Peter Solar
NORTHERN CALIFORNIA I 2005, L.P.
1810 Gateway Drive, Suite 240
San Mateo, California 94404

Re: Vicinity Hazardous Materials Users Survey, Proposed 166 Baypointe Parkway Redevelopment Project,
San Jose, California

Dear Mr. Solar:

This vicinity hazardous materials users survey was performed for Northern California I 2005, L.P., a Texas limited partnership, who is understood to be considering redevelopment of the property located at 166 Baypointe Parkway in San Jose, California.

Purpose

The purpose of this study was to identify facilities in the vicinity of the project site having observed or reported hazardous substance usage, and to evaluate the significance of the identified hazardous substances to the proposed development if an accidental release were to occur. This letter was prepared in accordance with our agreements dated October 24, 2007, October 29, 2007, and December 13, 2007.

Scope of Work

The scope of work performed for this study was the following.

- ◆ Performed a visual survey of the site vicinity to identify readily observable names and addresses of businesses, railroad tracks, and hazardous materials/waste pipelines located within a ½-mile radius of the project site (adjacent to site for pipelines), and appearing to have the potential to use, handle, and/or store significant quantities of toxic or hazardous materials and/or wastes (hazardous substances).
- ◆ Reviewed the list of registered hazardous gas facilities within the City of San Jose provided by the San Jose Fire Department (SJFD) and the list of California Accidental Release Program (CalARP) facilities within Santa Clara County provided by the Santa Clara County Environmental Health Department (SCCEHD), to identify which are located within a 1-mile radius of the project site.
- ◆ Reviewed available hazardous materials files for the facilities identified through the first two tasks at the SJFD and SCCEHD, as appropriate.
- ◆ Obtained and reviewed a regulatory agency database report to identify government agency-recorded facilities having significant hazardous substance usage or having significant reported air emissions or hazardous substance releases.
- ◆ Requested local subsurface pipeline location information from Chevron and Kinder-Morgan.
- ◆ Reviewed available screening level risk evaluation data performed previously for two vicinity projects, made available by the San Jose Planning Department (SJPD).
- ◆ Retained Risicare, LLC to perform screening level risk evaluation for facilities identified as potentially significant, for which risk evaluation data had not previously been prepared.

BELINDA P. BLACKIE, P.E., R.E.A.
1355 POE LANE
SAN JOSE, CA 95130
PHONE/FAX: (408) 260-8627

Observed Vicinity Hazardous Materials Facilities

On November 1, 2007, a visual survey of the businesses within approximately 1/2-mile of the project site was performed, in an attempt to identify those currently appearing likely to use, handle, and/or store significant quantities of hazardous substances. A summary of the businesses identified is presented in the following table.

OBSERVED BUSINESSES POTENTIALLY HAVING SIGNIFICANT QUANTITIES OF HAZARDOUS SUBSTANCES

Facility Name	Facility Address	Observations
U-Tech	163 Baypointe Parkway	High-tech/office building; hazardous materials placarding indicating health hazard of 2, flammability hazard of 2, reactivity hazard of 1, and special hazard of corrosive material
ITI	210 and 212 Baypointe Parkway	High-tech/office building
Cypress Semiconductor, Building 6	198 Champion Court	High-tech/office building
Carefree Trailer Park	100 El Bosque	Large mobile home residential park
Analog Devices	3550 North First Street	High-tech/office building
Polycom	3553 North First Street	High-tech/office building; hazardous materials placarding indicating health hazard of 3
University of Phoenix Nuvation Immigration Law Group LLP ARC WICHORUS	3590 North First Street	Multi-tenant office building
Maxim	3725 North First Street	High-tech/office building; multiple hazardous materials placards indicating health, flammability, and reactivity hazards of up to 4, with special hazards of acids, water incompatibles, and cryogenics; liquid hydrogen also indicated as present, as well as observation of major equipment (likely waste water treatment system included) and aboveground storage tanks (ASTs) at rear of building
Nicholson Plaza	3730 North First Street	Commercial/retail center
RAE Systems Nano Lab	3775 North First Street	High-tech/office building; hazardous materials placard indicating health hazard of 3, flammability hazard of 4, reactivity hazard of 3, and special hazards of corrosives and oxidizers
SVTC	3833 North First Street	High-tech/office building
Presto Engineering SVTC	3901 North First Street	High-tech/office building; multiple hazardous materials placards indicating health and flammability hazards of up to 4, reactivity hazards of up to 3, and special hazards of cryogenics and oxidizers; fuel ASTs and associated pumps and a large liquid hydrogen AST also observed in parking lot for building
MVC	3910 North First Street	High-tech/office building
LTX	3930 North First Street	High-tech/office building; hazardous materials placarding indicating health hazard of 3, flammability hazard of 4, and reactivity hazard of 1
Novellus	3940 North First Street	High-tech/office building
Redback Networks	300 Holger Way	High-tech/office building; hazardous materials placarding indicating health hazard of 2 and flammability hazard of 2 on diesel generator enclosure

(continued)

**OBSERVED BUSINESSES WITH POTENTIALLY SIGNIFICANT QUANTITIES OF HAZARDOUS SUBSTANCES
(CONTINUED)**

Facility Name	Facility Address	Observations
Force 10 Networks	350 Holger Way	High-tech/office building; hazardous materials placarding indicating health hazard of 2 and flammability hazard of 2 on diesel generator enclosure
Renasas	450 Holger Way	High-tech/office building
Yamaichi Electronics	475 Holger Way	High-tech/office building
Perkin-Elmer	75 Nicholson Lane	One suite of high-tech/office building
Tri-Power Group	85 Nicholson Lane	One suite of high-tech/office building
inTest Silicon Valley	101 Nicholson Lane	One suite of high-tech/office building
Genesis Vacuum Tech	115 Nicholson Lane	One suite of high-tech/office building
Qualitek	125 Nicholson Lane	High-tech/office building
KLA Tencor, Building H	51 Rio Robles	High-tech/office building
Cisco Systems, Building N	125 Rio Robles	High-tech/office building
KLA Tencor, Building J	145 Rio Robles	High-tech/office building
JDSU	80 Rose Orchard Way	High-tech/office building; hazardous materials placarding indicating health hazard of 4, flammability hazard of 4, and reactivity hazard of 3
U-Systems Log Logic	100 and 110 Rose Orchard Way	High-tech/office building
Harris-Stratex OMNI MTI Lab*	120 and 130 Rose Orchard Way	High-tech/office building; hazardous materials placarding indicating health hazard of up to 3 and flammability hazard of up to 2; probable diesel AST and wastewater treatment system observed
Palmer West College of Chiropractic	90 East Tasman Drive	Office building housing a school
Sirenza Microdevices	105 East Tasman Drive	High-tech/office building; diesel generator enclosure observed adjacent to building
Interwoven	160 East Tasman Drive	High-tech/office building
Netscout	178 East Tasman Drive	High-tech/office building hazardous materials placarding indicating health hazard of 2 and flammability hazard of 2 on diesel generator enclosure
Cisco Systems, Building 3	225 East Tasman Drive	High-tech/office building
Cisco Systems, Building 10	260 East Tasman Drive	High-tech/office building
Cisco Systems, Building 4	275 East Tasman Drive	High-tech/office building
Cisco Systems	300 East Tasman Drive	High-tech/office building
Cisco Systems, Building O	10 West Tasman Drive	High-tech/office building
Samsung Electronics	77 West Tasman Drive 3655 North First Street	High-tech/office building
Cisco Systems, Building M	80 West Tasman Drive	High-tech/office building
Samsung Electronics	85 West Tasman Drive	High-tech/office building
Samsung Electronics	99 West Tasman Drive	High-tech/office building
Cisco Systems, Building P	125 West Tasman Drive	High-tech/office building
Agnews Developmental Center	3500 Zanker Road	Housing and facilities associated with facility
Cisco Systems, Building 8	3750 Zanker Road	High-tech/office building
Cisco Systems, Building 1	3800 Zanker Road	High-tech/office building
Cisco Systems, Building 2	3850 Zanker Road	High-tech/office building
VTA Cerrone Division	3990 Zanker Road	Large bus maintenance and administrative facility; hazardous materials placarding indicating health and reactivity hazards of 2 and flammability hazard of 4, with special hazard for oxidizing compounds

* Business name not observed at time of vicinity reconnaissance

Vicinity Railroad Tracks

Railroad spurs or main lines were not observed within 1/2 mile of the project site at the time of this study, with the exception of VTA Light Rail tracks on North First Street and Tasman Drive.

Adjacent Hazardous Materials/Waste Pipelines

To obtain information on the presence of hazardous waste pipelines adjacent to the project site, Mr. Andrew Dyer of the SJFD was interviewed. Mr. Dyer was unaware of hazardous waste pipelines within the City of San Jose. Mr. Dyer also was unaware of any other hazardous materials pipelines which would transverse property lines within the City of San Jose, not including natural gas lines.

To obtain location information for Kinder Morgan petroleum pipelines that reportedly transport gasoline, jet fuel, and diesel from Concord to the San Jose terminal (located at 2150 Kruse Drive), Mr. Chuck Wagner of Kinder Morgan was contacted. Mr. Wagner indicated that the Kinder Morgan pipeline nearest the site was line LS-16, located approximately 2.2 miles east of the site. To obtain location information for the Chevron Bay Area Pipeline (another regional petroleum hydrocarbon pipeline), Mr. Cary Wages of Chevron was contacted. Mr. Wages indicated that the Chevron pipeline nearest the site was approximately 2.4 miles east of the Site.

Registered Vicinity Hazardous Gas Facilities

A list of registered hazardous gas facilities located within the City of San Jose, current as of May 2007, was obtained from Mr. Mike Murtiff of the SJFD. Based on the recorded addresses of the facilities, seven are located within 1 mile of the site, including four located within the 1/2-mile search radius for the visual survey. Reported hazardous gas facilities KLA Tencor (145 Rio Robles), JDS Uniphase (80 Rose Orchard Parkway), Maxim Integrated Products (3725 North First Street), and STS California SVCS, LLC (3901 North First Street) were located within the 1/2 mile search radius for this project; reported hazardous gas facilities Supertex, Inc. (71 Vista Montana), Moitozo Brothers, Inc. (175 River Oaks Parkway), and Novellus Systems, Inc. (4000 North First Street) were located outside the 1/2-mile search radius, but within 1 mile of the site. Information on the toxic gas inventories for the facilities located within the 1/2-mile search radius are summarized in the SJFD file review table in the following section; information on the toxic gas inventories for the facilities beyond the 1/2-mile search radius follows. Key documents are included in an appendix to this letter.

**HAZARDOUS GAS FACILITY INFORMATION
(FACILITIES BETWEEN 1/2- AND 1-MILE FROM SITE)**

Document Date	Document Type	Information Obtained
<i>Supertex, Inc – 71 Vista Montana</i>		
5/21/01	Building Occupancy Classification Inventory Form	Compressed gases reported in inventory included 4.67 cubic feet each of arsine, phosphine, boron trifluoride, argon, and nitrogen.
11/20/01	Memo	Plan check memo indicated above gases reportedly present within Varian Viision 200 Ion Implantation System equipment.
<i>Moitozo Brothers, Inc. – 175 River Oaks Parkway</i>		
10/11/90	Hazardous Materials Management Plan (HMMP)	Hazardous materials inventory statement included 300 gallons anhydrous ammonia among other materials listed.
6/29/91	Letter	Letter indicated that 1,200 pounds of ammonia were present at the facility, but that alternative technologies were being researched for the cold storage equipment.
3/10/03	Letter	Letter from A&A Refrigeration Contractors, Inc. stating that all ammonia gas had been removed from the cooling system at the facility and had been replaced with dry nitrogen.
<i>Novellus Systems, Inc. – 4000 North First Street</i>		
2/10/04	HMBP Certification Form	Form stated that 2/28/03 HMBP was complete and accurate.

(continued)

**HAZARDOUS GAS FACILITY INFORMATION
(FACILITIES BETWEEN 1/2- AND 1-MILE FROM SITE)
(CONTINUED)**

Document Date	Document Type	Information Obtained
2/03	HMBP	Compressed gases reported in inventory included 22.6 cubic feet phosphine, 20,038 cubic feet nitrogen, 2545 cubic feet helium, 5,645.5 cubic feet carbon dioxide, 18,144 cubic feet argon, 0.66 cubic feet TBTDET, 10 cubic feet liquid nitrogen, 674 cubic feet methane in argon, 1 cubic foot hydrogen peroxide, 1 cubic foot hydrocarbon gas, 270 cubic feet diborane in argon, 150 cubic feet phosphine in nitrogen, 201.9 cubic feet tungsten hexafluoride, 369 cubic feet silicon tetrafluoride, 280 cubic feet diborane in nitrogen, 2,299.92 cubic feet assorted halocarbon gases, 180 cubic feet phosphine in silane, 50 cubic feet hydrogen in argon, 1194.6 cubic feet nitrogen trifluoride, 2,000 cubic feet nitrous oxide, 1,645 cubic feet helium in nitrogen, 363 cubic feet carbon monoxide, 6,209 cubic feet hydrogen in nitrogen, 408.32 cubic feet ethane, 62 cubic feet ethylene, 5 cubic feet methyl fluoride, 358 cubic feet methane, 706 cubic feet acetylene, 658.9 cubic feet silane, and 512 cubic feet hydrogen.
6/6/01	Memo	A non-gas leak of TMCTS (a liquid) was described. An enclosure reportedly contained the spill.

Registered Vicinity CalARP Facilities

A list of CalARP facilities located within Santa Clara County, current as of August 2006, was obtained from the SCCEHD. Based on the recorded addresses of the registered facilities, two appeared to be located within 1 mile of the project site: Calpine Los Esteros (1515 Alviso-Milpitas Road) and OLS Energy – Agnews (3800 Cisco Way). According to Mr. Ruben Williams of the SCCEHD, recently implemented policy prohibits release of risk assessment modeling data from submitted risk management plans (RMPs) for CalARP facilities, including the radius of impact for toxic gases of concern, by the SCCEHD to the public. Information on toxic gases at the two CalARP facilities, which the SCCEHD was able to provide, is summarized below.

The Calpine Los Esteros facility was reported as a Program 1 facility within CalARP. According to Mr. Williams, designation as a Program 1 facility indicates risk assessment modeling has determined that a catastrophic release of the regulated chemical at the facility (9,785 pounds of 19% aqueous ammonia) would not leave the facility boundaries.

The OLS Energy – Agnews facility was reported as a Program 3 facility within CalARP. Mr. Williams stated that the EPA’s RMP Comp computer model (available on-line) can be used to calculate the theoretical radius of impact for the regulated chemical (77,000 pounds anhydrous ammonia). RMP Comp modeled a theoretical radius of impact of 1.5 miles for a catastrophic release.

Other registered CalARP facilities, most notably the San Jose/Santa Clara Water Pollution Control Plant (WPCP) (700 Los Esteros Road, San Jose), are located in the vicinity of the Site but are outside the 1-mile radius searched, based on the recorded addresses. A discussion of the potential risk to the site from the WPCP facility is presented later in this letter.

Review of Available SJFD Files

To evaluate the potential significance of the businesses identified during the visual survey discussed above, readily available information on hazardous materials usage and storage for the observed businesses was reviewed on the public access computer system at the SJFD in City Hall and/or provided by SJFD staff. For the purposes of this study, primarily data on the chemical/waste inventories provided in the most recent HMBPs and hazardous materials inspection reports was reviewed. Some of the identified facilities had no hazardous materials files on record at the SJFD and, if evidence of the presence of hazardous substances was not identified through other sources, these facilities were discounted as posing a potentially significant hazardous materials threat to the proposed development. The SJFD information available for the facilities is summarized in the table on the following pages; key documents are included in an appendix to this letter.

AVAILABLE SJFD FILE REVIEW INFORMATION

Document Date	Business Name	Document Type	Information Obtained
<i>163 Baypointe Parkway</i>			
3/8/07	U-Tech Media USA	Closure Application for Aboveground Hazardous Materials Storage Facilities	Document stated that U-Tech Media USA was closing their facility and relocating to Ontario, California, with an anticipated closure date of June 1, 2007. All hazardous materials and wastes were to be removed from the Site. Closure plan was approved by SJFD on 3/14/07. Hazardous materials to be removed reportedly included three units of 110 gallons each nickel sulfamate, 1 unit of nickel sulfamate rinse water (no quantity given), one 500-gallon tank sodium hydroxide, one 500-gallon sulfuric acid tank, and one processing line with sodium hydroxide and solvents (no quantities given).
4/16/07	U-Tech Media USA	Aboveground Closure Plan	Closure plan indicated as approved by SJFD on 4/16/07.
11/16/07	U-Tech Media USA	Initiation of Aboveground Closure	Closure activities indicated as commencing on 11/16/07, but facility status remained "open" with a note indicating "partial pass".
<i>3550 North First Street</i>			
12/14/00	Analog Devices	ROI	No permits listed. Facility reportedly a new office building with no violations noted.
2/28/05	Analog Devices	HMBP	Hazardous materials reported in inventory included thirty gallons isopropyl alcohol (IPA), 40 gallons copier toner, 2 pounds powdered bleach, up to 2 pounds/20 gallons each assorted cleaners, 1 gallon E-6100 Non Slump, 100 cubic feet Genetron AZ-50 (trifluoroethane), 150 cubic feet Genetron R-22 (chlorodifluoromethane), up to 1 gallon/1 pound each assorted adhesives/contact cements, 1 gallon stripping paint, 5 gallons acetone, 2 gallons ethylene glycol, 5 gallons assorted Fluorinert compounds, 1 gallon Galden HT 230, 1 gallon Halocarbon oil, 500 gallons diesel, and 2,000 gallons liquid nitrogen. Hazardous wastes reported included 1 pound expired batteries, 10 pounds fluorescent light bulbs, 10 gallons IPA and toners, and 5 pounds solvent gloves and wipes.
<i>3725 North First Street</i>			
5/8/02	Maxim Integrated Products	ROI	Facility reportedly had compressed gases, combustible materials storage, flammable/combustible liquids, hazardous materials, and hot works permits. No hazardous materials violations noted.
4/9/04	Maxim Integrated Products	Post-Incident Report	Silane gas reportedly was released into the silane dispensing area, and burning gas activated fire sprinklers.
9/22/04	Maxim Integrated Products	HMBP	Hazardous gases reported in inventory included 3,600 cubic feet oxygen/helium, 211 cubic feet fluorine/krypton/neon, 354 cubic feet phosphine/helium, 211.89 cubic feet krypton/neon, 209 cubic feet nitrogen/helium, 3,000 gallons oxygen, 3,150 gallons diesel, 920 cubic feet hydrogen in nitrogen, 47.522 gallons liquid nitrogen, 487.6 cubic feet diborane in nitrogen, 259 cubic feet phosphine in nitrogen, 2,328 cubic feet helium, 60 cubic feet nitrogen, 100 pounds ammonia, 1.6 cubic feet phosphine/hydrogen, 155 cubic feet argon, 11.6 pounds arsine, 188 cubic feet carbon monoxide, 90 pounds chlorine, 495 pounds dichlorosilane, 90 pounds nitrogen trifluoride, 480 pounds nitrous oxide, 6.8796 pounds phosphine, 22.5 pounds silane, 270.6 pounds assorted halocarbon gases, 260 pounds sulfur hexafluoride, 75 pounds tungsten hexafluoride, 1,500 gallons argon, and 9,200 gallons hydrogen. Other non-gas hazardous materials reported included 48 gallons hydrochloric acid, 1,914 gallons assorted concentrations of hydrochloric acid, 36 gallons acetone, 65 gallons ammonium hydroxide, 90 pounds boron trichloride, 3.7 pounds boron trifluoride, 46.2 pounds trans-1,2-DCE, 495 gallons developer, 3.13 gallons hexamethyl disilazane, 152 gallons hydrofluoric acid, 100 pounds hydrogen bromide, 600 pounds hydrogen chloride, 209 gallons hydrogen peroxide, 275 gallons IMD slurry, 140 gallons isopropyl alcohol, 3 gallons NFC 540 Overcoat, 30 gallons nitric acid, 8.268 pounds nitric oxide, 162 gallons ammonium fluoride and hydrofluoric acid, 6 gallons hexamethyl disilazane, 12 gallons assorted AZ Aquarar Coating, 25 tons calcium

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**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
			hydroxide, 16 gallons EKC 270, 48 gallons NOW Etch 1, 4.4 pounds octafluorocyclopentene, 12 gallons palladium etch, 36 gallons phosphoric acid, 14.8839 pounds phosphoryl trichloride, 50 pounds potassium hydroxide, 176 gallons diethyleneglycol-n-butyl ether, 165 gallons RER600EBR, 58 gallons assorted resist compounds, 7,500 pounds sodium metabisulfite, 112 gallons assorted ST compounds, 5 pounds pump oil, 50 pounds mercury, 1,600 pounds batteries, 25 gallons ethylene glycol, 32 gallons freckle etch (combination of acids), 3,589 pounds sulfuric acid, 52 gallons ammonium fluoride/phosphoric acid, 22.05 pounds triethylborate, 15 gallons tetraethylorthosilicate, 4 gallons 1,2-propanediol, 11.025 pounds triethyl phosphate, and 25 gallons W slurry. Hazardous wastes reportedly included 800 pounds lab debris contaminated with acid, acetone, or arsenic, and 1,400 gallons solvent waste.
<i>3730 North First Street</i>			
1/6/05	Sprint	HMWRF	Facility reportedly had 32 gallons lead-acid battery electrolyte present in 2-gallon quantities.
<i>3775 North First Street</i>			
4/28/06	RAE Systems	ROI	Reported violations included need to provide hazardous materials emergency training, label compressed gases, segregate non-combustible storage from flammable/combustible liquids and separate oxidizers and flammables, secure torch cart cylinders, label empty containers, complete aboveground hazardous materials inspection form, and update HMBP.
7/6/06	RAE Systems, Inc.	HMBP	Hazardous materials reported in inventory included 9 gallons methanol, 1,219 cubic feet miscellaneous calibration gases (including chlorine, hydrogen cyanide, ammonia, phosphine, benzene), 1 gallon Loctite, 10 pounds solder wire, 3 gallons flux remover, 3,827 cubic feet miscellaneous non-flammable gases, 1,200 cubic feet nitrogen, 792 cubic feet oxygen, 234 cubic feet helium, 845 cubic feet methane, 558 cubic feet miscellaneous flammable gases (hydrogen, methane, propane), 530 cubic feet miscellaneous non-toxic gases (carbon dioxide, oxygen, helium, nitrogen, argon, xenon), 0.000001 pounds cesium-137, 250 cubic feet oxygen, 288 cubic feet carbon monoxide/air, 562 cubic feet argon, 466 cubic feet nitrogen/oxygen, 244 cubic feet nitrogen/helium, 0.001 gallons amyl acetate, 0.03 gallons benzyl formate, 0.008 gallons 1,3-butadiene diepoxide, 0.026 gallons butyl alcohol, 1 gallon methyl nonafluorobutyl ether, 0.011 pounds palladium, 0.022 pounds sodium acetate, 352 cubic feet miscellaneous gases with nitrogen balance gas, 0.01 cubic feet and 18 gallons assorted paints, 1 pound grease, up to 1.1 pounds and 0.30 gallons each of numerous assorted laboratory chemicals and reagents, 219 cubic feet hydrogen torch gas, 155 cubic feet oxygen torch gas, 14 gallons methanol/acetone, and 19.2 gallons acid battery electrolyte. Reported hazardous wastes included 7 gallons cleaning solvents.
12/11/06	RAE Systems	HMBP Certification Form	Reported revisions to 7/6/06 HMBP included 0.44 pounds sodium hydroxide, 0.22 pounds potassium borohydride, and 0.0013 gallons 2,3-butanedione 99%.
<i>3901 North First Street</i>			
8/9/07	Semiconductor Technology Services, LLC/Silicon Valley Technology	Fire Prevention Inspection	Inspection remarks indicate present of propene, phosphine, and amorphous carbon.
<i>3910 North First Street</i>			
1/13/97	Mosel Vitelic Corporation**	ROI	No hazardous materials permits indicated and no violations noted.

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**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>3930 North First Street</i>			
8/29/07	LTX Corporation	Letter	Letter stated that degreaser and solvent had been removed from facility.
9/19/07	LTX	Closure Application for Aboveground Hazardous Materials Storage Facilities	Application for full facility closure due to business relocation. A vapor degreaser had been cleaned out, excess solvent had been moved into a waste drum, and the degreaser was turned off. When the application was approved, the waste drums and all excess solvent were to be disposed. Application noted as approved for compliance with haz mat requirements on 9/24/07
<i>3940 North First Street</i>			
2/10/04	Novellus Systems, Inc.	HMBP Certification Form	Form stated that 2/28/03 HMBP was complete and accurate; 2/28/03 HMBP not available.
8/31/04	Novellus	ROI	No hazardous materials permits indicated. No violations noted. Note stating "diesel fuel generator only".
<i>300 Holger Way</i>			
2/12/01	Redback Networks	HMBP	Hazardous materials reported in inventory included 392 gallons diesel fuel oil and 180 gallons hydraulic oil. No hazardous wastes included in inventory.
1/28/02	Redback Networks	HMBP Certification Form	Form stated that 2/12/01 HMBP was complete and accurate.
1/28/02	Redback Networks	ROI	Facility reportedly had flammable/combustible liquids, hazardous materials, and industrial baking or drying ovens permits. No violations noted.
<i>350 Holger Way</i>			
5/14/07	Force 10 Networks	ROI	Facility reportedly had battery system, hazardous materials, and flammable/combustible liquids permits. ROI was from a complaint investigation for a faulty emergency sprinkler head. Inspection notes included need to provide spill absorbent for batteries, clean up spill from largest battery, label battery room doors (room contains 48 batteries with 2 gallons of acid each), label WPS system as containing sulfuric acid, label battery cabinet, submit a HMBP, and perform visual inspections of diesel tank and three battery rooms.
5/31/07	Force 10 Networks	HMBP	Hazardous materials reportedly in inventory included 112 gallons sulfuric acid enclosed within batteries and 396 gallons diesel fuel #2 in an AST.
<i>75 Nicholson Lane</i>			
12/10/99	Perkin Elmer	Inventory for Building Occupancy Classification	Hazardous materials reported in inventory included 1 pound or 1 gallon or less each of approximately 29 different laboratory chemicals, 250 cubic feet acetylene, 4,106 cubic feet liquid argon, 780 cubic feet gaseous argon, 2,620 cubic feet liquid nitrogen, 780 cubic feet gaseous nitrogen, 250 cubic feet nitrous oxide, 260 cubic feet argon/hydrogen, 260 cubic feet argon/methane, 669 cubic feet helium, 1.8 cubic feet hydrogen, 1.8 cubic feet methane, 0.5 cubic feet hydrogen/helium, 249 cubic feet oxygen, 0.2 pounds sodium cyanide, 0.45 pounds anhydrous ammonia, 0.25 gallons nitric acid, 0.25 gallons hydrofluoric acid, 1 gallon hydrochloric acid, and 0.25 gallons tetramethylammonium hydroxide.
8/19/02	Perkin Elmer, LLC	ROI	Facility reportedly had compressed gases, flammable/combustible liquids, and hazardous materials permits; no violations noted.

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**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>101 Nicholson Lane</i>			
1/10/05	inTEST Corporation	Hazardous Materials/Waste Registration Form (HMWRF)	Hazardous materials reported in inventory included 6 gallons IPA, 2 pounds welding rods, 0.3 pound SP-44, 3 pounds various lubricants, 3 pounds various adhesives, 0.039 gallon Loctite 271, 4 gallons paints, 10 gallons lubricating oil, 60 gallons Instapak Components, 1 gallon Instapak port cleaner, 25 gallons assorted oils, 20 gallons metalworking fluid, and 0.0398 gallon tapping fluid. Hazardous waste reported limited to 50 gallons used oil.
12/29/05	inTEST	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. Inspection notes included need to provide metal waste can with tight-fitting lid, label waste, and remove combustibles from flammable cabinet.
<i>51 Rio Robles</i>			
2/11/04	KLA Tencor	ROI	Facility reportedly had cryogenics, flammable/combustible liquids, and hazardous materials permits. Inspection notes indicated need to separate oxygen from propane, label and placard cryogenic tank, and restrain gas cylinders. An associated 3/10/04 letter from KLA Tencor indicated that violations had been corrected.
3/8/04	KLA-Corporation	HMBP	Hazardous materials reported in inventory included 1,002 cubic feet helium, 40 gallons propane, 9 gallons miscellaneous solvents, 0.2 pound miscellaneous adhesives, 20 gallons miscellaneous solvents, and 5,000 gallons cryogenic nitrogen. Hazardous waste reportedly limited to 30 gallons waste IPA/acetone.
<i>125 Rio Robles</i>			
10/5/99	Cisco Systems, Inc.	HMWRF	Hazardous materials reportedly limited to 32 gallons battery electrolyte (sulfuric acid and water). No hazardous wastes reported to be generated.
<i>145 Rio Robles</i>			
2/11/04	KLA Tencor	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. Inspection notes indicated need to perform monthly monitoring and separate incompatibles in cabinet storage. Inspection note stated that facility exceeded maximum quantities for exterior storage of moderately- to highly-toxic gases; quantities reportedly reduced to below maximum quantity.
5/26/04	KLA-Corporation	HMBP	Toxic gases reported in inventory included 0.5 pound hydrogen gas, 0.1 pound hydrogen bromide, 0.2 pound hydrogen chloride, 0.5 pound carbon tetrachloride, 4 pounds dichloroethane, 2 pounds xenon difluoride, 0.1 pound fluorine gas, 0.4 pound chlorine, 0.1 pound hydrogen fluoride, 0.5 pound sulfur hexafluoride, 1 pound trifluoromethane, 0.4 pound bromine, and 0.3 pound nitric oxide. Other hazardous materials reported in inventory included 19 gallons miscellaneous flammable solvents, 1 pound miscellaneous adhesives, 6 pounds spray paint, 5 gallons methanol, and 1 gallon hydrofluoric acid. No hazardous wastes reported.
<i>80 Rose Orchard Way</i>			
3/27/02	JDS Uniphase	HMBP	Hazardous gases reported in inventory included 2,317 cubic feet hydrogen/nitrogen, 1,960 cubic feet hydrogen/argon, 4,540 pounds ammonia, 66 cubic boron trichloride, 162 cubic feet chlorine, 1,400 cubic feet carbon dioxide, 1,260 cubic feet carbon tetrachloride/hydrogen, 3,220 cubic feet oxygen, 32,386 cubic feet argon, 1,026 cubic feet phosphine, 2,120 cubic feet helium, 216 cubic feet hydrogen, 1,500 cubic feet hydrogen selenide/hydrogen, 330 cubic feet tetrafluoromethane, 1,500 cubic feet arsine, 770 cubic feet hydrogen/silane, 6,154 cubic feet nitrogen, 455 cubic feet arsine/argon, 18,156 cubic feet liquid nitrogen, 1,500 gallons liquefied hydrogen, 645 cubic feet helium, 1,260 cubic feet assorted halocarbons, 257 cubic feet methane, 186 cubic feet sulfur hexafluoride, and 522 cubic feet nitrous

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**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
			<p>oxide. Non-gaseous hazardous materials reported in inventory included 120 gallons each of two types of alcohol as well as smaller quantities of additional alcohols/alcohol mixtures, 205 gallons acetone, 14 gallons ethylene glycol, 4 gallons NMP, 30 gallons cupric sulfate pentahydrate, 229 gallons hydrochloric acid, 130 gallons hydrofluoric acid, 55 gallons sulfuric acid, 16 gallons assorted resist compounds, 215 gallons ferric chloride, 45 gallons buffered oxide etch, 4 gallons phosphoric acid, 19 gallons nitric acid, from less than 1 to 8 pounds each of numerous assorted metal-containing compounds, 100 gallons vacuum pump oil, 4 gallons AZ-300, 140 gallons assorted developers, 113 gallons assorted strippers, 98 gallons bleach, 41 gallons ammonium hydroxide, 352 gallons sodium hydroxide, 128 gallons potassium hydroxide, 44 gallons assorted sodium gold sulfite-containing solutions, 55 gallons sodium hypochlorite, 60 gallons assorted AZ compounds, 70 gallons hydrogen peroxide, 120 gallons nitric acid, 165 gallons ferric chloride, 710 gallons diesel, 250 gallons anionic polymer, 50 gallons sodium metabisulfite, 550 gallons calcium chloride, 10 gallons Microposit, 4 gallons assorted Axarel compounds, 14 gallons assorted BOE compounds, 1 gallon ethylene diaminetetraacetic acid, 1 pound potassium ferricyanide, 2 gallons chromium etchant, 6 gallons hydrogen peroxide, 1 gallon hydrobromic acid, 4 gallons chromium etchant, 1 gallon hexamethyldisilazane, 3 gallons Fomblin oil, 12 gallons Chemlox slurry, as well as 2 gallons or less of several additional chemicals. Hazardous wastes reported in inventory included 55 gallons used vacuum pump oil, 10 gallons waste photoresist, 3,500 pounds lab debris contaminated with solvents, arsenic and corrosives, and arsenic, 4,500 pounds filter press cake, 900 pounds spent charcoal with arsenic, 350 gallons waste etchant, 400 gallons mixed solvent waste, 2,000 gallons production waste water, 300 pounds waste phosphorus in oil, 1,000 pounds scrubber sludge with arsenic, and 15 pounds waste wipes with phosphorus in water.</p>
10/31/03	JDS	ROI	<p>Facility reportedly had compressed gases, cryogenics, flammable/combustible liquids, and hazardous materials permits. Violations noted included need to submit updated HMBP, segregate incompatible materials, and secure cylinders inside chemical bunkers.</p>
<i>120 Rose Orchard Way</i>			
2/1/05	Stratex Networks, Inc.	HMBP	<p>Hazardous materials reported in inventory included 5 gallons flux remover, 1 gallon soldering flux, 1,500 gallons liquid nitrogen, and 200 gallons diesel. Reported hazardous waste was limited to 1 gallon lab-pack chemicals.</p>
9/26/06	Stratex Networks, Inc.	ROI	<p>Facility reportedly had flammable/combustible liquids, cryogenics, and hazardous materials permits. No violations noted, with exception of need to remove propane cylinders or add to HMBP.</p>
<i>130 Rose Orchard Way</i>			
7/26/06	MTI Laboratory, Inc.	HMBP	<p>Hazardous materials reported in inventory included 4 gallons acetone, 4 gallons IPA, 2,918 gallons liquid nitrogen, 200 cubic feet hydrogen/nitrogen, 6 gallons flux remover, and 3 gallon soldering flux. No hazardous wastes were reported.</p>
9/26/06	MTI Laboratory	ROI	<p>Facility reportedly had compressed gases, cryogenics, flammable/combustible liquids, and hazardous materials permits. No violations noted.</p>

(continued)

**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>90 East Tasman Drive</i>			
2/10/05	Palmer College of Chiropractic	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. Inspection notes indicated no chemicals were present in microbiology lab and that cabinets in chemistry lab were unable to be inspected. An updated HMBP was needed. The anatomy lab reportedly had 10 gallons IPA and 10 gallons of formaldehyde; the x-ray dark room had 15 gallons fixer, 15 gallons replenisher, 15 gallons waste fixer, and 15 gallons waste replenisher. Discontinuation of labeling of cabinets and fume hoods where hazardous materials no longer were in use was required. In addition, Patten College appeared to share the Palmer College space.
3/8/05	Palmer College of Chiropractic West	HMWRF	Hazardous materials reported in inventory included 15 gallons x-ray developer, 15 gallons x-ray fixer, and less than 1 gallon or 6 pounds each of numerous laboratory chemicals present in the chemistry lab and Patten College area. Hazardous wastes reportedly included 15 gallons waste x-ray fixer and 15 gallons waste x-ray developer.
<i>105 East Tasman Drive</i>			
6/21/07	Sirenza Microdevices, Inc.	ROI	Facility reportedly had cryogen, flammable/combustible liquids, and hazardous materials permits. Inspection notes indicated an updated HMBP was needed and that liquid nitrogen dewars needed to be seismically secured.
8/1/07	Sirenza Microdevices, Inc.	HMBP	HMBP noted facility was a new business. Hazardous materials reported in inventory included 20 gallons IPA, 120 pounds propane, 10 pounds solder paste, 20 pounds solder, 4 gallons solder flux, 360 gallons liquid nitrogen, and 168 cubic feet argon. No hazardous wastes were reported.
<i>160 East Tasman Drive</i>			
7/12/07	Interwoven	HMBP	Hazardous materials reported in inventory included 650 gallons diesel and 4,128 pounds UPS batteries. No hazardous wastes were reported.
<i>225 East Tasman Drive</i>			
2/23/07	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 30 gallons AA-315 (glutaraldehyde), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons C-480 (sulfuric acid/zinc chloride), 140 gallons R-123 (refrigerant), and 34.08 gallons battery electrolyte. Hazardous wastes reportedly include 50 gallons used pump oil and 800 pounds waste debris contaminated with propanol and lead.
4/26/07	Cisco Systems, Inc.	ROI	Facility reportedly had hazardous materials industrial/baking ovens, and hot works permits. No hazardous materials violations noted.
<i>260 East Tasman Drive</i>			
7/15/03	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.
4/18/06	Cisco Systems	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. No violations noted.
<i>275 East Tasman Drive</i>			
12/21/00	Cisco Systems	ROI	Facility reportedly had oven, flammable/combustible liquids, and hazardous materials permits. No violations noted.
2/23/07	Cisco Systems	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.

(continued)

**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>300 East Tasman Drive</i>			
7/15/03	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 800 gallons diesel in an AST, as well as 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.
5/14/07	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.
<i>10 West Tasman Drive</i>			
7/15/03	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 10 gallons C-366, 10 gallons MF-62 (sodium hydroxide/sodium nitrite), and 40 gallons battery electrolyte.
9/25/06	Cisco Systems, Inc.	ROI	Facility had hazardous materials permit. No hazardous materials violations noted.
<i>80 West Tasman Drive</i>			
11/18/05	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 800 gallons diesel in an AST, 10 gallons C-366, 10 gallons MF-62 (sodium hydroxide/sodium nitrite), and 40 gallons battery electrolyte.
8/28/06	Cisco Systems, Inc.	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. No hazardous materials violations noted, with the exception of need for an updated site map in HMBP.
<i>125 West Tasman Drive</i>			
2/21/07	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 336 cubic feet argon, 248 cubic feet oxygen/carbon tetrafluoride, 70 cubic feet carbon tetrafluoride, 401 cubic feet liquid nitrogen, 1,444 cubic feet nitrogen, 249 cubic feet oxygen, 10 gallons C-366, 10 gallons MF-62 (sodium hydroxide/sodium nitrite), and 40 gallons battery electrolyte.
7/14/06	Cisco Systems, Inc.	ROI	Facility reportedly had flammable/combustible liquids and hazardous materials permits. No hazardous materials violations noted.
<i>170 West Tasman Drive</i>			
3/14/06	Cisco Systems, Inc.	ROI	No hazardous materials permits noted. Three liquid nitrogen tanks present at facility reportedly were installed without permits; other inspection notes indicated need to provide placarding on liquid nitrogen enclosure, include flammable cabinet chemicals in HMBP, and label process piping. Violations noted as corrected.
12/19/06	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 900 gallons diesel in an AST, 10 gallons C-366, 10 gallons MF-62 (sodium hydroxide/sodium nitrite), and 40 gallons battery electrolyte.
<i>175 West Tasman Drive</i>			
1/11/01	Cisco Systems, Inc.	ROI	Facility reportedly had hazardous materials and oven permits. No violations noted.
11/18/05	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 10 gallons C-366 and 10 gallons MF-62 (sodium hydroxide/sodium nitrite).

(continued)

**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>3500 Zanker Road</i>			
12/11/06	Agnews Developmental Center	HMBP	Hazardous materials reported in inventory included 60 gallons water system chemical treatment chemical, up to 5 gallons each of assorted oils, 1 gallon PVC cement, 653 cubic feet acetylene, 15 gallons refrigeration oil, 1,400 pounds Refrigerant 11, 25 to 110 gallons each of several boiler chemicals, 543 pounds aerosol paint and primer, 108 pounds aerosol lubricant, 120 pounds sealant, 2 to 10 gallons and 240 to 288 pounds each of assorted herbicides, 2,000 pounds Weed & Feed, 35 gallons propane, 275 gallons transmission fluid, 165 gallons hydraulic fluid, 90 pounds HD grease, 110 gallons gear lube oil, 495 gallons engine oil, 55 gallons diesel, 35 gallons ethyl alcohol sterilizer, 380 pounds Sanitize aerosol, 160 pounds pipe thread compound, 30 gallons chlorine, 22,080 cubic feet oxygen, 330 gallons liquid oxygen, 30 gallons developer, 15 gallons fixer, 90 gallons mineral spirits, 90 gallons germicidal cleaner, 600 gallons latex paint, 2,000 and 15,000 gallons diesel in ASTs, 100 gallons diesel in an emergency generator, 10,000 gallons diesel in an underground storage tank (UST), 2,000 gallons gasoline in an AST, and small volumes (less than 20 gallons each) of additional assorted cleaners, adhesives, varnish, stripper, and oils. Reported hazardous wastes included 165 gallons hydraulic fluid, 275 gallons assorted transmission fluid, 495 gallons engine oil, 110 gallons gear lube oil, 15 gallons photographic fixer, and 30 gallons photographic developer.
<i>3750 Zanker Road</i>			
7/15/03	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.
<i>3800 Zanker Road</i>			
2/23/07	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), 800 gallons diesel in an AST, and 40 gallons battery electrolytes.
3/29/07	Cisco Systems, Inc.	ROI	Facility reportedly had battery system, flammable/combustible liquid, and hazardous materials permits. No significant hazardous materials violations noted, other than hydraulic leak for elevator.
<i>3850 Zanker Road</i>			
2/23/07	Cisco Systems, Inc.	HMBP	Hazardous materials reported in inventory included 180 gallons R-123 (refrigerant), 30 gallons C-480 (sulfuric acid/zinc chloride), 30 gallons AA-4015 (chloromethylisothiazolinone/copper nitrate trihydrate/magnesium chloride/magnesium nitrate), 30 gallons B-261 (sodium nitrite), 30 gallons AA-315 (glutaraldehyde), and 40 gallons battery electrolytes.
3/29/07	Cisco Systems, Inc.	ROI	Facility reportedly had hazardous materials permit. Inspection noted need for secondary containment for hazardous materials.

(continued)

**AVAILABLE SJFD FILE REVIEW INFORMATION
(CONTINUED)**

Document Date	Business Name	Document Type	Information Obtained
<i>3990 Zanker Road</i>			
2/22/07	Santa Clara VTA Cerrone Bus Maintenance Division	HMBP	No non-waste hazardous materials included in inventory. Hazardous wastes reported in inventory included 1,000 pounds used absorbents, 1,800 pounds crushed oil filters, 1,240 gallons waste and mixed oil, 1,800 gallons partially empty spray cans, 1,330 gallons waste antifreeze, 330 gallons waste grease, 500 gallons waste oil and waste automatic transmission fluid, and 800 gallons wastewater treatment sludge.
7/9/02	SCV Transportation Authority Cerrone Comp.	ROI	Facility reportedly had flammable/combustible liquids, hazardous materials, hot works, compressed gases, motor vehicle fuel dispensing stations, repair garages, and liquefied petroleum gas permits. No violations noted.

* Company name not observed at time of reconnaissance, but appeared to be current tenant.

** A telephone interview with the facilities supervisor of MVC indicated that significant quantities of hazardous materials no longer are used/handled/stored at the facility and a HMBP is not required by the SJFD.

Further chemical inventory data was requested for the Santa Clara VTA Cerrone Bus Maintenance Division (3990 Zanker Road) and Novellus Systems, Inc. (3940 North First Street) facilities from the facilities themselves, as adequate information was not available at the SJFD. At the time this study was completed, data had not been obtained from the facilities. Visual reconnaissance however, indicated that bus repair and maintenance were the main operations conducted at the VTA facility. In addition, based on the available SJFD documents, it appears likely that hazardous materials at the Novellus Systems facility are limited to diesel for an emergency generator.

Regulatory Agency Database Review

A summary of the reported facilities identified in the regulatory agency database report appearing to be potentially significant to the project site, with respect to hazardous materials usage/hazardous waste generation, chemical releases to the environment, or significant air emissions, is presented in the table on the following page. The complete regulatory agency database report, including a list of the databases reviewed, the search distances, and a figure showing the business locations with respect to the project site (identified by map ID number), is included in an appendix to this letter.

POTENTIALLY SIGNIFICANT FACILITIES IDENTIFIED IN REGULATORY AGENCY DATABASE REPORT

Facility	Map ID No.	Address	Pertinent Information
Analog Devices	V109/V110	3550 North First Street	Present on Haznet database for generation of less than 1/2 ton each unspecified solvent mixture waste, other organic and inorganic solids, and unspecified organic liquid mixture. Present in emissions inventory database as emitting 0.001 tons total organic hydrocarbon gases, 0.0008 tons reactive organic gases, 0.001 tons carbon monoxide, and 0.013 tons NOx in 2005 **.

(continued)

**POTENTIALLY SIGNIFICANT FACILITIES IDENTIFIED IN REGULATORY AGENCY DATABASE REPORT
(CONTINUED)**

Facility	Map ID No.	Address	Pertinent Information
Maxim	J46/J47/ J49	3725 North First Street	RCRA large quantity generator with reported generation of 307,192 pounds ignitable hazardous waste, 96 pounds mercury waste, 1,440 pounds unspecified hazardous waste, and 309.746 pounds spent non-halogenated solvents. Three RCRA violations noted, in 2001, 2003, and 2005. Present on Haznet database for generating approximately 10½ tons unspecified organic liquid mixtures. Reported in CHMIRS database for 3/04 release of 1,000 grams silane and for 4/05 release of 1 gallon hydrogen chloride resulting from employees dropping containers. Present in emissions inventory database for emitting 1.56 tons total organic hydrocarbon gases, 1.15 tons reactive organic gases, 0.043 ton carbon monoxide, 0.197 ton NOx, 0.003 ton SOx, and 0.036 ton particulate matter with 0.025 ton less than 10 um in diameter in 2005**. Listed on San Jose Hazmat database as electronics firm.
Sprint PCS*	J36	3730 North First Street	Listed on San Jose Hazmat database as miscellaneous complex firms/labs.
Minuteman Press*	93	3730 North First Street	Present on Haznet database for generation of 0.6 ton photochemicals/photoprocessing waste.
RAE Systems	M67/M68/M 69	3775 North First Street	Present on Haznet database for generation of 0.06 ton off-specification/surplus organics. Listed on San Jose Hazmat database as miscellaneous complex firms/labs.
STS Calif SVCS LLC	W111/W112	3901 North First Street	Listed on San Jose Hazmat database as electronics firm.
Vitellic Corporation*	I31	3910 North First Street	RCRA small quantity generator with no violations noted.
LTX Corporation	H27/K54/K5 5/K56	3930 North First Street	Present on Haznet database for generating less than ½ ton each unspecified organic liquids, halogenated solvents, waste oil/mixed oil, and liquids with halogenated organic compounds greater than 1,000 mg/L. Listed in CHMIRS database for a chemical release in 9/90; no details available. Present in emissions inventory database as emitting 0.263 ton total organic hydrocarbon gases and 0.105 ton reactive organic gases in 2005**.
Force 10 Networks	108	350 Holger Way	Listed in San Jose Hazmat Database as miscellaneous complex firm
Perkin Elmer	K45	75 Nicholson Lane	Present on Haznet database for generation of less than ½ ton each liquids with pH less than 2, unspecified aqueous solutions, oxygenated solvents, and unspecified organic liquid mixtures. Listed on San Jose Hazmat database as miscellaneous complex firms/labs.
Intest	20	101 Nicholson Lane	Present on Haznet database as generating 1.4 tons waste oil/mixed oil. Listed on San Jose Hazmat database as an auto wrecking/miscellaneous simple facility.
KLA-Tencor	U107	51 Rio Robles	Present on Haznet database for generation of 0.008 ton other inorganic solid waste and 0.5 ton unspecified solvent mixture waste.
KLA-Tencor	AE143	145 Rio Robles	Listed on San Jose Hazmat database as miscellaneous complex firms/labs.

(continued)

**POTENTIALLY SIGNIFICANT FACILITIES IDENTIFIED IN REGULATORY AGENCY DATABASE REPORT
(CONTINUED)**

Facility	Map ID No.	Address	Pertinent Information
JDS	N70/AD145	80 Rose Orchard Way	RCRA large quantity generator of 22,712 tons ignitable waste, 14,515 pounds arsenic waste, 3,567 tons reactive waste, and 1,525 tons spent non-halogenated solvents in 2005**; one noted violation in 2005. Present on Haznet database for generation of less than 1 ton each unspecified oil-containing waste, off-specification/surplus organics, laboratory waste chemicals, oxygenated solvents, other organic solids, and liquids with arsenic greater than 500 mg/L; also for generating 5.83 tons other inorganic solid waste and 7.4 tons liquids with halogenated organic compounds. Listed on San Jose Hazmat database as electronics firm.
Stratex Networks, Inc.	AD140	120 Rose Orchard Way	Listed on San Jose Hazmat database as miscellaneous complex firms and labs.
Palmer College of Chiropractic West	5	90 East Tasman Drive	Present on Haznet database for generating less than 1 ton each photochemicals/photoprocessing waste, laboratory waste chemicals, liquids with lead greater than 500 mg/L, liquids with mercury greater than 20 mg/l, alkaline solutions without metals, liquids with pH less than 2 containing metals, waste oil/mixed oil, and off-specification/surplus organics.
Sirenza Microdevices	4	105 East Tasman Drive	Listed on San Jose Hazmat database as auto wrecking/miscellaneous simple facility.
Interwoven	B6	160 East Tasman Drive	Listed on San Jose Hazmat database as auto wrecking/miscellaneous simple facility.
Cisco Systems, Inc.	32	225 East Tasman Drive	Present on Haznet database for generating 0.05 tons aqueous solutions with less than 10% total organic residue. Listed on San Jose Hazmat database as an auto wrecking/miscellaneous simple facility.
Cisco Systems, Inc.	97	300 East Tasman Drive	Present in emissions inventory database for emitting 0.03 tons total organic hydrocarbon gases, 0.025 tons reactive organic gases, 0.068 tons carbon monoxide, 0/247 tons NOx, 0.033 tons SOx, and 0.006 tons particulate matter with 0.0059 tons less than 10 um in diameter.
Cisco Systems, Inc.	I43/I44	10 West Tasman Drive	Present on Haznet database for generating 0.01 ton aqueous solution with less than 10% total organic residue. Listed on San Jose Hazmat database as an auto wrecking/miscellaneous simple facility.
Cisco Systems, Inc.	141	125 West Tasman Drive	Present on Hazmat database for generation of 1.04 tons waste oil/mixed oil.
---	AW215	3300 Zanker Road	Listed in ERNS database for 4/96 release from a truck battery which had overturned.
Agnews Developmental Center - East	98/AN179/ AN180/ AN182	3500 Zanker Road	RCRA small quantity generator with no violations noted. Present on Haznet database for generating from less than 1 to approximately 6 tons each other inorganic solid waste, photochemicals/photoprocessing waste, oil/water separation sludge, unspecified organic liquid mixture, unspecified alkaline solutions, waste oil/mixed oil, unspecified oil-containing waste, other organic solids, alkaline solutions without metals, liquids with halogenated organic compounds greater than 1,000 mg/L, oxygenated solvents, off-specification/surplus organics, solid/sludge with halogenated organic compounds greater than 1,000 mg/L, latex waste, unspecified aqueous solutions, latex waste chemicals, hydrocarbon solvents, adhesives, polymeric resin waste, paint sludge, liquids with PCBs greater than 50 mg/L, unspecified solvent mixture waste, and aqueous solutions with less than 10% total organic residues. Present in emissions inventory database for emitting 0.049 ton total organic hydrocarbon gases, 0.036 ton reactive organic gases, 0.176 ton carbon monoxide, 0.766 ton NOx, 0.008 ton SOx, and 0.04 ton particulate matter with 0.039 ton less than 10 um in diameter in 2005**.

(continued)

**POTENTIALLY SIGNIFICANT FACILITIES IDENTIFIED IN REGULATORY AGENCY DATABASE REPORT
(CONTINUED)**

Facility	Map ID No.	Address	Pertinent Information
Cisco Systems, Inc.	23	3750 Zanker Road	Listed on san Jose Hazmat database as auto wrecking/ miscellaneous simple facility.
Santa Clara County of Transit	T101/T102/ T103/T104	3990 Zanker Road	RCRA large quantity generator of 2,829 pounds ignitable waste, 224 pounds cadmium waste, 224 pounds methyl ethyl ketone waste, 224 pounds trichloroethylene waste, 224 pounds perchloroethylene waste, 224 pounds spent non-halogenated solvents, 6,220 pounds arsenic waste, and 1,504 pounds benzene waste. Present on Haznet database for generation of generally less than 1 to 1½ tons each oxygenated solvents, aqueous solutions with reactive anions, alkaline solutions with metals, other organic solids, aqueous solutions with less than 10% total organic residue, liquids with mercury greater than 20 mg/L, tank bottom waste, alkaline organic liquids with metals, alum and gypsum sludge, hydrocarbon solvents, unspecified solvent mixture waste, and organic liquids with halogens; also for generation of 6.9 tons liquids with halogenated organic compounds greater than 1,000 mg/L, 5 tons degreasing sludge, 34.3 tons unspecified organic liquid mixtures, and 129.5 tons unspecified oil-containing waste. Present in emissions inventory database for emission of 0.572 ton total organic hydrocarbon gases, 0.492 ton reactive organic gases, 0.011 ton carbon monoxide, 0.083 ton NOx, 0.006 ton SOx, and 0.002 ton particulate matter with 0.0011 ton less than 10 um in diameter in 2005**. Included in ERNS database for documented oil flowing from excavated trenches in 12/92. Facility reportedly has no waste water treatment system but discharges waste water.

* Unconfirmed as current tenant, although appears likely to be.

** 2005 is most recent year for which data was available to EDR from referenced databases.

Screening Level Chemical Risk Appraisal

Based on the information summarized in the previous sections, hazardous materials storage at KLA-Tencor (145 Rio Robles), MTI Laboratories (130 Rose Orchard Parkway), and Cisco Systems (125 West Tasman Drive) appeared to warrant further evaluation. Risicare, LLC was retained to further evaluate the most-recently available hazardous materials inventories available for these facilities. After review, Risicare, LLC concluded that modeling hypothetical catastrophic releases for the three facilities was not necessary due to the relatively small quantities of hazardous materials present, the physical properties of the reported hazardous materials, and the distances of the facilities from the project site.

Summary of Previous Screening Level Chemical Risk Appraisal

Screening level chemical risk appraisal previously has been conducted for nine of the vicinity facilities and two additional facilities, located beyond the 1/2-mile radius but also in relatively close proximity to the site, as part of previous hazardous materials users surveys. The previous surveys were conducted for two proposed redevelopment projects located in the immediate vicinity of the current project site. Excerpts from documents containing the previously-prepared risk appraisal data were obtained through the SJPD for the Sony (3300 Zanker Road) and Vista Montana Park (4041 North First Street, 55 and 81 Vista Montana Drive, and 305 West Tasman Drive) projects.

As part of the previous appraisals, worst-case chemical release scenarios were developed for the 11 facilities. Data on the radii of impact obtained from computer modeling of the scenarios is summarized in the table on the following page. Please note that the modeling output for vicinity facilities summarized below, including the radii of impact, was generated using input parameters specific to the previous projects; plume behavior varies with momentum and buoyancy, and therefore an exact correlation of the data from previous projects to the current site may not be entirely accurate.

PREVIOUS SCREENING LEVEL CHEMICAL RISK APPRAISAL RESULTS

Worst-Case Release Scenario	Radius of Impact (miles)
<i>OLS Energy - Agnews – 3800 Cisco Way (0.83 miles from site)</i>	
Ammonia Release (58,000 pounds)	4.2
<i>Novellus Systems – 4000 North First Street (0.59 mile from site)</i>	
Phosphine Release – 50% (64 ft ³)	0.51
Ammonia Release (1,125 ft ³)	0.1
Hydrofluoric Acid Release – 70% (55 gallons into 200 ft ² containment)	0.18
Nitrogen Trifluoride Release (239 ft ³)	0.02
<i>WPCP – 700 Los Esteros (1.08 miles from site)</i>	
Chlorine Release (180,000 pounds)	3.4
<i>Supertex – 71 Vista Montana (0.81 mile from site)</i>	
Facility reportedly will be redeveloped and therefore was not considered a concern.	
<i>Perkin Elmer – 75 Nicholson Drive (0.23 mile from site)</i>	
No chemicals of concern identified at facility.	
<i>Wyse – 3471 and 3475 North First Street (0.51 mile from site)</i>	
Chlorine Release (100 pounds)	0.83
<i>Maxim Integrated Products – 3725 North First Street (0.31 mile from site)</i>	
Chlorine Release (90 pounds)	0.78
Phosphine Release – 5% (259 ft ³)	0.32
Arsine Release (2.9 pounds)	0.33
Liquid Hydrogen Release (900 gallons)	0.08
<i>RAE Systems – 3775 North First Street (0.35 mile from site)</i>	
No chemicals of concern identified at facility.	
<i>STS CA SVCS* - 3901 North First Street (0.45 mile from site)</i>	
Phosphine Release – 100% (196 ft ³)	1.3
Chlorine Release (90 pounds)	0.78
Ammonia Release (272 ft ³)	0.05
Waste Acid Release – 40% (525 gallons into 400 ft ² containment)	0.58
Nitrogen Trifluoride Release (50 pounds)	0.02
<i>JDS Uniphase – 80 Rose Orchard Way (0.37 mile from site)</i>	
Arsine Release (150 ft ³)	1.1
Phosphine Release – 100% (342 ft ³)	1.8
Chlorine Release (81 ft ³)	0.31
Ammonia Release (1,135 pounds)	0.58
Liquid Hydrogen Release (1,500 gallons)	0.1
<i>Neophotonics – 2911 Zanker Road (1.1miles from site)</i>	
Ammonia Release (1,158 ft ³)	0.1
Phosphine Release (210 cubic feet)	1.4
<i>Agnews Developmental Center – 3500 Zanker Road (0.24 mile from site)</i>	
Gasoline Release – as toluene (2,000 gallons into 1,000 ft ² containment)	0.014

**Previously modeled for Cypress Semiconductor*
 Bold = potentially significant impact

Conclusions

Railroad Tracks – Rail spurs or main lines were not observed within ½ mile of the site, with the exception of VTA Light Rail tracks.

Hazardous Materials/Waste Pipelines – Based on the data available for this study, there do not appear to be hazardous materials/waste pipelines adjacent to the project site.

Previous Screening Level Risk Appraisal for Toxic Gas/CalARP and Other Vicinity Facilities – Based on the recorded addresses of the City of San Jose hazardous gas facilities, seven are located within 1 mile of the site, including four located within the ½-mile search radius. Based on results of the screening level risk appraisal modeling prepared for other projects in the site vicinity, a worst-case release of hazardous gases from Maxim Integrated Products, Cypress Semiconductor (STS CA SVCS), and JDS Uniphase could have significant impacts at the site exterior. Usage of anhydrous ammonia by Moitozo Brothers, Inc. reportedly was discontinued in 2003.

Based on information available from the SCCEHD, two CalARP facilities appear to be located within 1 mile of the project site and one CalARP facility was located outside the 1-mile search radius but within a potentially significant distance from the site. Information available from Mr. Ruben Williams of the SCCEHD indicated that the Program 1 ranking of an aqueous ammonia release from the Calpine Los Esteros facility indicated that a release would not cross the facility boundaries; therefore the facility would not pose a significant risk to future occupants of the project site. Additional information provided by the SCCEHD regarding the OLS Energy – Agnews facility, and preliminarily modeled using RMP Comp, indicated that a release of anhydrous ammonia from the facility could pose a significant threat to occupants of the site. Previous screening level risk appraisal data for the OLS Energy – Agnews facility also indicated that a worst-case release of ammonia could have a significant impact at the site exterior. Previous screening level risk appraisal data for the WPCP facility indicated that a worst-case release of chlorine could have a significant impact at the site exterior.

Based on results of the screening level risk appraisal data prepared previously for vicinity hazardous materials users not included on the CalARP or SJFD toxic gas databases, a worst-case release of chemicals from Wyse and Neophotonics could have significant impacts at the site exterior.

Under SJFD oversight, facilities utilizing significant quantities of hazardous materials typically maintain engineering and management controls to reduce the potential for a significant chemical release. In addition, as required by the CalARP program, all three CalARP facilities have risk management prevention plans (RMPPs) in place, which include engineering and management controls to reduce the potential for releases of the hazardous chemicals they maintain. Along with the controls typically in place, the distance of the facilities from the site, the actual amount of hazardous materials released, actual atmospheric conditions at the time of such a release, and the topography and development present in the plume path would aid in dispersal of the plume prior to it reaching the site boundary.

Previous studies conducted of the Sony and Vista Montana Park projects for the City of San Jose concluded that the likelihood of a catastrophic release of hazardous materials from the above facilities significantly impacting those projects was low. The 166 Baypointe Parkway site is located at a generally similar distance from the above facilities to that of the Sony and Vista Montana Park projects, and therefore risk appraisal conducted specific to the site likely would produce similar data with regards to potential impacts.

References

Belinda P. Blackie, P.E., R.E.A. *Vicinity Hazardous Materials Users Survey Further Evaluation, Proposed Vista Montana Park and Sobrato Vista Montana Developments, San Jose, California.* October 15, 2006.

TRC Lowney. *Screening Level Chemical Risk Appraisal, Selected Hazardous Materials Inventories, Vicinity of 3300 Zanker Road, San Jose, California.* February 13, 2007.

Limitations

The conclusions and recommendations made in this letter regarding potentially significant hazardous substance users within the site vicinity were based on business names/addresses readily observable from accessible public right-of-ways and review of readily available documents containing data collected and/or reported by others at the time this study was performed. Other businesses using hazardous materials may have been located within 1/2 mile of the site, but were not observable or readily identifiable at the time this study was performed; data collected and/or reported by others may or may not have been accurate. The accuracy and completeness of hazardous materials information included in the available SJFD files is unknown; more accurate information on types, quantities, and storage conditions of hazardous materials used at vicinity facilities could be obtained through performance of a site reconnaissance and/or interview with the business operators. The results of the screening level risk appraisals are limited by uncertainties associated with the completeness of the hazardous materials inventories available at the SJFD, the selection of chemicals for evaluation by Risicare, LLC, the size of each release, assumptions concerning release/emissions location, vapor pressures of released liquids, assumed area of liquid spills, surrogate use, and atmospheric conditions during the release. All release scenarios assumed that the site was located plume centerline, down wind at the time of the release; wind speed and wind direction vary over time. Chemicals were selected based on reported volume, recognized toxicity and/or flammability, and were judged to be representative of the potential release/emissions risks posed by each facility.

The data and conclusions presented in this letter are applicable only to the time this study was performed. Businesses within the site vicinity likely will change over time and this study should be updated as appropriate, to ensure that the most currently available data has been included. As with all hazardous materials surveys, the extent of information obtained was a function of client demands, time limitations, access limitations, and budgetary constraints.

This letter was prepared for the sole use of Northern California I 2005, L.P. No warranty, expressed or implied, has been made, except that the services have been performed in accordance with environmental principles generally accepted at this time and location.

Thank you for allowing me to assist you with this project. If you have any questions please do not hesitate to call.

Sincerely,



Belinda P. Blackie, P.E., R.E.A.
P.E. Number C56448
R.E.A. Number REA-06746

**Trammel Crow Residential
166 Baypointe Parkway
San Jose, California**

RF Exposure Study

February 29, 2008

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HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
SAN FRANCISCO

**Trammell Crow Residential
166 Baypointe Parkway • San Jose, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by Trammell Crow, a residential developer, to evaluate proposed modifications to the existing wireless telecommunications base stations (Sprint Nextel Site No. CA2954A and T-Mobile Site No. SF-519-03) located at 166 Baypointe Parkway in San Jose, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. In Docket 93-62, effective October 15, 1997, the FCC adopted the human exposure limits for field strength and power density recommended in Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar exposure limits. A summary of the FCC’s exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

<u>Personal Wireless Service</u>	<u>Approx. Frequency</u>	<u>Occupational Limit</u>	<u>Public Limit</u>
Advanced Wireless (“AWS”)	2,100 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Personal Communication (“PCS”)	1,950	5.00	1.00
Cellular Telephone	870	2.90	0.58
Specialized Mobile Radio	855	2.85	0.57
[most restrictive frequency range]	30–300	1.00	0.20

General Facility Requirements

Base stations typically consist of two distinct parts: the electronic transceivers (also called “radios” or “channels”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are often located at ground level and are connected to the antennas by coaxial cables about 1 inch thick. Because of the short wavelength of the frequencies assigned by the FCC for



**Trammell Crow Residential
166 Baypointe Parkway • San Jose, California**

wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. Along with the low power of such facilities, this means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation," dated August 1997. Figure 2 attached describes the calculation methodologies, reflecting the facts that a directional antenna's radiation pattern is not fully formed at locations very close by (the "near-field" effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the "inverse square law"). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

Site and Facility Description

Based upon information provided by Trammell Crow Residential, including drawings by MBH, dated December 14, 2007, there are presently installed directional panel antennas for use by Sprint Nextel and T-Mobile, personal wireless telecommunications carriers, on the existing building located at 166 Baypointe Parkway in San Jose. The existing building will be demolished and the antennas will be relocated within 15-foot enclosures above the roof of a new 6-story mixed use residential and retail building. The antennas would be mounted at an effective height of about 78 feet above ground, 13 feet above the roof.

For the purposes of this study, it is assumed that the carriers will install transmitting equipment typical of their other installations in the area: Andrew directional panel antennas for Sprint Nextel, PCS Model RR90-17-02 and SMR Model DB844G65, operating with a maximum effective radiated power in any direction of 3,000 watts, representing simultaneous operation at 1,500 watts each for PCS and for SMR service, and Andrew Model TMBXX-6516 directional panel antennas for T-Mobile, operating with a maximum effective radiated power in any direction of 2,000 watts, representing simultaneous operation at 1,000 watts each for PCS and for AWS service.

Study Results

For a person anywhere at ground, the maximum ambient RF level due to the combined operation of the assumed Sprint Nextel and T-Mobile base stations is calculated to be 0.0016 mW/cm², which is



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0.27% of the applicable public limit. The maximum calculated cumulative level at the top floor and on the roof of the subject building are 4.7% and 32% of the public exposure limit, respectively. This result is based upon typical operating parameters for those wireless communications facilities at the proposed site, in order to demonstrate that utilization of the facility can be made in conformance with FCC guidelines for exposure to radio frequency fields, although actual exposure conditions are expected to be less than the results above, due to several conservative assumptions.

Recommended Mitigation Measures

Due to their mounting locations and height above the roof, the Sprint Nextel and T-Mobile antennas would not be accessible to the general public, and so no mitigation measures would be necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, no access within 11 feet in front of the antennas themselves, such as might occur during building maintenance activities, should be allowed while the site is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory warning signs* at roof access locations and on the enclosures in front of and/or below the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the Sprint Nextel and T-Mobile base stations proposed to be located at 166 Baypointe Parkway in San Jose, California, would comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, would not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Posting of explanatory signs is recommended to establish compliance with occupational exposure limitations.

* Warning signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required.



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Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2009. This work has been carried out by him or under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

February 29, 2008



William F. Hammett
William F. Hammett, P.E.

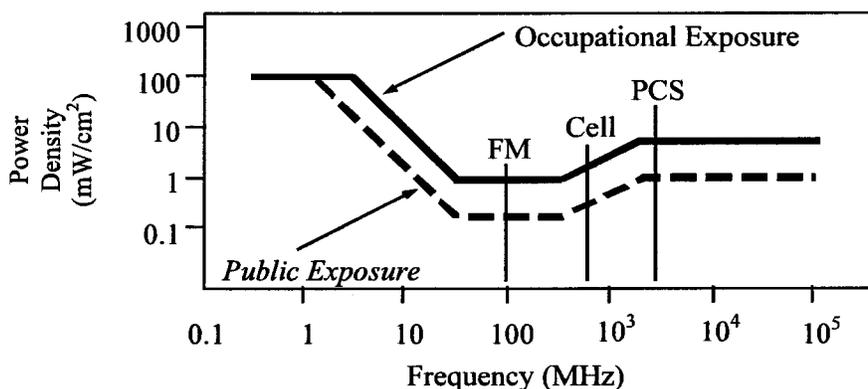


FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (<i>f</i> is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√ <i>f</i>	<i>1.59√f</i>	√ <i>f</i> /106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.



RFRCALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D^2 \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

where θ_{BW} = half-power beamwidth of the antenna, in degrees, and

P_{net} = net power input to the antenna, in watts,

D = distance from antenna, in meters,

h = aperture height of the antenna, in meters, and

η = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, in mW/cm²,

where ERP = total ERP (all polarizations), in kilowatts,

RFF = relative field factor at the direction to the actual point of calculation, and

D = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.



**166 BAYPOINTE PARKWAY
ENVIRONMENTAL NOISE AND GROUND-BORNE VIBRATION ASSESSMENT
SAN JOSE, CALIFORNIA
16 October 2007**

Prepared for:

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CSA Project No. 07-0405

INTRODUCTION

This report summarizes our environmental noise and ground-borne vibration assessment for the proposed mixed-use project at 166 Baypointe Parkway in San Jose, California. In 2006, we prepared a similar study at the site based on a previous iteration of the site plan. The purpose of this study is to quantify the noise environment, and ground-borne vibration levels due to VTA Light Rail trains, compare these with applicable standards for retail and residential projects, and recommend conceptual mitigation measures as necessary relative to the current site plan.

Following is a summary of our findings:

1. The project should incorporate sound-rated windows and doors to reduce interior noise levels to City and State standards. Where windows must be closed to achieve DNL¹ 45 dB indoors, the California Building Code requires a “ventilation or air-conditioning system to provide a habitable interior environment.” This applies to all units except those facing shielded courtyards.
2. Exterior noise levels in the central courtyard and on elevated balconies facing the courtyard are expected to be DNL 60 dB or less. In other locations, partial-height barriers could reduce environmental noise for seated persons at elevated balconies.
3. Based on measurement results, ground-borne vibration levels comply with the Federal Transit Administration (FTA) guidelines for residential and retail projects at the proposed building setbacks.

DESCRIPTION

The mixed-use project consists of approximately 4,000 square feet of retail space and 240 for-sale residences in a six-story building with first and second floor parking. Retail is located on the first floor, and two-story townhouses are located on the first and second stories. The third floor will include a central courtyard with pool, and single level residential units will be located on the third through sixth floors. The site plan is shown in Figure 1, attached.

The 2.86-acre site is currently occupied by an existing office building, and is part of the North San Jose Vision 2030 redevelopment plan. The Baypointe VTA² Light Rail station is located in the center of Tasman Drive to the west and three Light Rail tracks run down the center of the street adjacent to the site. The site is located approximately 1/3-mile to the south of Highway 237 and approximately 2 ½ miles north of the Mineta San Jose International Airport: outside the CNEL³ 60 dB airport noise contour⁴.

¹ Day/Night Average Sound Level (DNL) — A descriptor established by the U.S. Environmental Protection Agency to describe the average day-night level with a penalty applied to noise occurring during the nighttime hours (10 pm - 7 am) to account for the increased sensitivity of people during sleeping hours.

² Santa Clara Valley Transportation Authority

³ Community Noise Equivalent Level (CNEL) — A descriptor for the 24-hour A-weighted average noise level. The CNEL concept accounts for the increased acoustical sensitivity of people to noise during the evening and nighttime hours. Sound levels during the hours from 7 pm to 10 pm are penalized 5 dB; sound

VTA Light Rail trains operate daily between 5:00 AM and 1:00 AM. Approximately 137 trains pass the site on weekdays, and 126 trains pass the site on weekends. Of those trains, approximately 82-percent pass the site during daytime hours (between 7:00 AM and 10:00 PM), and 18-percent pass the site at night.⁵

APPLICABLE CRITERIA

Applicable noise and vibration guidelines for the project are provided by the City of San Jose General Plan, the City of San Jose Municipal Code, the California Building Code, and the Federal Transit Administration.

The City of San Jose General Plan

The Noise Element of the San Jose General Plan 2020 contains land use compatibility guidelines for environmental noise in the community. Table 1, below, summarizes these guidelines for residential and retail land uses.

Table 1 – Summary of Figure 16: Land Use Compatibility Guidelines for Community Noise

DNL Value in Decibels		Compatibility Level
Residential	Retail	
60 dB or less		Satisfactory
60 to 70 dB	60 to 76 dB	When new development requires a full EIR, an acoustical analysis should be made indicating amount of attenuation necessary to maintain an indoor level of DNL <=45. Onsite outdoor activity limited to acoustically protected areas. Existing uses should receive remedial treatment.
Greater than 70 dB	Greater than 76 dB	New development permitted only if uses are entirely indoors and building design limits interior levels to <=45 DNL. Onsite activity areas should be permitted if site planning and noise barriers can achieve levels of 60 DNL or less. Existing uses have top priority for remedial treatment.

The Noise Element defines short and long-range noise quality level goals for outdoor use areas. The City’s short and long-range goals are DNL 60 and 55 dB, respectively. However, the City acknowledges that it may not be possible to attain these levels in “special noise impact areas”, such as areas adjacent to major roadways, without eliminating the beneficial attributes of the exterior space.

Additionally, Policy 11 in the Noise Element states the following: “When located adjacent to existing or planned noise sensitive residential and

levels during the hours from 10 pm to 7 am are penalized 10 dB. A 10-dB increase in sound level is perceived by people to be twice as loud.

⁴ Figure 21, North San Jose Development Policies Update Program Draft EIR, March 2005

⁵ VTA Light Rail. *Schedule information*. July 25 2007. Available online at http://www.vta.org/schedules/SC_901.html#schedules. Last accessed October 11, 2007.

public/quasi-public land uses, non-residential land uses should mitigate noise generation to meet the 55 DNL guideline at the property line.”

City of San Jose Municipal Code

The Zoning Ordinance of the San Jose Municipal Code includes performance standards for the generation of noise at adjacent properties. In summary, noise generation is limited to 55 dB at residential property lines and 60 dB at commercial property lines.

California Building Code (CBC)

The California Building Code (CBC) contains acoustical requirements for interior sound levels in habitable rooms of multi-family housing⁶. In summary, the CBC requires that interior noise levels are no greater than DNL 45 dB due to exterior noise sources. Projects exposed to an exterior DNL greater than of 60 dB require an acoustical analysis during the design phase showing that the proposed design will limit exterior noise to the prescribed allowable interior level. Additionally, if windows must be closed to meet the interior standard, “the design for the structure must also specify a ventilation or air-conditioning system to provide a habitable interior environment.”

Federal Transit Administration (FTA)

A document entitled “Transit Noise and Vibration Impact Assessment”, published by the Federal Transit Administration (FTA) of the United States Department of Transportation in May of 2006, provides guidelines for levels of ground-borne vibration due to rail lines adjacent to various land uses. While the guidelines are generally intended to help assess the potential impact of new rail projects adjacent to existing land uses, they are frequently used to help assess the compatibility of new projects adjacent existing rail lines.

The VTA Light Rail schedule published online indicates that between 126 and 137 trains pass the site daily. This is consistent with the ground-borne vibration guidelines provided for frequently used rail corridors as follows:

1. Residences and buildings where people normally sleep – 72 VdB⁷
2. Institutional land uses with primarily daytime use – 75 VdB⁸

The document also states: “One of the problems in developing suitable criteria for ground-borne vibration is that there has been relatively little research into human response to vibration, in particular, human response to vibration in buildings.” For reference, the document identifies the threshold of perception for humans to be around 65 VdB.

⁶ Title 24, Part 2: California Building Code, Appendix Chapter 1208A

⁷ RMS Vibration Velocity Level in VdB relative to 10⁻⁶ inches/second.

⁸ Retail uses are not expected to include vibration-sensitive equipment such as microscopes, or other vibration-sensitive hospital, research, or manufacturing equipment.

ENVIRONMENTAL NOISE AND GROUND-BORNE VIBRATION ENVIRONMENT

Sources of environmental noise at the site include vehicle traffic on adjacent roadways, rail noise associated with the adjacent VTA Light Rail trains and station, and aircraft. Light Rail trains passing the site generate ground-borne vibration.

Noise Environment

To quantify the existing noise environment, three long-term measurements continuously logged sound pressure levels between the 8th and 12th of August 2007. Results were compared with measurements we had conducted at the site in January of 2006. Table 2 summarizes existing and estimated future DNL at the site. Estimated future noise levels are the basis of the noise mitigation recommendations in the Analysis and Recommendations section, below.

Table 2: Existing and Estimated Future Noise Levels at the Proposed Building Setbacks

Location	Existing DNL	Estimated Future DNL
Tasman Drive – Southern Building Facade (Approximately 100’ north of roadway centerline)	67 dBA	71 dBA
Baypointe Parkway – Northern and Western Building Facades (Approximately 40’ south of roadway centerline)	63 dBA	67 dBA
Eastern Portion of Site – Center of Eastern Building Facade (Approximately 275’ north of Tasman centerline)	60 ⁹ dBA	64 dBA
Central Courtyard (Assumes shielding from condominiums around the perimeter of the project)	N/A	60 dB or less

The City estimates that future peak hour traffic volumes along Tasman Drive will increase from 1,900 vehicles in 2007 to 4,500 vehicles in 2020. This corresponds with approximately a 4-decibel increase in traffic noise. The City was not able to provide traffic volume data for Baypointe Parkway. This analysis assumes a 4-decibel increase in traffic noise across the site.

Ground-Borne Vibration

As described above, VTA Light Rail tracks are located in the center of Tasman Drive adjacent to the site. Measurements were conducted at the site on the 13th of August 2007 to quantify typical ground-borne vibration levels from trains. Measurements were conducted at a location approximately 90 feet north of the roadway centerline¹⁰.

⁹ During the 6:00 AM hour on 9 August 2007, noise levels identified as lawn equipment influenced the measurement, raising the DNL for that 24-hour period to 62 dBA. Since this was atypical of the measurement period, the influence of the lawn equipment has been calculated out of the DNL shown in Table 2 above.

¹⁰ The proposed building setback is approximately 100 feet north of the centerline of Tasman Drive.

Measured maximum vibration levels were between 55 and 58 VdB. For reference, these levels are below the threshold of perception identified in the FTA document for most people.

ANALYSIS AND RECOMMENDATIONS

As indicated in Table 2 above, estimated future noise levels at the site range from DNL 60 dB or less in the shielded central courtyard to DNL 71 dB along Tasman Drive. Based on the site plan provided (shown in Figure 1), approximate building setbacks are 100 feet from the Tasman Drive centerline, and 40 feet from the Baypointe Parkway centerline. The project should mitigate interior noise levels to DNL 45 dB or less. Outdoor activity should be limited to acoustically protected areas or not allowed where the DNL exceeds 70 dB.

Exterior-to-Interior Noise

The interior noise standard in multi-family residential units is DNL 45 dB or less. To meet this criterion, it will be necessary for the exterior façade of some units to be sound-rated. Recommendations for sound-rated construction will depend on the size and type of rooms, windows, doors, and exterior facades, and should be determined during the design phase.

To provide you with an estimate of the extent of mitigation that may be necessary at this site, we have calculated preliminary window and door Sound Transmission Class¹¹ (STC) ratings assuming a typical room size of 12 feet by 14 feet with windows or doors occupying approximately 40% of the exterior wall area. For corner rooms, calculations assume an equal percentage of window or sliding glass door area will be located on each exterior façade.

Table 3: Preliminary Window and Door STC Ratings to Achieve Interior DNL 45 dB

Location	STC Rating to Achieve DNL 45 dB
Tasman Drive	STC 32*
Baypointe Parkway and Eastern Façade	STC 28*
Central Courtyard	Standard Dual-Pane

*Note: Sound insulation ratings at corner rooms are approximately 2 STC points higher.

It is important to note that sound insulation ratings are for the complete tested assembly, and not for glazing alone. Standard construction-grade dual-pane windows and sliding glass doors typically have sound insulation ratings in the range of STC 26 to 28. Therefore, calculations assume a minimum STC rating of 26.

¹¹ Sound Transmission Class (STC) — A single number used to compare walls, floor/ceiling assemblies, windows and doors for their sound insulating properties with respect to speech and small household appliance noise.

The CBC requires that where residential windows must be closed to achieve an interior DNL of 45 dB or less, the design must include a “ventilation or air-conditioning system to provide a habitable environment.” All residential units except those facing the shielded courtyard fall into this category. This issue should be discussed with the project mechanical engineer. Ventilation systems must not compromise the sound insulation of the exterior wall assemblies.

Exterior Noise Levels

The project design includes a third-floor central courtyard, and elevated balconies. Environmental noise levels will vary, depending on distance and exposure to transportation-related noise sources. The estimated future noise level in the shielded courtyard is DNL 60 dB or less. This is consistent with the City’s short-term goal for outdoor use spaces.

Estimated future environmental noise levels at elevated balconies will range from DNL 64 dB along the eastern façade to DNL 71 dB along Tasman Drive. It likely will not be feasible to meet the City’s outdoor noise goal of DNL 60 dB along Tasman Drive without fully enclosing balconies. Noise levels could be reduced to below DNL 70 dB for seated persons by incorporating partial-height noise barriers (approximately 42-inches tall). Barriers could be constructed from a variety of materials, should be solid from bottom to top with no cracks or gaps, and should have a minimum surface density of 3 pounds per square foot. Barrier details should be determined during the design phase.

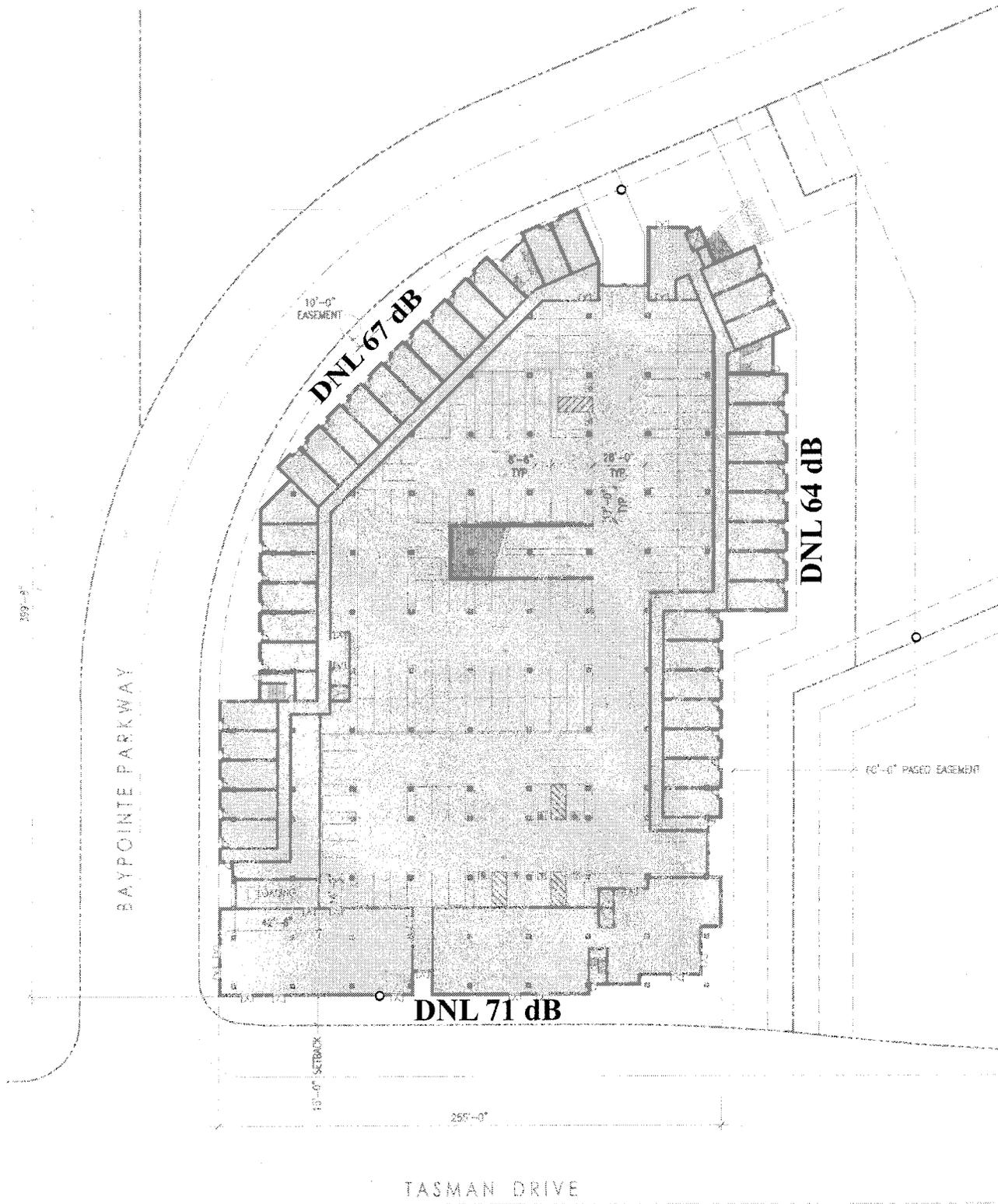
Stationary Noise Sources

The project should incorporate proper mitigation to reduce noise from air-conditioning units and other stationary equipment to the levels outlined in the General Plan and Zoning Ordinance. Mitigation may include equipment selection and location and, if necessary, equipment enclosures. Details of mitigation measures should be determined during the design phase.

Ground-Borne Vibration

The proposed building setback is approximately 100 feet north of the Tasman Drive centerline. As described above, ground-borne vibration measurements were conducted approximately 10 feet nearer to the tracks, where vibration levels are expected to be higher. Measured maximum vibration levels were below the threshold of perception for humans, and within the acceptable levels identified in the FTA guidelines for residential and retail uses. Therefore, no vibration mitigation measures are required. The location, schedule, and exposure to VTA Light Rail tracks should be disclosed to future residents and tenants.

* * *



○ INDICATES APPROXIMATE NOISE MEASUREMENT LOCATION
 NOTE: DRAWINGS PROVIDED BY OTHERS, NOT TO SCALE

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 FOR ACOSUTICAL DESIGN INFORMATION ONLY

**166 BAYPOINTE PARKWAY
 SITE PLAN INDICATING ESTIMATED
 FUTURE ENVIRONMENTAL NOISE LEVELS**

FIGURE 1

Project No. 07-0405
 JMR



MEMORANDUM

TO: Brian Pianca, Trammell Crow Residential

FROM: Brian Jackson, Steve Orem

DATE: October 18, 2007

SUBJECT: 166 Baypointe Parkway Residential Mixed-Use Development Traffic Operational Analysis

Hexagon Transportation Consultants, Inc. has completed a traffic operational analysis for a proposed residential mixed-use development at 166 Baypointe Parkway in San Jose, California. The 2.86-acre project site is located on the northeast corner of the Baypointe Parkway and Tasman Drive intersection. The project site currently consists of 53,000 square feet (s.f.) of vacant office space. The project proposes 40 residential townhouse units, 200 residential apartment units, and 4,000 s.f. of specialty retail space. One full access driveway on Baypointe Parkway and a right-turn only driveway off of Tasman Drive would provide access to the site.

Since the project is located within the North San Jose Area Development Policy (ADP) boundary, it is covered by the recently completed Environmental Impact Report (EIR) prepared for the North San Jose ADP. The project therefore is not required to prepare a Traffic Impact Analysis (TIA) report that includes a level of service analysis, since according to the North San Jose ADP EIR the project would conform to both the City of San Jose and the Santa Clara Valley Transportation Authority (VTA) Congestion Management Program (CMP) standards. The North San Jose ADP allows for the intensification of employment while also adding additional housing to balance land uses in the North San Jose area, which has generally been viewed as a major employment center for the City. The residential levels include development within and outside of North San Jose, though the majority would be located within North San Jose. With the additional housing located within the North San Jose area in close proximity to employment, it is expected that less of a demand will be placed on regional transportation facilities.

The purpose of this study is to satisfy the City's requirement for a traffic operational analysis, and to evaluate the existing street system to insure that it will provide adequate access to the site. The analysis consists of an evaluation of weekday AM and PM peak hour conditions of site access, on-site circulation, and the surrounding street system. Projections of vehicle queuing at the proposed driveway locations and an evaluation of pedestrian/vehicular interaction also were performed. Left-turn vehicle queuing also was evaluated at the following intersections.

Zanker Road and Baypointe Parkway
Zanker Road and Tasman Drive
Baypointe Parkway and Tasman Drive

The project site location and study intersections are shown on Figure 1.



LEGEND

 = Project Site

 = Study Intersection

Figure 1

SITE LOCATION AND STUDY INTERSECTIONS

166 Baypointe Parkway



Existing Conditions

With the development of the project, the existing roadway system in the immediate vicinity of the site would remain unchanged from its existing configuration. Zanker Road is a six-lane north-south roadway. Baypointe Parkway is a two-lane north-south oriented roadway with a two-way center left-turn lane. Tasman Drive is a four-lane east-west roadway with the Alum Rock to Santa Teresa Light Rail line running within the median.

Existing Bicycle, Pedestrian, and Transit Networks

Sidewalks are present along both sides of Baypointe Parkway, Zanker Road, and Tasman Drive. Pedestrian crosswalks are present at the three study intersections. Each crosswalk has pedestrian pushbuttons, pedestrian signal heads, and wheelchair-accessible ramps. The Baypointe Parkway and Tasman Drive intersection has pedestrian crosswalks on the north, south, and west legs of the intersection only. There are no countdown indicators at this intersection.

Bike lanes (Figure 2) are striped in the northbound and southbound directions of travel on Zanker Road north and south of Tasman Drive. They are also present in the eastbound and westbound lanes on Tasman Drive east and west of Zanker Road. There are no bike lanes on Baypointe Parkway.

Existing transit service to the study area consists of light rail and bus transit provided by VTA (see Figure 3). Transit services in the project area are described below.

The Baypointe light rail transit (LRT) station is located at the intersection of Baypointe Parkway and Tasman Drive. It provides access to the Alum Rock-Santa Teresa Line (Route 901), which operates between 5:00 AM and 1:00 AM with 15 minute headways northbound and southbound during commute hours. The Tasman Station is located approximately one-half mile from the site, at the First Street/Tasman Drive intersection. It provides access to Route 901 and Route 902 (Mountain View-Winchester). The Mountain View-Winchester Line operates between 5:00 AM and 12:00 AM with 15 minute headways northbound and southbound during commute hours.

There are several bus stops near the project site. Bus routes on Tasman Drive are accessed by bus stops in the eastbound and westbound directions on Tasman Drive in front of the site, adjacent to the Zanker Road/Tasman Drive intersection and north and south of the Baypointe light rail station.

Route 33 runs past the site southbound on Zanker Road and westbound on Tasman Drive on its route that connects the site area to Milpitas and the Great Mall/Main Transit Center. Headways are approximately 30 minutes during the AM and PM peak commute periods.

Route 58 runs northbound on Zanker Road and westbound on Tasman Drive past the project site. It connects Saratoga and West Valley College to the site area and to Alviso to the north. Headways are approximately 30 minutes during the AM and PM peak commute periods.

Express Route 140 runs by the project site on Tasman Drive. It connects the Fremont Bart Station to the Great Mall/Main Transit Station, the Great America Station, and the Sunnyvale Caltrain Transit Center. Headways are approximately 35 minutes southbound in the morning and 45 minutes northbound in the afternoon.



LEGEND

-  = Project Site
-  = Existing Bike Lanes
-  = Existing Bike Path

Figure 2

EXISTING BICYCLE FACILITIES

166 Baypointe Parkway



The Limited Stop Route 330 runs across Tasman Drive as part of its route connecting Almaden Expressway and Camden Avenue in South San Jose to North San Jose and the I-880/Milpitas LRT Station with the Baypointe and Tasman LRT Stations as well as the Great America Station. Headways are approximately 50 minutes northbound in the morning and southbound in the afternoon.

The ACE Shuttle for West Milpitas (Route 825) runs on Tasman Drive eastbound from 6:30 AM to 9:00 AM and westbound from 3:30 PM to 5:30 PM with 65 to 75 minute headways during the peak commute hours.

Existing Levels of Service

Existing traffic volumes at the study intersections were obtained from the City of San Jose and new traffic counts conducted in March of 2007. Level of service calculation results were evaluated using TRAFFIX analysis software (Ver. 7.9 R1). The results of the level of service analysis under existing conditions are summarized below in Table 1.

The results show that, measured against City of San Jose standards, all of the study intersections currently operate at acceptable levels of service (LOS D or better) during both the AM and PM peak hours of traffic.

**Table 1
 Existing Intersection Levels of Service**

Intersection	Peak Hour	Count Date	Existing	
			Ave. Delay	LOS
Zanker Rd and Baypointe Pkwy	AM	10/19/2005	4.5	A
	PM	10/19/2005	8.2	A
Zanker Rd and Tasman Dr	AM	3/22/2007	35.2	D
	PM	3/22/2007	42.5	D
Baypointe Pkwy and Tasman Dr	AM	3/22/2007	8.7	A
	PM	3/22/2007	8.8	A

Project Conditions

The project would consist of 240 residential units and 4,000 s.f. of retail space. Access to the site would be provided via a new full access driveway on Baypointe Parkway and a right-turn only driveway off of Tasman Drive.

Trip Generation

The magnitude of traffic generated by the proposed project was estimated by applying to the size of the development the applicable trip generation rates recommended by the City of San Jose *Interim Guidelines for Traffic Impact Analysis of Land Developments*, June 1994. Since the project site is located within 2,000 feet of an LRT station, the total number of trips generated by buildout of the project can be reduced by 9 percent to account for transit ridership, according to the *Congestion Management Program TIA Guidelines*. A



mixed-use trip reduction also was applied to account for internalization of trips due to the interaction between the residential and retail components of the project. It is estimated that the project will generate a net 138 AM peak hour trips (49 inbound trips and 89 outbound trips) and a net 142 PM peak hour trips (91 inbound trips and 51 outbound trips). The trip generation estimates, including all applicable trip reductions, are presented in Table 2.

The net project trip estimates include retail pass-by trips. Pass-by trips are trips that already pass directly by the project site and upon completion of the project would stop at the project site while en route to their ultimate destination. The proportion of pass-by trips generated by the proposed project was estimated based on data obtained from the City of San Jose. For retail uses the proportion of pass-by trips comprise an average of 25% of the site-generated PM peak hour traffic.

**Table 2
 Project Trip Generation Estimates**

Land Use	Size	Daily Rate /a/	Daily Trips	AM Peak Hour			PM Peak Hour				
				Pk-Hr Factor	In	Out	Total	Pk-Hr Factor	In	Out	Total
Townhouses	40 units	7.5	300	0.10	11	19	30	0.10	19	11	30
Apartments	200 units	6.0	1,200	0.10	42	78	120	0.10	78	42	120
Specialty Retail	4,000 s.f.	40.0	160	0.02	2	1	3	0.09	7	7	14
<i>Pass-by Reduction /b/</i>									-2	-2	-4
<i>Mixed-Use Internalized Reduction /c/</i>			-42		-1	0	-1		-2	-2	-4
<i>Transit Reduction (residential only) /d/</i>			-135		-5	-9	-14		-9	-5	-14
Total Net Trips:			1,483		49	89	138		91	51	142

Notes:

/a/ Rate per unit for residential use; per 1,000 s.f. for retail use.

/b/ A reduction of 25% was applied to the retail use during the PM peak hour.

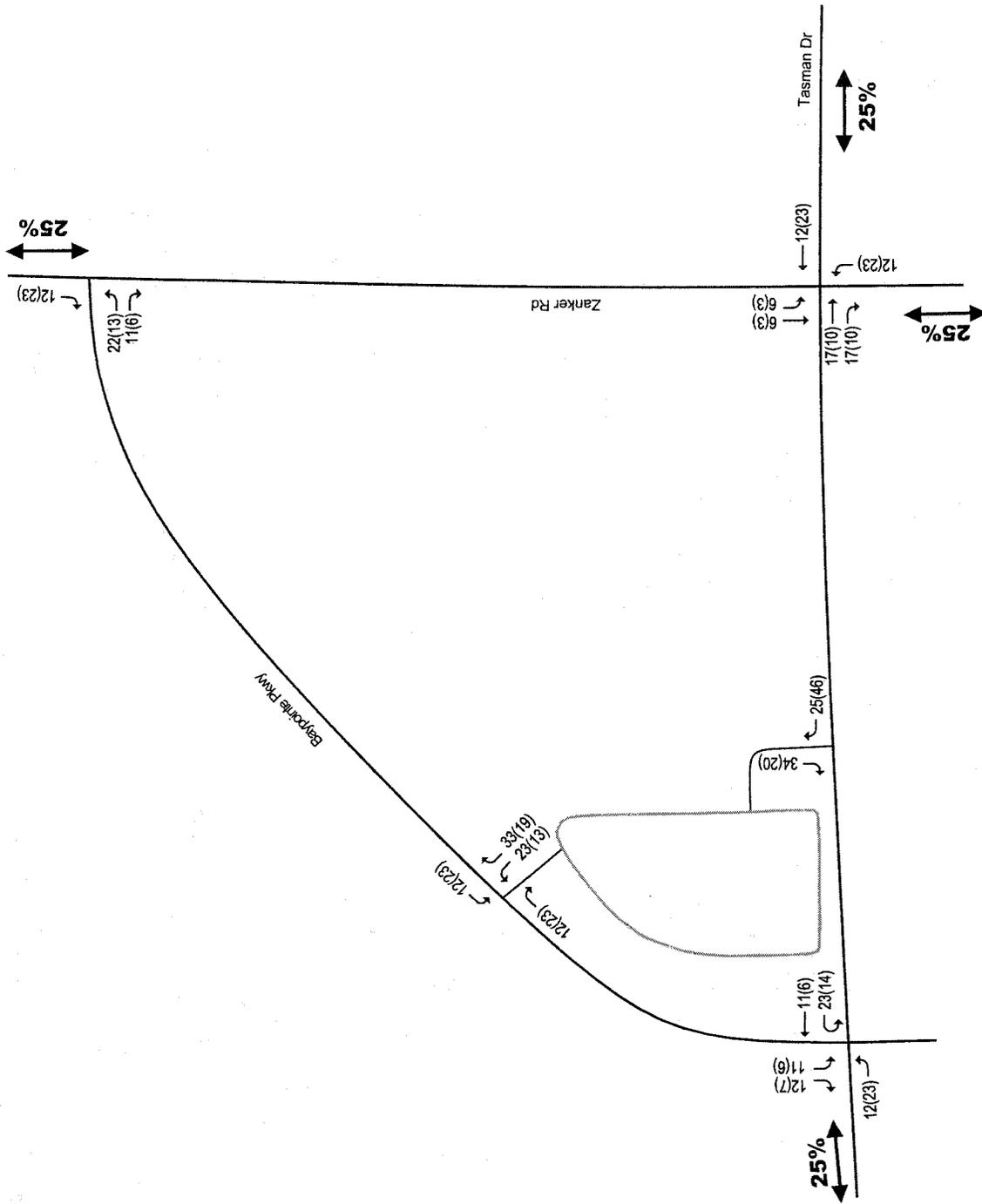
/c/ Based on the *Congestion Management Program TIA Guidelines*, a maximum 13% reduction was applied since the project is a mixed-use development with housing and retail components. The 13% reduction was applied to the smaller of the two generators (retail component). The trips generated by the larger generator (residential component) were reduced by the same number of trips reduced for the smaller trip generator.

/d/ Based on the *Congestion Management Program TIA Guidelines*, a transit reduction of 9% was applied to the proposed residential component of the project, since the site is located within 2,000 feet (walking distance) of an LRT station.

Source: City of San Jose Interim Guidelines for Traffic Impact Analysis for Land Developments, "Common Vehicular Trip Generation Rates for the San Jose Area," March 1994.

Trip Distribution and Assignment

The trip distribution pattern for the proposed residential mixed-use development was estimated based on existing travel patterns on the surrounding roadway system and the locations of complementary land uses. The peak hour trips generated by the proposed residential and retail uses were assigned to the surrounding roadway network in accordance with the trip distribution pattern. Figure 4 shows the project trip distribution pattern and the net project trip assignment. The directions of approach and departure of PM pass-by trips were estimated based on the existing travel patterns in the area. Pass-by trips on Tasman Drive and Zanker Road already travel by the project site and would merely turn in and out of the project before proceeding on to their destination. Thus, pass-by trips do not represent new trips at any of the study intersections. Figure 5 shows the traffic volumes at the study intersections and project driveways under project conditions.



LEGEND

-  = Project Site
- XX(XX)** = AM(PM) Peak-Hour Traffic Volumes
-  Hexagon Transportation Consultants, Inc.

Figure 4

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

166 Baypointe Parkway

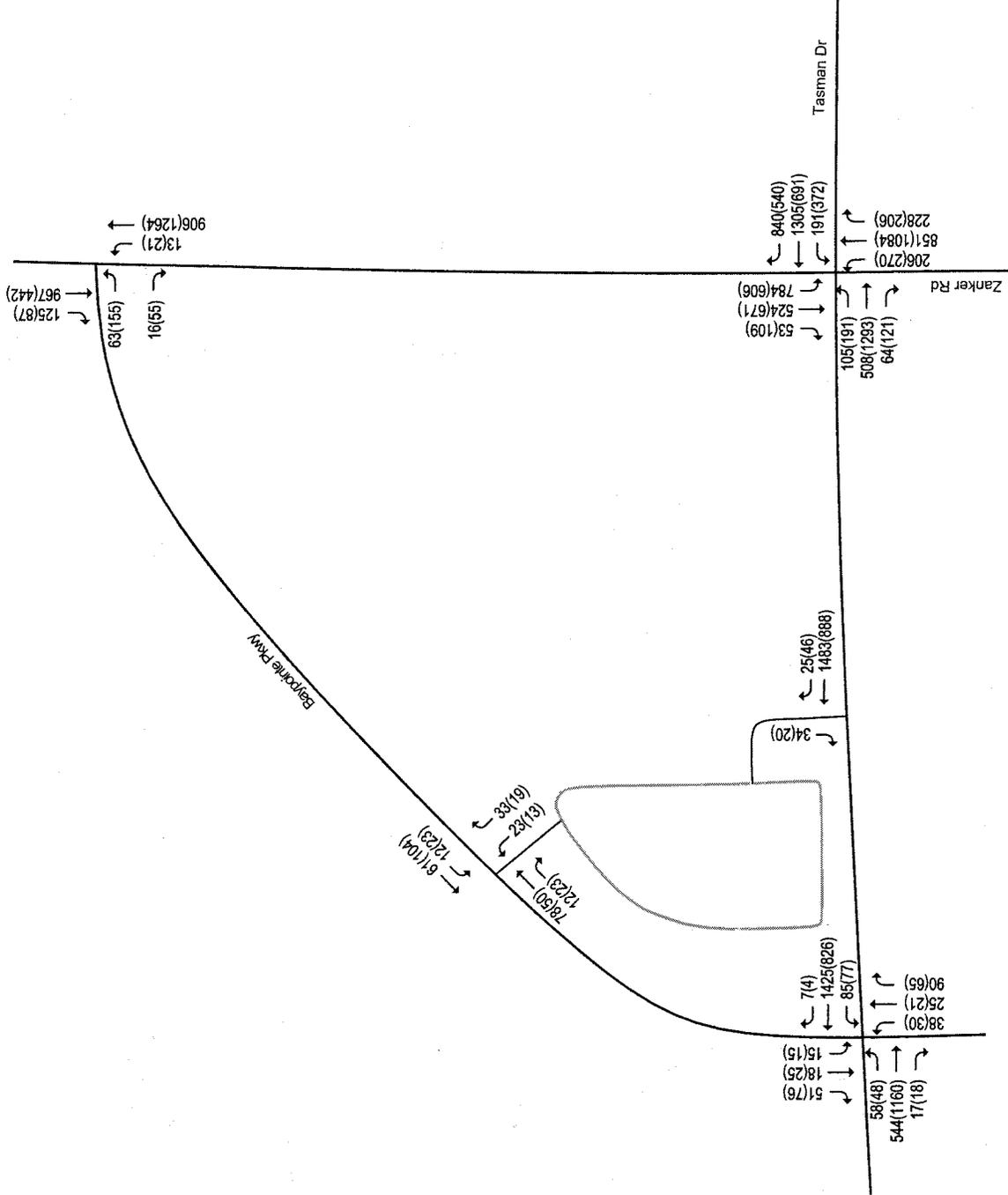


Figure 5

PROJECT CONDITIONS TRAFFIC VOLUMES

166 Baypointe Parkway

Hexagon
Transportation Consultants, Inc.



Project Intersection Levels of Service

As previously stated, the project is located within the North San Jose Area Development Policy (ADP) boundary. Consequently, all major intersections in the vicinity of the proposed residential mixed-use development are covered by the intersection level of service analysis contained in the recently completed Environmental Impact Report (EIR) prepared for the North San Jose ADP. Of the three intersections included in this operations analysis, the intersection of Zanker Road and Tasman Drive is the only major intersection located near the project site that was evaluated for level of service in the North San Jose ADP EIR. For the intersection of Zanker Road and Tasman Drive, the levels of service reported for this intersection in the North San Jose EIR are LOS D and LOS E under the North San Jose buildout conditions during the AM and PM peak hours, respectively.

Background improvements to the Zanker Road and Tasman Drive intersection are planned to be constructed as a City Capitol Improvement Program (CIP) project. The improvements include widening Zanker Road to six lanes and adding second northbound and southbound left-turn lanes. Since the North San Jose ADP project was found to significantly impact this intersection, improvements were proposed as part of the North San Jose ADP. The ADP intersection improvements include adding second eastbound and westbound left-turn lanes on Tasman Drive. The proposed improvements would not be adequate to improve intersection level of service to acceptable levels. However, since no further improvements are possible beyond those described above, the North San Jose ADP project impact was found to be significant and unavoidable.

The need for specific intersection improvements during each phase (one through four) of the North San Jose ADP development was determined based on level of service calculations. Each impacted intersection was evaluated to determine during which development phase the addition of North San Jose ADP project traffic would cause the intersection to be significantly impacted. Based on the level of service calculations contained in the EIR, improvements to the Zanker Road and Tasman Drive intersection would be necessary with Phase 3 of the North San Jose ADP project. It is not known at this time exactly when Phase 3 of the North San Jose ADP development will occur.

The other two study intersections – Zanker Road/Baypointe Parkway and Tasman Drive/Baypointe Parkway – are minor intersections that would experience much lower traffic volumes than the Zanker Road and Tasman Drive intersection. Consequently, they were not analyzed for level of service in the North San Jose EIR. For this reason, the levels of service at these two intersections under the North San Jose buildout conditions are not reported in this operations analysis.

Project Intersection Queuing Analysis

Intersection left-turn movements to which a project would add traffic typically are evaluated to determine whether or not the existing left-turn pockets would be adequate to serve the estimated vehicle queue lengths. This analysis incorporated trips generated by this project, as well as the trips from two adjacent and concurrent projects in order to provide a more thorough estimate of the left-turn queuing conditions that would occur under project conditions. One of these project sites is located on the north side of Baypointe Parkway and would consist of replacing a 40,214 s.f. office building with 184 residential dwelling units. The other project site, located adjacent to and east of the proposed project, would consist of replacing 120,328 s.f. of office space with 704 residential units and up to 20,000 s.f. of retail space.

The results of the vehicle queuing analysis are shown in Table 3. The results indicate that under cumulative project conditions that include the nearby planned projects' trips, the left-turn vehicle storage would be adequate at every left-turn pocket to which the proposed projects would add traffic with the exception of the northbound left-turn pocket at Zanker Road and Tasman Drive, which was estimated to have a vehicle storage inadequacy of 50 feet under cumulative project traffic conditions. For the purpose of the queuing



Mr. Brian Pianca
October 18, 2007
166 Baypointe Parkway
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analysis it was estimated that this future dual left-turn pocket, which is planned to be constructed as a City CIP project, would be the same length as the existing single left-turn pocket. However, according to the City of San Jose, the design of the planned improvements to this intersection will incorporate ample northbound and southbound left-turn pocket storage. Therefore, it can be concluded that the northbound left-turn pocket would have adequate vehicle storage capacity under cumulative project traffic conditions. The proposed project (located at 166 Baypointe Parkway) would not be required to construct or contribute toward the planned intersection improvements.

Site Access and On-Site Circulation

This section describes site access and circulation for the proposed project. The site review is based on the site plan dated October 5, 2007, portions of which are shown on Figures 6A and 6B. The site access analysis includes a discussion of the operations at each project driveway. Additionally, on-site circulation of vehicles and pedestrians was evaluated.

Site Access

The site plan proposes one full access driveway on the northern portion of the site on Baypointe Parkway. The project also would have access via a right-turn only driveway on the southeast portion of the site on Tasman Drive. The two project driveways would provide access to the two-level parking garage structure.

Driveway Locations

The southeast garage access driveway would be located approximately 80 feet north of Tasman Drive on a planned paseo. The paseo driveway would provide right-turn only access to and from westbound Tasman Drive, about 270 feet east of the Baypointe Parkway intersection. The northern project driveway, located on Baypointe Parkway approximately 50 feet west of the adjacent paseo easement, would provide full access to and from the parking garage.

Project Driveway Operations

Adequate storage must be provided at all project driveways to (1) allow exiting vehicles to not block parking stalls, and (2) prevent entering vehicles from making sudden stops (due to vehicles backing out or entering stalls) and spilling back into the public street. A queuing analysis was conducted to estimate the projected maximum queues for the project driveways.

Planned Paseo Driveway

A new paseo is planned adjacent to the project site on the east. The paseo driveway would be located approximately 270 feet east of the Baypoint Parkway and Tasman Drive intersection and would provide right-turn only access to and from westbound Tasman Drive. Since the paseo driveway would be shared with the adjacent property to the east, the total volume from both projects was taken into account for the purpose of calculating the cumulative outbound vehicle queues. The queuing analysis indicates that the maximum outbound queues at the new paseo driveway would be about two vehicles during the AM peak hour. The 80-foot throat length of the paseo driveway would be adequate to serve this estimated maximum outbound vehicle queue length.



Table 3
Vehicle Queuing at Study Intersections

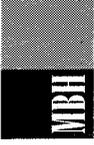
Measurement	Zanker / Tasman NBL		Zanker / Tasman SBL		Zanker / Tasman EBL		Baypointe / Tasman SBL		Baypointe / Tasman EBL		Baypointe / Tasman WBL		Baypointe / Zanker EBL		Baypointe / Zanker NBL	
	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM
Cycle/Delay (sec)	125	125	125	100	100	100	100	100	100	100	100	100	100	100	100	100
Volume (vphpl)	128	416	67	54	79	158	131	131	131	131	131	131	131	131	131	26
Avg. Queue (veh/ln.)	4.4	14.4	2.3	1.5	2.2	4.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.7
Avg. Queue (ft./ln)	111	361	58	38	54.9	110	91	91	91	91	91	91	91	91	91	18
95th % Queue (veh/ln.)	8	21	5	4	5	8	7	7	7	7	7	7	7	7	7	2
95th % Queue (ft./ln)	200	525	125	100	125	200	175	175	175	175	175	175	175	175	175	50
Storage (ft./ln.)	250	525	250	125	200	200	150	150	150	150	150	150	150	150	150	250
Adequate (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Measurement	PM		PM		PM		PM		PM		PM		PM			
	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM		
Cycle/Delay (sec)	141	141	141	100	100	100	100	100	100	100	100	100	100	100	100	100
Volume (vphpl)	184	321	123	32	90	119	44	44	44	44	44	44	44	44	44	44
Avg. Queue (veh/ln.)	7.2	12.6	4.8	0.9	2.5	3.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Avg. Queue (ft./ln)	180	314	120	22	63	83	31	31	31	31	31	31	31	31	31	31
95th % Queue (veh/ln.)	12	19	9	3	5	7	3	3	3	3	3	3	3	3	3	3
95th % Queue (ft./ln)	300	475	225	75	125	175	75	75	75	75	75	75	75	75	75	75
Storage (ft./ln.)	250	525	250	125	200	200	150	150	150	150	150	150	150	150	150	250
Adequate (Y/N)	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

¹ Vehicle queue calculations based on cycle length for signalized intersections.

² Assumes 25 Feet Per Vehicle Queued

³ Although the striping provides for only 140 feet of vehicle storage, the two-way center left-turn lane would provide additional storage for any overflow.



3000 WILSON AVENUE
SUITE 200
SAN JOSE, CA 95128



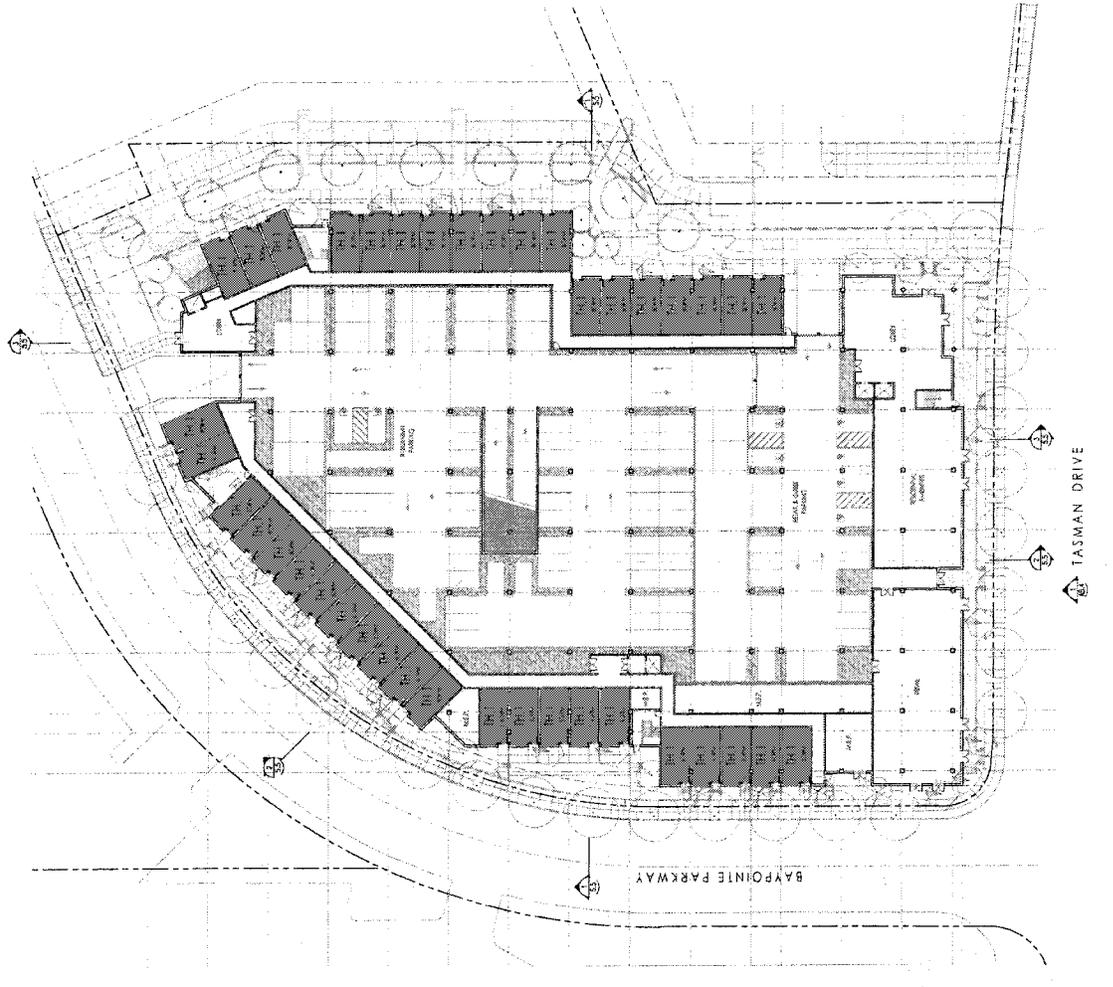
GROUND FLOOR PLAN

166 BAYPONTE PARKWAY
SAN JOSE, CALIFORNIA

DATE: 12/15/11
SCALE: AS SHOWN
PROJECT: 166 BAYPONTE PARKWAY
SHEET: 5.1

SCALE: 1/8" = 1'-0"

5.1



GROUND FLOOR PLAN

Figure 6A

PROJECT SITE PLAN GROUND FLOOR PARKING

166 Baypointe Parkway



MEMBER OF THE
CANNON DESIGN GROUP

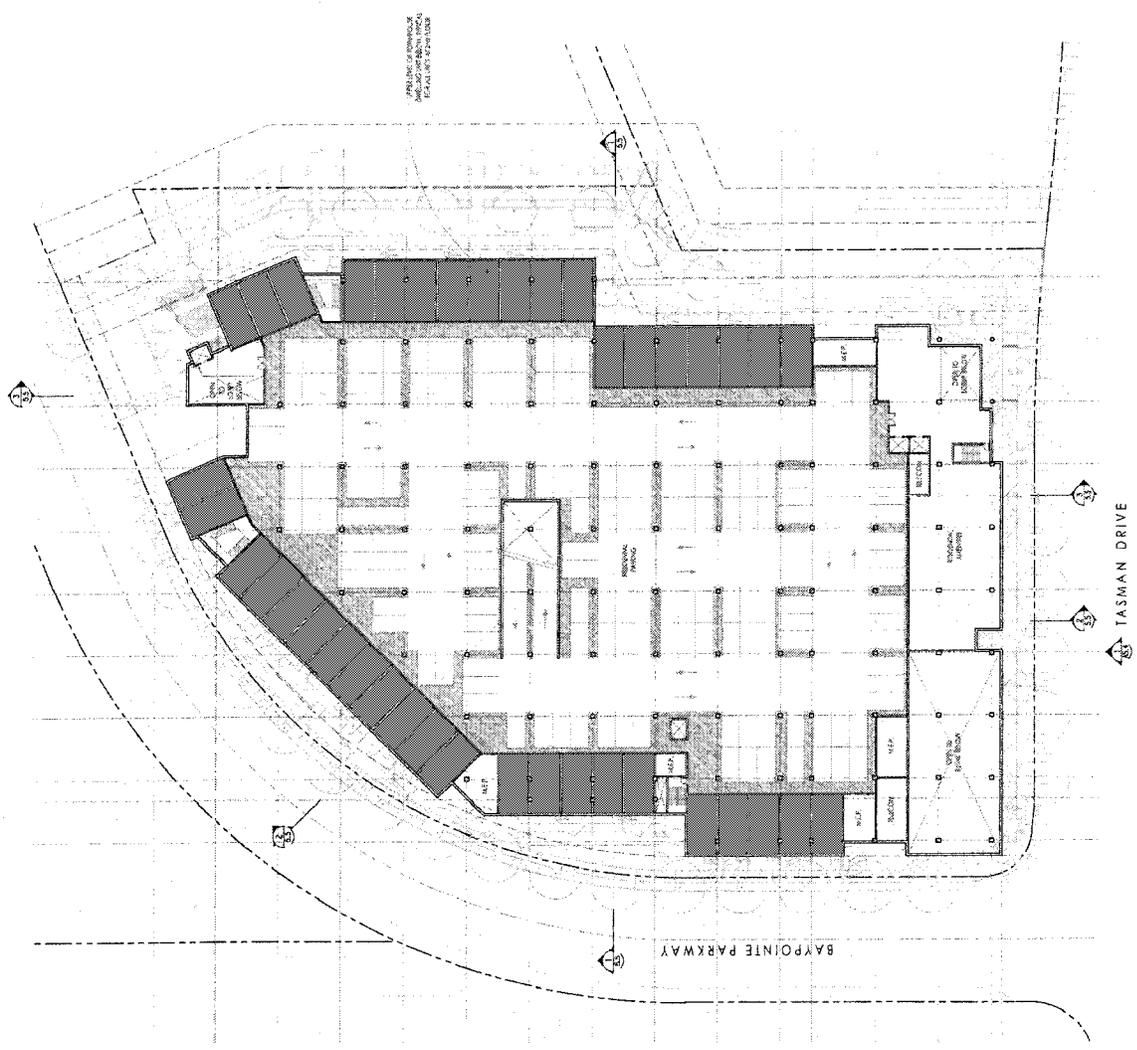


2nd FLOOR PLAN
166 BAYPONTE PARKWAY
SAN JOSE, CALIFORNIA

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DATE: 05/11/11
BY: J. W. WILSON
PROJECT NO.: 100-1000-010

5.2



2nd FLOOR PLAN | 1

Figure 6B

PROJECT SITE PLAN SECOND FLOOR PARKING

166 Baypointe Parkway



Southeast Garage Access Driveway

The proposed driveway on the southeast portion of the site would provide access to the project's parking garage via the planned paseo. The southeast garage access driveway would have a throat width of 21 feet and a throat length of approximately 50 feet. The project garage access driveway width meets the City of San Jose standard (20-foot minimum width) for residential access (City of San Jose *Residential Design Guidelines*, April 1999). The security gate at this garage entry would remain open during the day to serve guests of the residential development and customers of the retail uses, and would be closed at night. Inbound vehicle queuing at this driveway is estimated to be two vehicles in the worst case 95th percentile queue condition, and the throat length would be adequate to serve this maximum inbound queue length. The outbound vehicle queue at this driveway is estimated to be only one or two vehicles when the gate is closed. An internal security gate, which would separate the guest/customer parking from the assigned resident parking, would be closed during the day and open at night when the outer gate is closed. Adequate clearance exists within the garage at this entrance to prevent conflicts between vehicles entering, exiting vehicles and vehicles maneuvering within the parking garage.

North Garage Access Driveway

A proposed driveway on the north portion of the site, located on Baypointe Parkway approximately 50 feet west of the paseo easement, also would provide access to the project's parking garage. The north garage access driveway would have a throat width of 21 feet and a throat length of approximately 60 feet. The garage access driveway would operate with little delay due to the relatively low traffic volumes on Baypointe Parkway. The project garage access driveway width meets the City of San Jose standard. This garage entry would be gated and would provide access to residents of the new development only. The outbound vehicle queue at this driveway is estimated to be only one or two vehicles due to the gate operation. Inbound vehicle queuing at this driveway is estimated to be two vehicles in the worst case 95th percentile queue condition, and the throat length would be adequate to serve this maximum queue length. The long driveway throat would prevent vehicle queues from backing up onto Baypointe Parkway or stacking within the shared two-way center left-turn lane. Adequate clearance exists within the garage at this entrance to prevent conflicts between vehicles entering, exiting vehicles and vehicles maneuvering within the parking garage.

The north garage access driveway is located at the end of the curve on Baypointe Parkway. The location of the driveway and angle of the proposed building would provide approximately 280 feet of stopping sight distance for vehicles traveling northbound on Baypointe Parkway and approaching the north driveway (see Figure 7). The Caltrans required stopping sight distance for vehicles traveling at 35 miles per hour (mph) is 253 feet. Thus, the stopping sight distance at the north driveway would be adequate to provide safe conditions for vehicles traveling northbound on Baypointe Parkway and vehicles exiting the north driveway.

All of the project driveways should be free and clear of any obstructions. Any landscaping and signage along the project frontage should be located in such a way to ensure an unobstructed view for drivers exiting the site. Parking currently is not permitted on Baypointe Parkway or Tasman Drive and it is recommended that this condition remain with the project to ensure that exiting vehicles can see pedestrians on the sidewalk, as well as other vehicles traveling on Baypointe Parkway.

Emergency Vehicle Access

Based on the truck turning template analysis, adequate emergency vehicle access would be provided on Baypointe Parkway and Tasman Drive, and along the 60-foot easement on the east side of the property.

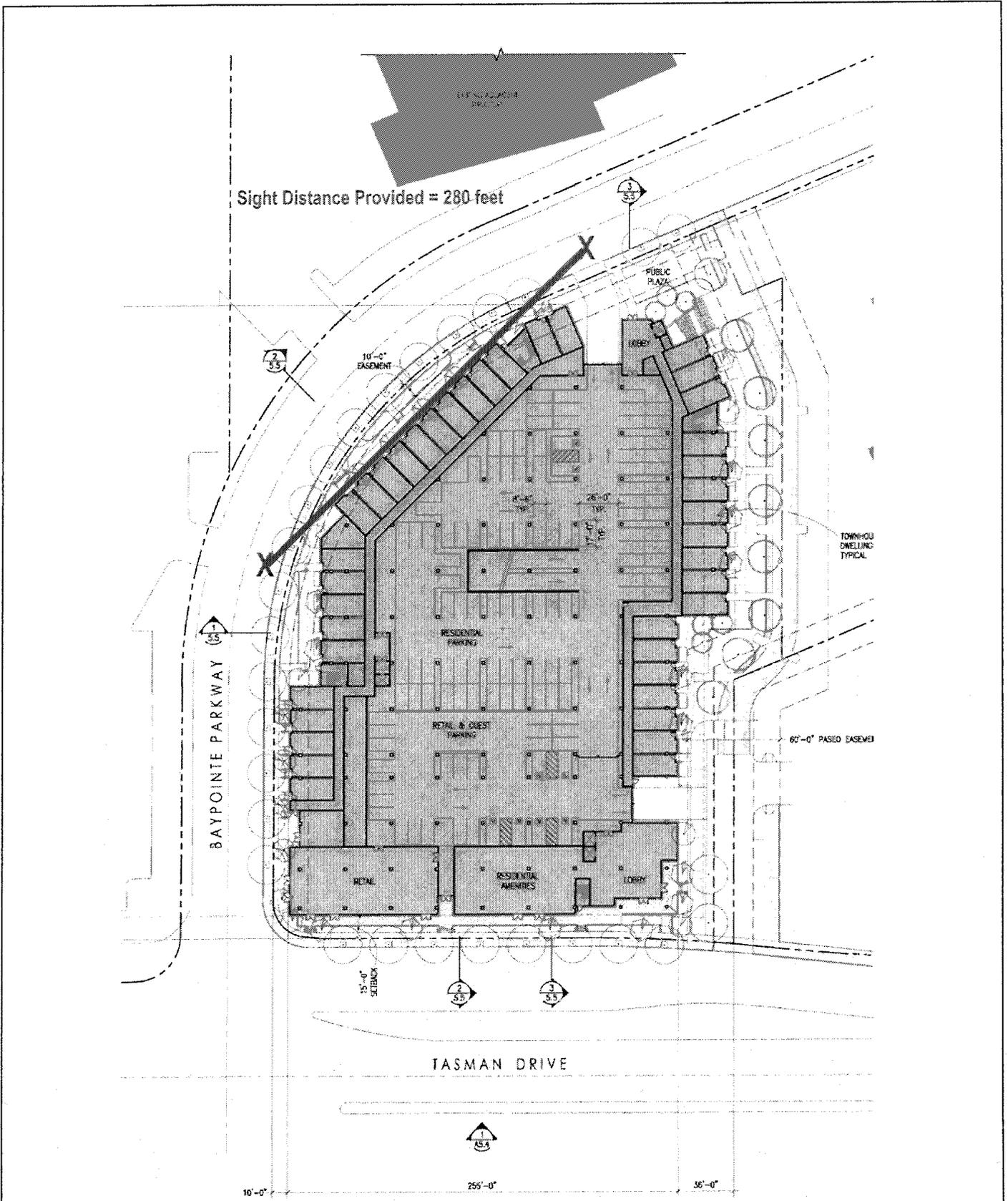


Figure 7

PROJECT NORTH DRIVEWAY SIGHT DISTANCE



On-Site Circulation

The project is proposing a two-level above-grade parking garage. The garage would be accessed via the two gated garage access driveways previously discussed. A single ramp with one lane in each direction would connect the ground level with the second floor level. All parking would be 90-degree spaces. All aisle widths would be 26 feet, which would meet the City's standard where 90-degree parking is provided.

Both garage levels would contain dead-end drive aisles. In general, dead-ends are undesirable in garages with open parking because drivers can enter the aisle, and upon discovering that there is no available parking, must either back out or conduct three-point turns. In areas with assigned parking spaces, dead-end aisles typically are not problematic. However, in each of these dead-end instances there are parking spaces that would be very difficult to maneuver in and out of. Thus, the architect should consider redesigning the parking garage in order to eliminate these types of spaces. On the ground floor, the dead-end aisle behind the ramp has three spaces at the north end of the aisle and one adjacent space to the east that would make it difficult for drivers to back out. Also on the ground floor, the dead-end aisle north of the ramp has one space at the west end of the aisle and one adjacent space to the south where the same problem would occur. On the second floor the problem spaces include the two spaces at the end of the long north-south dead-end aisle south of the ramp, the three spaces at the end of the north-south dead-end aisle at the north end of the garage, and the two spaces at the end of the east-west dead-end aisle located north of the ramp. Thus, the total number of problem parking spaces is 13.

Pedestrian Circulation

There currently is a limited amount of pedestrian activity in this mostly industrial area. However, with the addition of this and other proposed residential development projects in the area an increase in pedestrian activity is anticipated. The addition of residential uses with supporting retail uses in the North San Jose area will create more pedestrian and bicycle activity between complimentary land uses. Currently there is good connectivity to Moitozo Park, located in a residential area approximately one-half mile south of the project site. The majority of roadways in the project area have sidewalks on both sides of the street, with crosswalks and pedestrian signal heads at the intersections. The extensive network of sidewalks in the study area would provide residents with a safe connection between the project site and other surrounding land uses in the area.

Site Access and Circulation Recommendations

Based on the site plan evaluation, the following recommendations to ensure good site access and on-site circulation were identified:

- Any landscaping and signage along the project frontages should be placed in such a way to ensure an unobstructed view for drivers exiting the site driveways.
- Redesign the garage parking so as to eliminate the problem spaces at the ends of the dead-end drive aisles. The City ultimately will determine the adequacy of parking space supply and access. The City reviews each new project on a case-by-case basis.
- Designate a loading area suitable for the truck category WB 40.
- Designate waste disposal and removal areas suitable for garbage trucks (truck category SU 30).

