

	GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII				Log of DCP 101	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	9.5	9.5	0.4		9.5	9.8	31	
1	14.0	14.0	0.6		4.5	6.8	45	
1	16.2	16.2	0.6		2.2	4.9	63	
1	20.2	20.2	0.8		4.0	6.5	47	
1	22.1	22.1	0.9		1.9	4.5	67	
1	25.5	25.5	1.0		3.4	6.0	51	
1	28.3	28.3	1.1		2.8	5.5	56	
1	31.4	31.4	1.2		3.1	5.7	53	
1	35.1	35.1	1.4		3.7	6.2	49	
1	38.0	38.0	1.5		2.9	5.5	55	
1	40.0	40.0	1.6		2.0	4.6	66	
1	43.7	43.7	1.7		3.7	6.2	49	
1	45.6	45.6	1.8		1.9	4.5	67	
1	49.4	49.4	1.9		3.8	6.3	48	
1	53.3	53.3	2.1		3.9	6.4	48	
1	55.1	55.1	2.2		1.8	4.4	69	
1	58.1	58.1	2.3		3.0	5.6	54	
1	60.3	60.3	2.4		2.2	4.9	63	
1	62.3	62.3	2.5		2.0	4.6	66	
1	65.6	65.6	2.6		3.3	5.9	52	
1	66.3	66.3	2.6		0.7	2.8	108	
1	67.1	67.1	2.6		0.8	3.0	102	
1	69.1	69.1	2.7		2.0	4.6	66	
1	70.5	70.5	2.8		1.4	3.9	78	
1	72.9	72.9	2.9		2.4	5.1	60	
1	74.0	74.0	2.9		1.1	3.5	87	
1	76.5	76.5	3.0		2.5	5.2	59	
1	77.8	77.8	3.1		1.3	3.8	81	
1	79.5	79.5	3.1		1.7	4.3	71	
1	80.9	80.9	3.2		1.4	3.9	78	
1	84.4	84.4	3.3		3.5	6.1	50	
1	86.5	86.5	3.4		2.1	4.8	64	
1	88.9	88.9	3.5		2.4	5.1	60	
1	91.8	91.8	3.6		2.9	5.5	55	
1	93.8	93.8	3.7		2.0	4.6	66	
1	96.4	96.4	3.8		2.6	5.3	58	
Date Started:		1/14/2019	Water Level:		Not Encountered			Plate B-1.00
Date Completed:		1/14/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.4'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

	GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII				Log of DCP 101
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	99.4	99.4	3.9		3.0	5.6	54
1	102.4	102.4	4.0		3.0	5.6	54
1	104.2	104.2	4.1		1.8	4.4	69
1	107.0	107.0	4.2		2.8	5.5	56
1	108.6	108.6	4.3		1.6	4.2	73
1	111.2	111.2	4.4		2.6	5.3	58
1	113.6	113.6	4.5		2.4	5.1	60
1	117.1	117.1	4.6		3.5	6.1	50
1	118.6	118.6	4.7		1.5	4.0	75
1	120.5	120.5	4.7		1.9	4.5	67
1	121.1	121.1	4.8		0.6	2.6	117
1	122.8	122.8	4.8		1.7	4.3	71
1	124.3	124.3	4.9		1.5	4.0	75
1	125.1	125.1	4.9		0.8	3.0	102
1	125.9	125.9	5.0		0.8	3.0	102
1	127.4	127.4	5.0		1.5	4.0	75
1	127.9	127.9	5.0		0.5	2.4	127
1	128.4	128.4	5.1		0.5	2.4	127
1	130.3	130.3	5.1		1.9	4.5	67
1	132.0	132.0	5.2		1.7	4.3	71
1	132.1	132.1	5.2		0.1	1.1	274
1	133.1	133.1	5.2		1.0	3.3	91
1	133.2	133.2	5.2		0.1	1.1	274
1	133.6	133.6	5.3		0.4	2.2	141
1	135.5	135.5	5.3		1.9	4.5	67
1	136.3	136.3	5.4		0.8	3.0	102
1	136.8	136.8	5.4		0.5	2.4	127
1	137.3	137.3	5.4		0.5	2.4	127
1	138.0	138.0	5.4		0.7	2.8	108
1	138.7	138.7	5.5		0.7	2.8	108
1	139.6	139.6	5.5		0.9	3.2	96
1	140.4	140.4	5.5		0.8	3.0	102
1	141.8	141.8	5.6		1.4	3.9	78
1	142.5	142.5	5.6		0.7	2.8	108
1	143.6	143.6	5.7		1.1	3.5	87
1	144.6	144.6	5.7		1.0	3.3	91
Date Started:		1/14/2019	Water Level:		Not Encountered		Plate B-1.01
Date Completed:		1/14/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		4.4'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	146.3	146.3	5.8		1.7	4.3	71
1	147.3	147.3	5.8		1.0	3.3	91
1	147.8	147.8	5.8		0.5	2.4	127
1	150.0	150.0	5.9		2.2	4.9	63
1	152.1	152.1	6.0		2.1	4.8	64
1	152.5	152.5	6.0		0.4	2.2	141
1	153.9	153.9	6.1		1.4	3.9	78
1	155.5	155.5	6.1		1.6	4.2	73
1	155.7	155.7	6.1		0.2	1.5	197
1	157.2	157.2	6.2		1.5	4.0	75
1	159.4	159.4	6.3		2.2	4.9	63
1	161.0	161.0	6.3		1.6	4.2	73
1	162.7	162.7	6.4		1.7	4.3	71
1	163.9	163.9	6.5		1.2	3.6	84
1	164.8	164.8	6.5		0.9	3.2	96
1	166.0	166.0	6.5		1.2	3.6	84
1	168.0	168.0	6.6		2.0	4.6	66
1	168.9	168.9	6.6		0.9	3.2	96
1	170.8	170.8	6.7		1.9	4.5	67
1	172.8	172.8	6.8		2.0	4.6	66
1	174.5	174.5	6.9		1.7	4.3	71
1	177.0	177.0	7.0		2.5	5.2	59
1	178.5	178.5	7.0		1.5	4.0	75
1	180.6	180.6	7.1		2.1	4.8	64
1	181.3	181.3	7.1		0.7	2.8	108
1	184.6	184.6	7.3		3.3	5.9	52
1	186.3	186.3	7.3		1.7	4.3	71
1	188.7	188.7	7.4		2.4	5.1	60
1	189.6	189.6	7.5		0.9	3.2	96
1	191.3	191.3	7.5		1.7	4.3	71
1	191.6	191.6	7.5		0.3	1.9	162
1	193.7	193.7	7.6		2.1	4.8	64
1	193.9	193.9	7.6		0.2	1.5	197
1	196.1	196.1	7.7		2.2	4.9	63
1	197.9	197.9	7.8		1.8	4.4	69
1	199.2	199.2	7.8		1.3	3.8	81

Date Started:	1/14/2019	Water Level:	Not Encountered	Plate B-1.02
Date Completed:	1/14/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 101	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	201.0	201.0	7.9		1.8	4.4	69	
1	201.9	201.9	7.9		0.9	3.2	96	
1	204.1	204.1	8.0		2.2	4.9	63	
1	205.3	205.3	8.1		1.2	3.6	84	
1	207.1	207.1	8.2		1.8	4.4	69	
1	208.1	208.1	8.2		1.0	3.3	91	
1	210.5	210.5	8.3		2.4	5.1	60	
1	210.9	210.9	8.3		0.4	2.2	141	
1	212.0	212.0	8.3		1.1	3.5	87	
1	214.2	214.2	8.4		2.2	4.9	63	
1	216.4	216.4	8.5		2.2	4.9	63	
1	216.7	216.7	8.5		0.3	1.9	162	
1	218.4	218.4	8.6		1.7	4.3	71	
1	219.7	219.7	8.6		1.3	3.8	81	
1	222.4	222.4	8.8		2.7	5.4	57	
1	222.8	222.8	8.8		0.4	2.2	141	
1	223.2	223.2	8.8		0.4	2.2	141	
1	224.9	224.9	8.9		1.7	4.3	71	
1	225.2	225.2	8.9		0.3	1.9	162	
1	225.9	225.9	8.9		0.7	2.8	108	
1	227.0	227.0	8.9		1.1	3.5	87	
1	228.3	228.3	9.0		1.3	3.8	81	
1	229.7	229.7	9.0		1.4	3.9	78	
1	230.4	230.4	9.1		0.7	2.8	108	
1	231.3	231.3	9.1		0.9	3.2	96	
1	232.2	232.2	9.1		0.9	3.2	96	
1	234.1	234.1	9.2		1.9	4.5	67	
1	234.7	234.7	9.2		0.6	2.6	117	
1	236.1	236.1	9.3		1.4	3.9	78	
1	237.2	237.2	9.3		1.1	3.5	87	
1	237.5	237.5	9.4		0.3	1.9	162	
1	239.0	239.0	9.4		1.5	4.0	75	
1	239.7	239.7	9.4		0.7	2.8	108	
1	240.0	240.0	9.4		0.3	1.9	162	
1	241.0	241.0	9.5		1.0	3.3	91	
1	241.4	241.4	9.5		0.4	2.2	141	
Date Started:		1/14/2019	Water Level:		Not Encountered			Plate B-1.03
Date Completed:		1/14/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.4'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	242.1	242.1	9.5		0.7	2.8	108
1	242.3	242.3	9.5		0.2	1.5	197
1	243.9	243.9	9.6		1.6	4.2	73
1	244.4	244.4	9.6		0.5	2.4	127
1	245.5	245.5	9.7		1.1	3.5	87
1	247.4	247.4	9.7		1.9	4.5	67
1	248.0	248.0	9.8		0.6	2.6	117
1	250.1	250.1	9.8		2.1	4.8	64
1	250.7	250.7	9.9		0.6	2.6	117
1	252.0	252.0	9.9		1.3	3.8	81
1	253.0	253.0	10.0		1.0	3.3	91
1	254.9	254.9	10.0		1.9	4.5	67
1	255.6	255.6	10.1		0.7	2.8	108
1	256.3	256.3	10.1		0.7	2.8	108
1	258.3	258.3	10.2		2.0	4.6	66
1	258.3	258.8	10.2		0.5	2.4	127
1	260.4	260.4	10.3		1.6	4.2	73
1	260.8	260.8	10.3		0.4	2.2	141
1	262.7	262.7	10.3		1.9	4.5	67
1	262.7	263.2	10.4		0.5	2.4	127
1	264.0	264.0	10.4		0.8	3.0	102
1	264.6	264.6	10.4		0.6	2.6	117
1	265.4	265.4	10.4		0.8	3.0	102
1	267.5	267.5	10.5		2.1	4.8	64
1	268.8	268.8	10.6		1.3	3.8	81
1	270.1	270.1	10.6		1.3	3.8	81
1	271.5	271.5	10.7		1.4	3.9	78
1	271.5	272.4	10.7		0.9	3.2	96
1	273.8	273.8	10.8		1.4	3.9	78
1	274.0	274.0	10.8		0.2	1.5	197
1	275.5	275.5	10.8		1.5	4.0	75
1	278.1	278.1	10.9		2.6	5.3	58
1	279.4	279.4	11.0		1.3	3.8	81
1	279.7	279.7	11.0		0.3	1.9	162
1	282.0	282.0	11.1		2.3	5.0	61
1	284.9	284.9	11.2		2.9	5.5	55

Date Started:	1/14/2019	Water Level:	Not Encountered	Plate B-1.04
Date Completed:	1/14/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	285.6	285.6	11.2		0.7	2.8	108
1	286.9	286.9	11.3		1.3	3.8	81
1	288.9	288.9	11.4		2.0	4.6	66
1	290.3	290.3	11.4		1.4	3.9	78
1	292.1	292.1	11.5		1.8	4.4	69
1	294.3	294.3	11.6		2.2	4.9	63
1	296.7	296.7	11.7		2.4	5.1	60
1	298.3	298.3	11.7		1.6	4.2	73
1	301.5	301.5	11.9		3.2	5.8	52
1	303.9	303.9	12.0		2.4	5.1	60
1	305.7	305.7	12.0		1.8	4.4	69
1	309.2	309.2	12.2		3.5	6.1	50
1	313.2	313.2	12.3		4.0	6.5	47
1	318.0	318.0	12.5		4.8	7.0	43
1	321.3	321.3	12.6		3.3	5.9	52
1	325.3	325.3	12.8		4.0	6.5	47
1	330.5	330.5	13.0		5.2	7.3	42
1	338.0	338.0	13.3		7.5	8.7	35
1	343.3	343.3	13.5		5.3	7.4	41
1	352.0	352.0	13.9		8.7	9.4	33
1	359.3	359.3	14.1		7.3	8.6	35
1	367.6	367.6	14.5		8.3	9.2	33
1	375.7	375.7	14.8		8.1	9.0	34
1	385.5	385.5	15.2		9.8	9.9	31
1	393.9	393.9	15.5		8.4	9.2	33
1	403.1	403.1	15.9		9.2	9.6	32
1	412.4	412.4	16.2		9.3	9.7	32
1	421.4	421.4	16.6		9.0	9.5	32
1	431.1	431.1	17.0		9.7	9.9	31
1	441.0	441.0	17.4		9.9	10.0	31
1	451.7	451.7	17.8		10.7	10.3	30
1	461.6	461.6	18.2		9.9	10.0	31
1	469.7	469.7	18.5		8.1	9.0	34
1	471.1	471.1	18.5		1.4	3.9	78
1	478.2	478.2	18.8		7.1	8.5	36
1	484.0	484.0	19.1		5.8	7.7	40

Date Started:	1/14/2019	Water Level:	Not Encountered	Plate B-1.05
Date Completed:	1/14/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	490.0	490.0	19.3		6.0	7.8	39
1	497.3	497.3	19.6		7.3	8.6	35
1	508.1	508.1	20.0		10.8	10.4	29
1	519.7	519.7	20.5		11.6	10.7	28
1	532.2	532.2	21.0		12.5	11.1	27
1	542.5	542.5	21.4		10.3	10.1	30
1	551.0	551.0	21.7		8.5	9.3	33
1	559.0	559.0	22.0		8.0	9.0	34
1	566.3	566.3	22.3		7.3	8.6	35
1	574.9	574.9	22.6		8.6	9.3	33
1	583.1	583.1	23.0		8.2	9.1	34
1	593.8	593.8	23.4		10.7	10.3	30
1	604.8	604.8	23.8		11.0	10.5	29
1	618.1	618.1	24.3		13.3	11.5	27
1	634.0	634.0	25.0		15.9	12.5	24
1	650.9	650.9	25.6		16.9	12.8	24
1	665.5	665.5	26.2		14.6	12.0	25
1	675.2	675.2	26.6		9.7	9.9	31
1	683.0	683.0	26.9		7.8	8.9	34
1	690.1	690.1	27.2		7.1	8.5	36
1	696.9	696.9	27.4		6.8	8.3	37
1	702.8	702.8	27.7		5.9	7.8	39
1	709.9	709.9	27.9		7.1	8.5	36
1	718.2	718.2	28.3		8.3	9.2	33
1	725.8	725.8	28.6		7.6	8.8	35
1	736.3	736.3	29.0		10.5	10.2	30
1	747.7	747.7	29.4		11.4	10.6	29
1	758.1	758.1	29.8		10.4	10.2	30
1	765.0	765.0	30.1		6.9	8.4	36
1	773.1	773.1	30.4		8.1	9.0	34
1	781.1	781.1	30.8		8.0	9.0	34
1	791.5	791.5	31.2		10.4	10.2	30
1	801.6	801.6	31.6		10.1	10.0	30
1	814.2	814.2	32.1		12.6	11.2	27
1	827.4	827.4	32.6		13.2	11.4	27
1	839.5	839.5	33.1		12.1	11.0	28

Date Started:	1/14/2019	Water Level:	Not Encountered	Plate B-1.06
Date Completed:	1/14/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

GEOLABS, INC.

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAII

Log of
DCP

101

[illegible]

Date Started:	1/14/2019	Water Level:	Not Encountered	Plate B-1.07
Date Completed:	1/14/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**102**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	7.2	7.2	0.3		7.2	8.6	36
1	10.4	10.4	0.4		3.2	5.8	52
1	15.5	15.5	0.6		5.1	7.3	42
1	16.1	16.1	0.6		0.6	2.6	117
1	19.6	19.6	0.8		3.5	6.1	50
1	22.8	22.8	0.9		3.2	5.8	52
1	26.1	26.1	1.0		3.3	5.9	52
1	29.0	29.0	1.1		2.9	5.5	55
1	30.4	30.4	1.2		1.4	3.9	78
1	33.3	33.3	1.3		2.9	5.5	55
1	36.1	36.1	1.4		2.8	5.5	56
1	38.1	38.1	1.5		2.0	4.6	66
1	40.3	40.3	1.6		2.2	4.9	63
1	42.5	42.5	1.7		2.2	4.9	63
1	44.9	44.9	1.8		2.4	5.1	60
1	46.4	46.4	1.8		1.5	4.0	75
1	47.8	47.8	1.9		1.4	3.9	78
1	49.9	49.9	2.0		2.1	4.8	64
1	51.7	51.7	2.0		1.8	4.4	69
1	54.2	54.2	2.1		2.5	5.2	59
1	56.7	56.7	2.2		2.5	5.2	59
1	57.7	57.7	2.3		1.0	3.3	91
1	59.6	59.6	2.3		1.9	4.5	67
1	62.0	62.0	2.4		2.4	5.1	60
1	63.2	63.2	2.5		1.2	3.6	84
1	63.8	63.8	2.5		0.6	2.6	117
1	66.3	66.3	2.6		2.5	5.2	59
1	67.4	67.4	2.7		1.1	3.5	87
1	69.4	69.4	2.7		2.0	4.6	66
1	71.1	71.1	2.8		1.7	4.3	71
1	72.5	72.5	2.9		1.4	3.9	78
1	73.7	73.7	2.9		1.2	3.6	84
1	75.4	75.4	3.0		1.7	4.3	71
1	76.2	76.2	3.0		0.8	3.0	102
1	77.7	77.7	3.1		1.5	4.0	75
1	78.9	78.9	3.1		1.2	3.6	84

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.00
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 102	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	79.9	79.9	3.1		1.0	3.3	91	
1	80.8	80.8	3.2		0.9	3.2	96	
1	82.2	82.2	3.2		1.4	3.9	78	
1	82.7	82.7	3.3		0.5	2.4	127	
1	84.2	84.2	3.3		1.5	4.0	75	
1	84.9	84.9	3.3		0.7	2.8	108	
1	87.2	87.2	3.4		2.3	5.0	61	
1	88.4	88.4	3.5		1.2	3.6	84	
1	89.5	89.5	3.5		1.1	3.5	87	
1	90.1	90.1	3.5		0.6	2.6	117	
1	90.3	90.3	3.6		0.2	1.5	197	
1	91.5	91.5	3.6		1.2	3.6	84	
1	92.4	92.4	3.6		0.9	3.2	96	
1	93.2	93.2	3.7		0.8	3.0	102	
1	93.6	93.6	3.7		0.4	2.2	141	
1	94.5	94.5	3.7		0.9	3.2	96	
1	96.2	96.2	3.8		1.7	4.3	71	
1	96.6	96.6	3.8		0.4	2.2	141	
1	97.4	97.4	3.8		0.8	3.0	102	
1	98.0	98.0	3.9		0.6	2.6	117	
1	99.5	99.5	3.9		1.5	4.0	75	
1	101.6	101.6	4.0		2.1	4.8	64	
1	102.4	102.4	4.0		0.8	3.0	102	
1	103.7	103.7	4.1		1.3	3.8	81	
1	104.2	104.2	4.1		0.5	2.4	127	
1	104.4	104.4	4.1		0.2	1.5	197	
1	105.0	105.0	4.1		0.6	2.6	117	
1	105.1	105.1	4.1		0.1	1.1	274	
1	105.6	105.6	4.2		0.5	2.3	134	
1	106.0	106.0	4.2		0.5	2.3	134	
1	106.1	106.1	4.2		0.1	1.1	274	
1	106.2	106.2	4.2		0.1	1.1	274	
1	106.3	106.3	4.2		0.1	1.1	274	
1	106.6	106.6	4.2		0.3	1.9	162	
1	108.3	108.3	4.3		1.7	4.3	71	
1	108.7	108.7	4.3		0.4	2.2	141	
Date Started:		1/15/2019	Water Level:		Not Encountered			Plate B-2.01
Date Completed:		1/15/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.2'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 102
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	109.2	109.2	4.3		0.5	2.4	127
1	109.5	109.5	4.3		0.3	1.9	162
1	111.3	111.3	4.4		1.8	4.4	69
1	112.9	112.9	4.4		1.6	4.2	73
1	113.4	113.4	4.5		0.5	2.4	127
1	113.5	113.5	4.5		0.1	1.1	274
1	113.9	113.9	4.5		0.3	2.0	151
1	114.2	114.2	4.5		0.4	2.0	151
1	114.3	114.3	4.5		0.0	0.8	381
1	114.3	114.3	4.5		0.0	0.8	381
1	114.8	114.8	4.5		0.5	2.4	127
1	115.2	115.2	4.5		0.4	2.0	151
1	115.5	115.5	4.5		0.3	2.0	151
1	115.6	115.6	4.6		0.1	1.1	274
1	115.7	115.7	4.6		0.1	1.1	274
1	119.4	119.4	4.7		3.7	6.2	49
1	119.6	119.6	4.7		0.2	1.4	226
1	119.7	119.7	4.7		0.1	1.4	226
1	120.7	120.7	4.8		1.0	3.3	91
1	120.9	120.9	4.8		0.2	1.5	197
1	121.1	121.1	4.8		0.2	1.5	197
1	121.9	121.9	4.8		0.8	3.0	102
1	122.3	122.3	4.8		0.3	2.0	151
1	122.6	122.6	4.8		0.3	2.0	151
1	123.6	123.6	4.9		1.0	3.3	91
1	123.7	123.7	4.9		0.1	1.1	274
1	123.8	123.8	4.9		0.1	1.1	274
1	124.8	124.8	4.9		1.0	3.3	91
1	125.4	125.4	4.9		0.6	2.6	117
1	125.6	125.6	4.9		0.2	1.5	197
1	125.8	125.8	5.0		0.2	1.5	197
1	126.4	126.4	5.0		0.6	2.6	117
1	126.6	126.6	5.0		0.2	1.5	197
1	126.8	126.8	5.0		0.2	1.5	197
1	127.4	127.4	5.0		0.6	2.6	117
1	127.8	127.8	5.0		0.4	2.2	141
Date Started:		1/15/2019	Water Level:		Not Encountered		Plate B-2.02
Date Completed:		1/15/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		5.2'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 102	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	128.1	128.1	5.0		0.3	1.9	162	
1	128.8	128.8	5.1		0.7	2.8	108	
1	129.5	129.5	5.1		0.7	2.8	108	
1	129.7	129.7	5.1		0.2	1.5	197	
1	129.9	129.9	5.1		0.2	1.4	226	
1	130.0	130.0	5.1		0.2	1.4	226	
1	130.5	130.5	5.1		0.5	2.4	127	
1	131.0	131.0	5.2		0.5	2.4	127	
1	131.4	131.4	5.2		0.4	2.2	141	
1	131.5	131.5	5.2		0.1	1.1	274	
1	132.0	132.0	5.2		0.5	2.4	127	
1	132.5	132.5	5.2		0.5	2.4	127	
1	133.1	133.1	5.2		0.6	2.5	121	
1	133.6	133.6	5.3		0.5	2.5	121	
1	134.3	134.3	5.3		0.7	2.8	108	
1	134.9	134.9	5.3		0.6	2.5	121	
1	135.4	135.4	5.3		0.5	2.5	121	
1	135.9	135.9	5.4		0.5	2.4	127	
1	136.4	136.4	5.4		0.5	2.3	134	
1	136.8	136.8	5.4		0.4	2.3	134	
1	137.0	137.0	5.4		0.2	1.5	197	
1	137.6	137.6	5.4		0.6	2.5	121	
1	138.1	138.1	5.4		0.5	2.5	121	
1	138.9	138.9	5.5		0.8	2.9	105	
1	139.6	139.6	5.5		0.8	2.9	105	
1	139.7	139.7	5.5		0.1	1.1	274	
1	139.8	139.8	5.5		0.1	1.1	274	
1	139.9	139.9	5.5		0.1	1.1	274	
1	141.1	141.1	5.6		1.2	3.6	84	
1	141.5	141.5	5.6		0.4	2.2	141	
1	141.9	141.9	5.6		0.4	2.2	141	
1	143.9	143.9	5.7		2.0	4.6	66	
1	144.3	144.3	5.7		0.4	2.2	141	
1	144.4	144.4	5.7		0.1	1.1	274	
1	144.5	144.5	5.7		0.1	1.1	274	
1	145.5	145.5	5.7		1.0	3.3	91	
Date Started:		1/15/2019	Water Level:		Not Encountered			Plate B-2.03
Date Completed:		1/15/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.2'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**102**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	146.2	146.2	5.8		0.7	2.7	112
1	146.8	146.8	5.8		0.7	2.7	112
1	147.2	147.2	5.8		0.4	2.2	141
1	147.9	147.9	5.8		0.7	2.8	108
1	148.6	148.6	5.9		0.7	2.8	108
1	148.7	148.7	5.9		0.1	1.1	274
1	149.7	149.7	5.9		1.0	3.3	91
1	149.8	149.8	5.9		0.1	1.1	274
1	150.9	150.9	5.9		1.1	3.5	87
1	151.4	151.4	6.0		0.5	2.3	134
1	151.8	151.8	6.0		0.4	2.3	134
1	153.1	153.1	6.0		1.3	3.8	81
1	153.8	153.8	6.1		0.7	2.7	112
1	154.4	154.4	6.1		0.7	2.7	112
1	155.3	155.3	6.1		0.9	3.2	96
1	155.4	155.4	6.1		0.1	1.1	274
1	155.5	155.5	6.1		0.1	1.1	274
1	156.6	156.6	6.2		1.1	3.5	87
1	157.8	157.8	6.2		1.2	3.6	84
1	158.1	158.1	6.2		0.3	1.9	162
1	158.7	158.7	6.2		0.6	2.6	117
1	158.9	158.9	6.3		0.2	1.4	226
1	159.0	159.0	6.3		0.2	1.4	226
1	161.4	161.4	6.4		2.4	5.1	60
1	162.1	162.1	6.4		0.7	2.7	112
1	162.7	162.7	6.4		0.6	2.7	112
1	163.6	163.6	6.4		0.9	3.2	96
1	164.1	164.1	6.5		0.5	2.3	134
1	164.5	164.5	6.5		0.4	2.3	134
1	164.7	164.7	6.5		0.2	1.5	197
1	165.2	165.2	6.5		0.5	2.4	127
1	166.4	166.4	6.6		1.2	3.6	84
1	167.0	167.0	6.6		0.6	2.6	117
1	167.2	167.2	6.6		0.2	1.5	197
1	167.4	167.4	6.6		0.2	1.5	197
1	168.5	168.5	6.6		1.1	3.5	87

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.04
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 102	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	168.7	168.7	6.6		0.2	1.5	197	
1	169.0	169.0	6.7		0.3	1.9	162	
1	169.1	169.1	6.7		0.1	1.1	274	
1	170.8	170.8	6.7		1.7	4.3	71	
1	172.0	172.0	6.8		1.2	3.6	84	
1	172.6	172.6	6.8		0.6	2.5	121	
1	173.1	173.1	6.8		0.5	2.5	121	
1	173.7	173.7	6.8		0.6	2.6	117	
1	174.0	174.0	6.9		0.3	1.9	162	
1	175.4	175.4	6.9		1.4	3.9	78	
1	175.8	175.8	6.9		0.3	2.0	151	
1	176.1	176.1	6.9		0.3	2.0	151	
1	177.0	177.0	7.0		0.9	3.2	96	
1	177.9	177.9	7.0		0.9	3.2	96	
1	178.0	178.0	7.0		0.1	1.1	274	
1	179.3	179.3	7.1		1.3	3.8	81	
1	179.4	179.4	7.1		0.1	1.1	274	
1	180.6	180.6	7.1		1.2	3.6	84	
1	181.6	181.6	7.1		1.0	3.3	91	
1	182.2	182.2	7.2		0.6	2.6	117	
1	182.5	182.5	7.2		0.3	1.9	162	
1	184.3	184.3	7.3		1.8	4.4	69	
1	184.5	184.5	7.3		0.1	1.4	226	
1	184.6	184.6	7.3		0.2	1.4	226	
1	185.1	185.1	7.3		0.5	2.4	127	
1	185.4	185.4	7.3		0.3	1.9	162	
1	185.7	185.7	7.3		0.3	1.9	162	
1	186.4	186.4	7.3		0.7	2.8	108	
1	187.6	187.6	7.4		1.2	3.6	84	
1	189.3	189.3	7.5		1.7	4.3	71	
1	189.4	189.4	7.5		0.1	1.1	274	
1	189.5	189.5	7.5		0.1	1.1	274	
1	190.8	190.8	7.5		1.3	3.8	81	
1	191.2	191.2	7.5		0.4	2.2	141	
1	191.7	191.7	7.5		0.5	2.4	127	
1	192.1	192.1	7.6		0.4	2.2	141	
Date Started:		1/15/2019	Water Level:		Not Encountered			Plate B-2.05
Date Completed:		1/15/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.2'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 102
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	193.0	193.0	7.6		0.9	3.2	96
1	193.5	193.5	7.6		0.5	2.4	127
1	194.9	194.9	7.7		1.3	3.9	79
1	196.2	196.2	7.7		1.3	3.9	79
1	196.6	196.6	7.7		0.4	2.2	141
1	197.0	197.0	7.8		0.4	2.2	141
1	197.8	197.8	7.8		0.8	3.0	102
1	198.2	198.2	7.8		0.3	2.0	151
1	198.5	198.5	7.8		0.3	2.0	151
1	199.3	199.3	7.8		0.8	3.0	102
1	200.7	200.7	7.9		1.4	3.9	78
1	201.8	201.8	7.9		1.1	3.4	89
1	202.8	202.8	8.0		1.1	3.4	89
1	203.0	203.0	8.0		0.2	1.5	197
1	204.0	204.0	8.0		1.0	3.3	91
1	205.7	205.7	8.1		1.7	4.3	71
1	206.5	206.5	8.1		0.8	3.0	102
1	207.1	207.1	8.2		0.6	2.6	117
1	207.9	207.9	8.2		0.8	3.0	102
1	208.3	208.3	8.2		0.4	2.2	141
1	209.1	209.1	8.2		0.8	3.0	102
1	209.7	209.7	8.3		0.6	2.6	117
1	210.3	210.3	8.3		0.6	2.6	117
1	363.1	363.1	14.3		152.8	36.7	8
1	373.4	373.4	14.7		10.3	10.1	30
1	378.9	378.9	14.9		5.5	7.5	41
1	384.4	384.4	15.1		5.5	7.5	41
1	391.4	391.4	15.4		7.0	8.4	36
1	397.6	397.6	15.7		6.2	8.0	38
1	401.7	401.7	15.8		4.1	6.5	47
1	404.7	404.7	15.9		3.0	5.6	54
1	408.2	408.2	16.1		3.5	6.1	50
1	412.0	412.0	16.2		3.8	6.3	48
1	414.0	414.0	16.3		2.0	4.6	66
1	416.9	416.9	16.4		2.9	5.5	55
1	419.4	419.4	16.5		2.5	5.2	59
Date Started:		1/15/2019	Water Level:		Not Encountered		Plate B-2.06
Date Completed:		1/15/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		5.2'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**102**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	419.8	419.8	16.5		0.4	2.2	141
1	421.8	421.8	16.6		2.0	4.6	66
1	422.9	422.9	16.6		1.1	3.5	87
1	424.5	424.5	16.7		1.6	4.2	73
1	425.4	425.4	16.7		0.9	3.2	96
1	426.4	426.4	16.8		1.0	3.3	91
1	428.2	428.2	16.9		1.8	4.4	69
1	429.3	429.3	16.9		1.1	3.5	87
1	430.3	430.3	16.9		1.0	3.3	91
1	433.2	433.2	17.1		2.9	5.5	55
1	434.8	434.8	17.1		1.6	4.2	73
1	435.7	435.7	17.2		0.9	3.2	96
1	436.0	436.0	17.2		0.3	1.9	162
1	438.5	438.5	17.3		2.5	5.2	59
1	440.8	440.8	17.4		2.3	5.0	61
1	442.0	442.0	17.4		1.2	3.6	85
1	443.1	443.1	17.4		1.2	3.6	85
1	444.2	444.2	17.5		1.1	3.5	87
1	445.0	445.0	17.5		0.8	3.0	102
1	446.3	446.3	17.6		1.3	3.8	81
1	447.4	447.4	17.6		1.1	3.5	87
1	449.4	449.4	17.7		2.0	4.6	66
1	449.8	449.8	17.7		0.4	2.2	141
1	451.2	451.2	17.8		1.4	3.9	78
1	453.0	453.0	17.8		1.8	4.4	69
1	454.8	454.8	17.9		1.8	4.4	69
1	456.7	456.7	18.0		1.9	4.5	67
1	458.6	458.6	18.1		1.9	4.5	67
1	460.5	460.5	18.1		1.9	4.5	67
1	463.0	463.0	18.2		2.5	5.2	59
1	466.4	466.4	18.4		3.4	6.0	51
1	468.9	468.9	18.5		2.5	5.2	59
1	471.4	471.4	18.6		2.5	5.2	59
1	474.4	474.4	18.7		3.0	5.6	54
1	478.5	478.5	18.8		4.1	6.5	47
1	480.9	480.9	18.9		2.4	5.1	60

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.07
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**102**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	483.1	483.1	19.0		2.2	4.9	63
1	486.8	486.8	19.2		3.7	6.2	49
1	489.5	489.5	19.3		2.7	5.4	57
1	492.8	492.8	19.4		3.3	5.9	52
1	494.6	494.6	19.5		1.8	4.4	69
1	498.7	498.7	19.6		4.1	6.5	47
1	502.7	502.7	19.8		4.0	6.5	47
1	506.8	506.8	20.0		4.1	6.5	47
1	509.2	509.2	20.0		2.4	5.1	60
1	513.5	513.5	20.2		4.3	6.7	46
1	515.5	515.5	20.3		2.0	4.6	66
1	517.2	517.2	20.4		1.7	4.3	71
1	519.4	519.4	20.4		2.2	4.9	63
1	522.6	522.6	20.6		3.2	5.8	52
1	525.8	525.8	20.7		3.2	5.8	52
1	527.0	527.0	20.7		1.2	3.6	84
1	528.2	528.2	20.8		1.2	3.6	84
1	532.2	532.2	21.0		4.0	6.5	47
1	535.5	535.5	21.1		3.3	5.9	52
1	538.3	538.3	21.2		2.8	5.5	56
1	538.7	538.7	21.2		0.4	2.2	141
1	542.2	542.2	21.3		3.5	6.1	50
1	545.3	545.3	21.5		3.1	5.7	53
1	549.0	549.0	21.6		3.7	6.2	49
1	552.1	552.1	21.7		3.1	5.7	53
1	555.7	555.7	21.9		3.6	6.1	50
1	558.2	558.2	22.0		2.5	5.2	59
1	561.5	561.5	22.1		3.3	5.9	52
1	564.9	564.9	22.2		3.4	6.0	51
1	567.3	567.3	22.3		2.4	5.1	60
1	570.3	570.3	22.5		3.0	5.6	54
1	573.6	573.6	22.6		3.3	5.9	52
1	576.4	576.4	22.7		2.8	5.5	56
1	577.8	577.8	22.7		1.4	3.9	78
1	579.2	579.2	22.8		1.4	3.9	78
1	582.4	582.4	22.9		3.2	5.8	52

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.08
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	585.3	585.3	23.0		2.9	5.5	55
1	587.9	587.9	23.1		2.6	5.3	58
1	590.4	590.4	23.2		2.5	5.2	59
1	593.5	593.5	23.4		3.1	5.7	53
1	595.9	595.9	23.5		2.4	5.1	60
1	598.9	598.9	23.6		3.0	5.6	54
1	601.4	601.4	23.7		2.5	5.2	59
1	604.4	604.4	23.8		3.0	5.6	54
1	607.4	607.4	23.9		3.0	5.6	54
1	611.3	611.3	24.1		3.9	6.4	48
1	614.7	614.7	24.2		3.4	6.0	51
1	618.3	618.3	24.3		3.6	6.1	50
1	622.2	622.2	24.5		3.9	6.4	48
1	625.9	625.9	24.6		3.7	6.2	49
1	629.9	629.9	24.8		4.0	6.5	47
1	633.8	633.8	25.0		3.9	6.4	48
1	636.9	636.9	25.1		3.1	5.7	53
1	639.7	639.7	25.2		2.8	5.5	56
1	642.9	642.9	25.3		3.2	5.8	52
1	646.2	646.2	25.4		3.3	5.9	52
1	650.1	650.1	25.6		3.9	6.4	48
1	652.6	652.6	25.7		2.5	5.2	59
1	655.4	655.4	25.8		2.8	5.5	56
1	660.1	660.1	26.0		4.7	7.0	44
1	663.6	663.6	26.1		3.5	6.1	50
1	667.7	667.7	26.3		4.1	6.5	47
1	672.7	672.7	26.5		5.0	7.2	42
1	680.7	680.7	26.8		8.0	9.0	34
1	688.5	688.5	27.1		7.8	8.9	34
1	694.2	694.2	27.3		5.7	7.6	40
1	699.7	699.7	27.5		5.5	7.5	41
1	703.9	703.9	27.7		4.2	6.6	46
1	709.2	709.2	27.9		5.3	7.4	41
1	714.1	714.1	28.1		4.9	7.1	43
1	719.0	719.0	28.3		4.9	7.1	43
1	725.7	725.7	28.6		6.7	8.3	37

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.09
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	732.0	732.0	28.8		6.3	8.0	38
1	736.9	736.9	29.0		4.9	7.1	43
1	742.7	742.7	29.2		5.8	7.7	40
1	748.7	748.7	29.5		6.0	7.8	39
1	754.0	754.0	29.7		5.3	7.4	41
1	760.8	760.8	30.0		6.8	8.3	37
1	768.8	768.8	30.3		8.0	9.0	34
1	775.6	775.6	30.5		6.8	8.3	37
1	782.8	782.8	30.8		7.2	8.6	36
1	790.5	790.5	31.1		7.7	8.8	35
1	802.2	802.2	31.6		11.7	10.8	28
1	815.8	815.8	32.1		13.6	11.6	26
1	830.0	830.0	32.7		14.2	11.8	26
1	844.5	844.5	33.2		14.5	11.9	26
1	859.1	859.1	33.8		14.6	12.0	25
1	874.7	874.7	34.4		15.6	12.4	25
1	888.0	888.0	35.0		13.3	11.5	27
1	899.4	899.4	35.4		11.4	10.6	29
1	911.0	911.0	35.9		11.6	10.7	28
1	922.3	922.3	36.3		11.3	10.6	29
1	932.2	932.2	36.7		9.9	10.0	31
1	940.1	940.1	37.0		7.9	8.9	34
1	947.4	947.4	37.3		7.3	8.6	35
1	956.4	956.4	37.7		9.0	9.5	32
1	966.0	966.0	38.0		9.6	9.8	31
1	976.7	976.7	38.5		10.7	10.3	30
1	988.5	988.5	38.9		11.8	10.8	28
1	1003.9	1003.9	39.5		15.4	12.3	25
1	1023.8	1023.8	40.3		19.9	13.9	22
1	1047.1	1047.1	41.2		23.3	15.0	20
1	1062.4	1062.4	41.8		15.3	12.2	25
1	1078.3	1078.3	42.5		15.9	12.5	24
1	1094.3	1094.3	43.1		16.0	12.5	24
1	1116.3	1116.3	43.9		22.0	14.6	21
1	1145.7	1145.7	45.1		29.4	16.7	18
1	1179.3	1179.3	46.4		33.6	17.8	17

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.10
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1212.3	1212.3	47.7		33.0	17.7	17
1	1241.8	1241.8	48.9		29.5	16.7	18
1	1268.8	1268.8	50.0		27.0	16.1	19
1	1289.8	1289.8	50.8		21.0	14.2	21
1	1304.3	1304.3	51.4		14.5	11.9	26
1	1317.7	1317.7	51.9		13.4	11.5	27
1	1330.1	1330.1	52.4		12.4	11.1	28
1	1343.4	1343.4	52.9		13.3	11.5	27
1	1355.8	1355.8	53.4		12.4	11.1	28
1	1364.9	1364.9	53.7		9.1	9.6	32
1	1374.1	1374.1	54.1		9.2	9.6	32
1	1382.6	1382.6	54.4		8.5	9.3	33
1	1389.8	1389.8	54.7		7.2	8.6	36
1	1396.7	1396.7	55.0		6.9	8.4	36
1	1403.4	1403.4	55.3		6.7	8.3	37
1	1409.0	1409.0	55.5		5.6	7.6	40
1	1414.6	1414.6	55.7		5.6	7.6	40
1	1420.3	1420.3	55.9		5.7	7.6	40
1	1426.7	1426.7	56.2		6.4	8.1	38
1	1432.1	1432.1	56.4		5.4	7.5	41
1	1437.9	1437.9	56.6		5.8	7.7	40
1	1444.4	1444.4	56.9		6.5	8.1	37
1	1451.7	1451.7	57.2		7.3	8.6	35
1	1458.6	1458.6	57.4		6.9	8.4	36
1	1465.4	1465.4	57.7		6.8	8.3	37
1	1472.7	1472.7	58.0		7.3	8.6	35
1	1479.6	1479.6	58.3		6.9	8.4	36
1	1486.9	1486.9	58.5		7.3	8.6	35
1	1494.8	1494.8	58.9		7.9	8.9	34
1	1502.4	1502.4	59.1		7.6	8.8	35
1	1510.1	1510.1	59.5		7.7	8.8	35
1	1517.0	1517.0	59.7		6.9	8.4	36
1	1525.3	1525.3	60.1		8.3	9.2	33
1	1533.1	1533.1	60.4		7.8	8.9	34
1	1540.3	1540.3	60.6		7.2	8.6	36
1	1547.7	1547.7	60.9		7.4	8.7	35

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.11
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/15/2019	Water Level:	Not Encountered	Plate B-2.12
Date Completed:	1/15/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 103	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	5.5	5.5	0.2		5.5	7.5	41	
1	8.6	8.6	0.3		3.1	5.7	53	
1	10.0	10.0	0.4		1.4	3.9	78	
1	11.3	11.3	0.4		1.3	3.8	81	
1	12.7	12.7	0.5		1.4	3.9	78	
1	14.0	14.0	0.6		1.3	3.8	81	
1	15.6	15.6	0.6		1.6	4.2	73	
1	16.4	16.4	0.6		0.8	3.0	102	
1	16.6	16.6	0.7		0.2	1.5	197	
1	18.9	18.9	0.7		2.3	5.0	61	
1	19.4	19.4	0.8		0.5	2.4	127	
1	20.4	20.4	0.8		1.0	3.3	91	
1	22.3	22.3	0.9		1.9	4.5	67	
1	23.3	23.3	0.9		1.0	3.3	91	
1	23.8	23.8	0.9		0.5	2.4	127	
1	24.6	24.6	1.0		0.8	3.0	102	
1	25.7	25.7	1.0		1.1	3.5	87	
1	27.9	27.9	1.1		2.2	4.9	63	
1	29.7	29.7	1.2		1.8	4.4	69	
1	30.4	30.4	1.2		0.7	2.7	112	
1	31.0	31.0	1.2		0.6	2.7	112	
1	31.1	31.1	1.2		0.1	1.1	274	
1	31.2	31.2	1.2		0.1	1.1	274	
1	32.9	32.9	1.3		1.7	4.3	71	
1	33.7	33.7	1.3		0.8	3.0	102	
1	34.5	34.5	1.4		0.8	3.0	102	
1	35.8	35.8	1.4		1.3	3.8	81	
1	37.1	37.1	1.5		1.3	3.8	81	
1	38.1	38.1	1.5		1.0	3.3	91	
1	38.5	38.5	1.5		0.4	2.2	141	
1	39.1	39.1	1.5		0.6	2.6	117	
1	39.7	39.7	1.6		0.6	2.6	117	
1	40.1	40.1	1.6		0.4	2.2	141	
1	42.1	42.1	1.7		2.0	4.6	66	
1	42.8	42.8	1.7		0.7	2.8	108	
1	44.6	44.6	1.8		1.8	4.4	69	
Date Started:		1/16/2019	Water Level:		Not Encountered			Plate B-3.00
Date Completed:		1/16/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		2.4'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 103	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	45.2	45.2	1.8		0.6	2.6	117	
1	45.8	45.8	1.8		0.6	2.6	117	
1	47.1	47.1	1.9		1.3	3.8	81	
1	48.5	48.5	1.9		1.4	3.9	78	
1	49.2	49.2	1.9		0.7	2.8	108	
1	50.2	50.2	2.0		1.0	3.3	91	
1	51.3	51.3	2.0		1.1	3.5	87	
1	52.5	52.5	2.1		1.2	3.6	84	
1	53.6	53.6	2.1		1.1	3.5	87	
1	56.0	56.0	2.2		2.4	5.1	60	
1	56.2	56.2	2.2		0.2	1.5	197	
1	58.2	58.2	2.3		2.0	4.6	66	
1	59.4	59.4	2.3		1.2	3.6	84	
1	61.2	61.2	2.4		1.8	4.4	69	
1	62.6	62.6	2.5		1.4	3.9	78	
1	64.3	64.3	2.5		1.7	4.3	71	
1	65.4	65.4	2.6		1.1	3.5	87	
1	65.9	65.9	2.6		0.5	2.4	127	
1	67.9	67.9	2.7		2.0	4.6	66	
1	69.6	69.6	2.7		1.7	4.3	71	
1	71.2	71.2	2.8		1.6	4.2	73	
1	71.3	71.3	2.8		0.1	1.1	274	
1	72.4	72.4	2.9		1.1	3.5	87	
1	74.2	74.2	2.9		1.8	4.4	69	
1	75.9	75.9	3.0		1.7	4.3	71	
1	76.9	76.9	3.0		1.0	3.3	91	
1	77.2	77.2	3.0		0.3	1.9	162	
1	79.1	79.1	3.1		1.9	4.5	67	
1	80.6	80.6	3.2		1.5	4.0	75	
1	82.9	82.9	3.3		2.3	5.0	61	
1	86.0	86.0	3.4		3.1	5.7	53	
1	86.4	86.4	3.4		0.4	2.2	141	
1	89.6	89.6	3.5		3.2	5.8	52	
1	91.2	91.2	3.6		1.6	4.2	73	
1	93.2	93.2	3.7		2.0	4.6	66	
1	95.4	95.4	3.8		2.2	4.9	63	
Date Started:		1/16/2019	Water Level:		Not Encountered			Plate B-3.01
Date Completed:		1/16/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		2.4'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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PALI HIGHWAY RESURFACING
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	98.0	98.0	3.9		2.6	5.3	58
1	100.6	100.6	4.0		2.6	5.3	58
1	103.1	103.1	4.1		2.5	5.2	59
1	104.7	104.7	4.1		1.6	4.2	73
1	106.4	106.4	4.2		1.7	4.3	71
1	108.6	108.6	4.3		2.2	4.9	63
1	111.4	111.4	4.4		2.8	5.5	56
1	113.3	113.3	4.5		1.9	4.5	67
1	115.6	115.6	4.6		2.3	5.0	61
1	118.2	118.2	4.7		2.6	5.3	58
1	120.8	120.8	4.8		2.6	5.3	58
1	123.5	123.5	4.9		2.7	5.4	57
1	126.2	126.2	5.0		2.7	5.4	57
1	128.4	128.4	5.1		2.2	4.9	63
1	130.6	130.6	5.1		2.2	4.9	63
1	133.6	133.6	5.3		3.0	5.6	54
1	136.1	136.1	5.4		2.5	5.2	59
1	138.2	138.2	5.4		2.1	4.8	64
1	141.5	141.5	5.6		3.3	5.9	52
1	144.1	144.1	5.7		2.6	5.3	58
1	147.8	147.8	5.8		3.7	6.2	49
1	150.7	150.7	5.9		2.9	5.5	55
1	154.0	154.0	6.1		3.3	5.9	52
1	156.9	156.9	6.2		2.9	5.5	55
1	161.1	161.1	6.3		4.2	6.6	46
1	163.8	163.8	6.4		2.7	5.4	57
1	165.8	165.8	6.5		2.0	4.6	66
1	169.2	169.2	6.7		3.4	6.0	51
1	173.9	173.9	6.8		4.7	7.0	44
1	177.8	177.8	7.0		3.9	6.4	48
1	181.3	181.3	7.1		3.5	6.1	50
1	185.1	185.1	7.3		3.8	6.3	48
1	188.2	188.2	7.4		3.1	5.7	53
1	191.3	191.3	7.5		3.1	5.7	53
1	194.5	194.5	7.7		3.2	5.8	52
1	197.6	197.6	7.8		3.1	5.7	53

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.02
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	199.7	199.7	7.9		2.1	4.8	64
1	202.3	202.3	8.0		2.6	5.3	58
1	204.3	204.3	8.0		2.0	4.6	66
1	208.6	208.6	8.2		4.3	6.7	46
1	211.1	211.1	8.3		2.5	5.2	59
1	213.7	213.7	8.4		2.6	5.3	58
1	215.2	215.2	8.5		1.5	4.0	75
1	217.5	217.5	8.6		2.3	5.0	61
1	219.3	219.3	8.6		1.8	4.4	69
1	221.2	221.2	8.7		1.9	4.5	67
1	223.7	223.7	8.8		2.5	5.2	59
1	225.4	225.4	8.9		1.7	4.3	71
1	225.7	225.7	8.9		0.3	1.9	162
1	226.1	226.1	8.9		0.4	2.2	141
1	228.5	228.5	9.0		2.4	5.1	60
1	229.9	229.9	9.1		1.4	3.9	78
1	231.2	231.2	9.1		1.3	3.8	81
1	231.5	231.5	9.1		0.3	1.9	162
1	233.2	233.2	9.2		1.7	4.3	71
1	233.6	233.6	9.2		0.4	2.2	141
1	234.4	234.4	9.2		0.8	3.0	102
1	235.4	235.4	9.3		1.0	3.3	91
1	237.4	237.4	9.3		2.0	4.6	66
1	238.5	238.5	9.4		1.1	3.5	87
1	239.7	239.7	9.4		1.2	3.6	84
1	240.4	240.4	9.5		0.7	2.8	108
1	243.0	243.0	9.6		2.6	5.3	58
1	243.5	243.5	9.6		0.5	2.4	127
1	244.0	244.0	9.6		0.5	2.4	127
1	245.3	245.3	9.7		1.3	3.8	81
1	247.0	247.0	9.7		1.7	4.3	71
1	248.0	248.0	9.8		1.0	3.3	91
1	249.1	249.1	9.8		1.1	3.5	87
1	249.9	249.9	9.8		0.8	3.0	102
1	251.0	251.0	9.9		1.1	3.5	87
1	251.7	251.7	9.9		0.7	2.8	108

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.03
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	253.9	253.9	10.0		2.2	4.9	63
1	255.1	255.1	10.0		1.2	3.6	84
1	256.0	256.0	10.1		0.9	3.2	96
1	257.4	257.4	10.1		1.4	3.9	78
1	257.9	257.9	10.2		0.5	2.4	127
1	258.6	258.6	10.2		0.6	2.7	112
1	259.2	259.2	10.2		0.7	2.7	112
1	260.7	260.7	10.3		1.5	4.0	75
1	261.8	261.8	10.3		1.1	3.5	87
1	262.7	262.7	10.3		0.9	3.2	96
1	264.4	264.4	10.4		1.7	4.3	71
1	266.2	266.2	10.5		1.8	4.4	69
1	267.0	267.0	10.5		0.8	3.0	102
1	267.9	267.9	10.5		0.9	3.2	96
1	269.6	269.6	10.6		1.7	4.3	71
1	270.9	270.9	10.7		1.3	3.8	81
1	271.6	271.6	10.7		0.7	2.8	108
1	272.9	272.9	10.7		1.3	3.8	81
1	273.9	273.9	10.8		1.0	3.3	91
1	274.9	274.9	10.8		1.0	3.3	91
1	277.0	277.0	10.9		2.1	4.8	64
1	277.9	277.9	10.9		0.9	3.2	96
1	279.1	279.1	11.0		1.2	3.6	84
1	280.7	280.7	11.1		1.6	4.2	73
1	281.5	281.5	11.1		0.8	3.0	102
1	283.6	283.6	11.2		2.1	4.8	64
1	284.7	284.7	11.2		1.1	3.5	87
1	285.3	285.3	11.2		0.6	2.6	117
1	286.3	286.3	11.3		1.0	3.3	91
1	287.7	287.7	11.3		1.4	3.9	78
1	288.7	288.7	11.4		1.0	3.3	91
1	290.2	290.2	11.4		1.5	4.0	75
1	291.1	291.1	11.5		0.9	3.2	96
1	292.7	292.7	11.5		1.6	4.2	73
1	294.8	294.8	11.6		2.1	4.8	64
1	296.3	296.3	11.7		1.5	4.0	75

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.04
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	297.6	297.6	11.7		1.3	3.8	81
1	298.6	298.6	11.8		1.0	3.3	91
1	299.6	299.6	11.8		1.0	3.3	91
1	300.6	300.6	11.8		1.0	3.3	91
1	302.2	302.2	11.9		1.6	4.2	73
1	303.3	303.3	11.9		1.1	3.5	87
1	305.0	305.0	12.0		1.7	4.3	71
1	306.8	306.8	12.1		1.8	4.4	69
1	307.7	307.7	12.1		0.9	3.2	96
1	308.2	308.2	12.1		0.5	2.4	127
1	310.0	310.0	12.2		1.8	4.4	69
1	311.6	311.6	12.3		1.6	4.2	73
1	313.2	313.2	12.3		1.6	4.2	73
1	314.3	314.3	12.4		1.1	3.5	87
1	315.8	315.8	12.4		1.5	4.0	75
1	316.1	316.1	12.4		0.3	1.9	162
1	318.2	318.2	12.5		2.1	4.8	64
1	319.5	319.5	12.6		1.3	3.8	81
1	320.9	320.9	12.6		1.4	3.9	78
1	322.3	322.3	12.7		1.4	3.9	78
1	323.3	323.3	12.7		1.0	3.3	91
1	324.5	324.5	12.8		1.2	3.6	84
1	325.7	325.7	12.8		1.2	3.6	84
1	326.5	326.5	12.9		0.8	3.0	102
1	327.3	327.3	12.9		0.8	3.0	102
1	329.0	329.0	13.0		1.7	4.3	71
1	330.3	330.3	13.0		1.3	3.8	81
1	330.8	330.8	13.0		0.5	2.4	127
1	332.3	332.3	13.1		1.5	4.0	75
1	333.5	333.5	13.1		1.2	3.6	84
1	334.7	334.7	13.2		1.2	3.6	84
1	335.2	335.2	13.2		0.5	2.4	127
1	336.8	336.8	13.3		1.6	4.2	73
1	338.3	338.3	13.3		1.5	4.0	75
1	340.4	340.4	13.4		2.1	4.8	64
1	340.7	340.7	13.4		0.3	1.9	162

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.05
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	343.1	343.1	13.5		2.4	5.1	60
1	344.0	344.0	13.5		0.9	3.2	96
1	345.7	345.7	13.6		1.7	4.3	71
1	346.2	346.2	13.6		0.5	2.4	127
1	348.4	348.4	13.7		2.2	4.9	63
1	350.1	350.1	13.8		1.7	4.3	71
1	350.5	350.5	13.8		0.4	2.2	141
1	352.5	352.5	13.9		2.0	4.6	66
1	353.5	353.5	13.9		1.0	3.3	91
1	353.9	353.9	13.9		0.4	2.2	141
1	355.2	355.2	14.0		1.3	3.8	81
1	357.9	357.9	14.1		2.7	5.4	57
1	359.0	359.0	14.1		1.1	3.5	87
1	361.2	361.2	14.2		2.2	4.9	63
1	365.6	365.6	14.4		4.4	6.8	45
1	368.0	368.0	14.5		2.4	5.1	60
1	371.7	371.7	14.6		3.7	6.2	49
1	374.3	374.3	14.7		2.6	5.3	58
1	376.6	376.6	14.8		2.3	5.0	61
1	379.1	379.1	14.9		2.5	5.2	59
1	382.0	382.0	15.0		2.9	5.5	55
1	383.6	383.6	15.1		1.6	4.2	73
1	388.1	388.1	15.3		4.5	6.8	45
1	389.9	389.9	15.4		1.8	4.4	69
1	391.9	391.9	15.4		2.0	4.6	66
1	395.7	395.7	15.6		3.8	6.3	48
1	397.6	397.6	15.7		1.9	4.5	67
1	400.2	400.2	15.8		2.6	5.3	58
1	401.9	401.9	15.8		1.7	4.3	71
1	404.8	404.8	15.9		2.9	5.5	55
1	408.1	408.1	16.1		3.3	5.9	52
1	411.0	411.0	16.2		2.9	5.5	55
1	412.5	412.5	16.2		1.5	4.0	75
1	416.6	416.6	16.4		4.1	6.5	47
1	419.8	419.8	16.5		3.2	5.8	52
1	421.5	421.5	16.6		1.7	4.3	71

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.06
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	422.7	422.7	16.6		1.2	3.6	84
1	425.7	425.7	16.8		3.0	5.6	54
1	429.6	429.6	16.9		3.9	6.4	48
1	432.5	432.5	17.0		2.9	5.5	55
1	435.1	435.1	17.1		2.6	5.3	58
1	437.7	437.7	17.2		2.6	5.3	58
1	440.9	440.9	17.4		3.2	5.8	52
1	444.3	444.3	17.5		3.4	6.0	51
1	446.6	446.6	17.6		2.3	5.0	61
1	449.3	449.3	17.7		2.7	5.4	57
1	451.6	451.6	17.8		2.3	5.0	61
1	455.3	455.3	17.9		3.7	6.2	49
1	457.6	457.6	18.0		2.3	5.0	61
1	460.2	460.2	18.1		2.6	5.3	58
1	463.4	463.4	18.2		3.2	5.8	52
1	465.7	465.7	18.3		2.3	5.0	61
1	470.0	470.0	18.5		4.3	6.7	46
1	472.9	472.9	18.6		2.9	5.5	55
1	476.0	476.0	18.7		3.1	5.7	53
1	478.6	478.6	18.8		2.6	5.3	58
1	481.7	481.7	19.0		3.1	5.7	53
1	484.8	484.8	19.1		3.1	5.7	53
1	487.4	487.4	19.2		2.6	5.3	58
1	490.8	490.8	19.3		3.4	6.0	51
1	493.0	493.0	19.4		2.2	4.9	63
1	496.9	496.9	19.6		3.9	6.4	48
1	499.6	499.6	19.7		2.7	5.4	57
1	502.8	502.8	19.8		3.2	5.8	52
1	505.9	505.9	19.9		3.1	5.7	53
1	509.1	509.1	20.0		3.2	5.8	52
1	512.3	512.3	20.2		3.2	5.8	52
1	515.5	515.5	20.3		3.2	5.8	52
1	519.3	519.3	20.4		3.8	6.3	48
1	522.8	522.8	20.6		3.5	6.1	50
1	525.7	525.7	20.7		2.9	5.5	55
1	527.3	527.3	20.8		1.6	4.2	73

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.07
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**103**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	531.4	531.4	20.9		4.1	6.5	47
1	532.7	532.7	21.0		1.3	3.8	81
1	533.9	533.9	21.0		1.2	3.6	84
1	538.0	538.0	21.2		4.1	6.5	47
1	541.6	541.6	21.3		3.6	6.1	50
1	544.1	544.1	21.4		2.5	5.2	59
1	547.1	547.1	21.5		3.0	5.6	54
1	550.9	550.9	21.7		3.8	6.3	48
1	553.7	553.7	21.8		2.8	5.5	56
1	556.8	556.8	21.9		3.1	5.7	53
1	559.3	559.3	22.0		2.5	5.2	59
1	563.3	563.3	22.2		4.0	6.5	47
1	567.1	567.1	22.3		3.8	6.3	48
1	571.2	571.2	22.5		4.1	6.5	47
1	575.4	575.4	22.7		4.2	6.6	46
1	579.3	579.3	22.8		3.9	6.4	48
1	584.0	584.0	23.0		4.7	7.0	44
1	588.1	588.1	23.2		4.1	6.5	47
1	592.2	592.2	23.3		4.1	6.5	47
1	595.5	595.5	23.4		3.3	5.9	52
1	599.9	599.9	23.6		4.4	6.8	45
1	604.1	604.1	23.8		4.2	6.6	46
1	608.2	608.2	23.9		4.1	6.5	47
1	613.6	613.6	24.2		5.4	7.5	41
1	618.0	618.0	24.3		4.4	6.8	45
1	621.9	621.9	24.5		3.9	6.4	48
1	625.0	625.0	24.6		3.1	5.7	53
1	628.5	628.5	24.7		3.5	6.1	50
1	631.6	631.6	24.9		3.1	5.7	53
1	635.3	635.3	25.0		3.7	6.2	49
1	639.2	639.2	25.2		3.9	6.4	48
1	641.9	641.9	25.3		2.7	5.4	57
1	645.9	645.9	25.4		4.0	6.5	47
1	649.1	649.1	25.6		3.2	5.8	52
1	653.2	653.2	25.7		4.1	6.5	47
1	655.8	655.8	25.8		2.6	5.3	58

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.08
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	659.4	659.4	26.0		3.6	6.1	50
1	663.0	663.0	26.1		3.6	6.1	50
1	666.6	666.6	26.2		3.6	6.1	50
1	671.4	671.4	26.4		4.8	7.0	43
1	675.5	675.5	26.6		4.1	6.5	47
1	680.2	680.2	26.8		4.7	7.0	44
1	685.8	685.8	27.0		5.6	7.6	40
1	691.4	691.4	27.2		5.6	7.6	40
1	694.7	694.7	27.4		3.3	5.9	52
1	696.8	696.8	27.4		2.1	4.8	64
1	698.3	698.3	27.5		1.5	4.0	75
1	699.5	699.5	27.5		1.2	3.6	84
1	700.6	700.6	27.6		1.1	3.5	87
1	702.3	702.3	27.6		1.7	4.3	71
1	703.5	703.5	27.7		1.2	3.6	84
1	704.2	704.2	27.7		0.7	2.8	108
1	706.3	706.3	27.8		2.1	4.8	64
1	706.5	706.5	27.8		0.2	1.5	197
1	708.4	708.4	27.9		1.9	4.5	67
1	710.6	710.6	28.0		2.2	4.9	63
1	710.7	710.7	28.0		0.1	1.1	274
1	710.8	710.8	28.0		0.1	1.1	274
1	711.4	711.4	28.0		0.6	2.6	117
1	711.6	711.6	28.0		0.2	1.5	197
1	712.6	712.6	28.1		1.0	3.3	91
1	713.5	713.5	28.1		0.9	3.2	96
1	714.5	714.5	28.1		1.0	3.3	91
1	716.8	716.8	28.2		2.3	5.0	61
1	717.0	717.0	28.2		0.2	1.5	197
1	717.2	717.2	28.2		0.2	1.5	197
1	719.2	719.2	28.3		2.0	4.6	66
1	719.8	719.8	28.3		0.6	2.6	117
1	721.0	721.0	28.4		1.2	3.6	84
1	721.1	721.1	28.4		0.1	1.1	274
1	721.2	721.2	28.4		0.1	0.8	381
1	721.2	721.2	28.4		0.1	0.8	381

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.09
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/16/2019	Water Level:	Not Encountered	Plate B-3.10
Date Completed:	1/16/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 104	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	10.3	10.3	0.4		10.3	10.1	30	
1	14.7	14.7	0.6		4.4	6.8	45	
1	19.5	19.5	0.8		4.8	7.0	43	
1	22.4	22.4	0.9		2.9	5.5	55	
1	25.0	25.0	1.0		2.6	5.3	58	
1	28.5	28.5	1.1		3.5	6.1	50	
1	30.0	30.0	1.2		1.5	4.0	75	
1	32.7	32.7	1.3		2.7	5.4	57	
1	33.9	33.9	1.3		1.2	3.6	84	
1	35.6	35.6	1.4		1.7	4.3	71	
1	37.5	37.5	1.5		1.9	4.5	67	
1	38.5	38.5	1.5		1.0	3.3	91	
1	41.1	41.1	1.6		2.6	5.3	58	
1	41.6	41.6	1.6		0.5	2.4	127	
1	42.3	42.3	1.7		0.7	2.8	108	
1	43.7	43.7	1.7		1.4	3.9	78	
1	45.2	45.2	1.8		1.5	4.0	75	
1	49.1	49.1	1.9		3.9	6.4	48	
1	51.2	51.2	2.0		2.1	4.8	64	
1	53.1	53.1	2.1		1.9	4.5	67	
1	54.6	54.6	2.1		1.5	4.0	75	
1	56.1	56.1	2.2		1.5	4.0	75	
1	57.4	57.4	2.3		1.3	3.8	81	
1	58.7	58.7	2.3		1.3	3.8	81	
1	60.7	60.7	2.4		2.0	4.6	66	
1	62.0	62.0	2.4		1.3	3.8	81	
1	65.9	65.9	2.6		3.9	6.4	48	
1	67.6	67.6	2.7		1.7	4.3	71	
1	68.1	68.1	2.7		0.5	2.4	127	
1	69.0	69.0	2.7		0.9	3.2	96	
1	72.3	72.3	2.8		3.3	5.9	52	
1	74.1	74.1	2.9		1.8	4.4	69	
1	74.6	74.6	2.9		0.5	2.4	127	
1	75.6	75.6	3.0		1.0	3.3	91	
1	76.0	76.0	3.0		0.4	2.2	141	
1	76.8	76.8	3.0		0.8	3.0	102	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-4.00
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.1'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 104	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	79.4	79.4	3.1		2.6	5.3	58	
1	80.4	80.4	3.2		1.0	3.3	91	
1	80.9	80.9	3.2		0.5	2.4	127	
1	82.3	82.3	3.2		1.4	3.9	78	
1	83.2	83.2	3.3		0.9	3.2	96	
1	84.1	84.1	3.3		0.9	3.2	96	
1	84.5	84.5	3.3		0.4	2.2	141	
1	86.4	86.4	3.4		1.9	4.5	67	
1	87.3	87.3	3.4		0.9	3.2	96	
1	89.8	89.8	3.5		2.5	5.2	59	
1	91.0	91.0	3.6		1.2	3.6	84	
1	91.5	91.5	3.6		0.5	2.3	134	
1	91.9	91.9	3.6		0.5	2.3	134	
1	92.3	92.3	3.6		0.4	2.2	141	
1	93.2	93.2	3.7		0.9	3.2	96	
1	94.3	94.3	3.7		1.1	3.5	87	
1	94.6	94.6	3.7		0.3	1.9	162	
1	95.0	95.0	3.7		0.4	2.2	141	
1	96.0	96.0	3.8		1.0	3.3	91	
1	97.8	97.8	3.9		1.8	4.4	69	
1	99.3	99.3	3.9		1.5	4.0	77	
1	100.7	100.7	4.0		1.5	4.0	77	
1	101.0	101.0	4.0		0.3	1.9	162	
1	102.9	102.9	4.1		1.9	4.5	67	
1	105.2	105.2	4.1		2.3	5.0	61	
1	108.9	108.9	4.3		3.7	6.2	49	
1	111.3	111.3	4.4		2.4	5.1	60	
1	114.6	114.6	4.5		3.3	5.9	52	
1	116.8	116.8	4.6		2.2	4.9	63	
1	118.3	118.3	4.7		1.5	4.0	75	
1	120.1	120.1	4.7		1.8	4.4	69	
1	122.4	122.4	4.8		2.3	5.0	61	
1	124.3	124.3	4.9		1.9	4.5	67	
1	127.6	127.6	5.0		3.3	5.9	52	
1	129.3	129.3	5.1		1.7	4.3	71	
1	131.3	131.3	5.2		2.0	4.6	66	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-4.01
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.1'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 104	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	133.2	133.2	5.2		1.9	4.5	67	
1	139.0	139.0	5.5		5.8	7.7	40	
1	139.9	139.9	5.5		0.9	3.2	96	
1	140.8	140.8	5.5		0.9	3.2	96	
1	142.4	142.4	5.6		1.6	4.2	73	
1	145.7	145.7	5.7		3.3	5.9	52	
1	147.9	147.9	5.8		2.2	4.9	63	
1	149.9	149.9	5.9		2.0	4.6	66	
1	152.6	152.6	6.0		2.7	5.4	57	
1	155.2	155.2	6.1		2.6	5.3	58	
1	158.1	158.1	6.2		2.9	5.5	55	
1	161.3	161.3	6.4		3.2	5.8	52	
1	163.9	163.9	6.5		2.6	5.3	58	
1	166.2	166.2	6.5		2.3	5.0	61	
1	168.8	168.8	6.6		2.6	5.3	58	
1	171.2	171.2	6.7		2.4	5.1	60	
1	174.3	174.3	6.9		3.1	5.7	53	
1	177.5	177.5	7.0		3.2	5.8	52	
1	181.7	181.7	7.2		4.2	6.6	46	
1	186.3	186.3	7.3		4.6	6.9	44	
1	190.8	190.8	7.5		4.5	6.8	45	
1	197.0	197.0	7.8		6.2	8.0	38	
1	201.9	201.9	7.9		4.9	7.1	43	
1	206.3	206.3	8.1		4.4	6.8	45	
1	211.4	211.4	8.3		5.1	7.3	42	
1	216.8	216.8	8.5		5.4	7.5	41	
1	221.6	221.6	8.7		4.8	7.0	43	
1	224.4	224.4	8.8		2.8	5.5	56	
1	228.9	228.9	9.0		4.5	6.8	45	
1	233.9	233.9	9.2		5.0	7.2	42	
1	234.5	234.5	9.2		0.6	2.6	117	
1	238.5	238.5	9.4		4.0	6.5	47	
1	243.4	243.4	9.6		4.9	7.1	43	
1	247.2	247.2	9.7		3.8	6.3	48	
1	251.2	251.2	9.9		4.0	6.5	47	
1	256.4	256.4	10.1		5.2	7.3	42	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-4.02
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.1'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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PALI HIGHWAY RESURFACING
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	257.3	257.3	10.1		0.9	3.2	96
1	261.6	261.6	10.3		4.3	6.7	46
1	264.1	264.1	10.4		2.5	5.2	59
1	267.5	267.5	10.5		3.4	6.0	51
1	269.9	269.9	10.6		2.4	5.1	60
1	273.8	273.8	10.8		3.9	6.4	48
1	277.8	277.8	10.9		4.0	6.5	47
1	280.5	280.5	11.0		2.7	5.4	57
1	283.4	283.4	11.2		2.9	5.5	55
1	287.6	287.6	11.3		4.2	6.6	46
1	292.1	292.1	11.5		4.5	6.8	45
1	296.4	296.4	11.7		4.3	6.7	46
1	299.6	299.6	11.8		3.2	5.8	52
1	302.5	302.5	11.9		2.9	5.5	55
1	306.2	306.2	12.1		3.7	6.2	49
1	312.4	312.4	12.3		6.2	8.0	38
1	317.2	317.2	12.5		4.8	7.0	43
1	321.4	321.4	12.7		4.2	6.6	46
1	326.7	326.7	12.9		5.3	7.4	41
1	330.0	330.0	13.0		3.3	5.9	52
1	334.7	334.7	13.2		4.7	7.0	44
1	338.4	338.4	13.3		3.7	6.2	49
1	341.5	341.5	13.4		3.1	5.7	53
1	344.8	344.8	13.6		3.3	5.9	52
1	349.1	349.1	13.7		4.3	6.7	46
1	352.9	352.9	13.9		3.8	6.3	48
1	357.4	357.4	14.1		4.5	6.8	45
1	362.0	362.0	14.3		4.6	6.9	44
1	366.2	366.2	14.4		4.2	6.6	46
1	368.5	368.5	14.5		2.3	5.0	61
1	371.2	371.2	14.6		2.7	5.4	57
1	374.3	374.3	14.7		3.1	5.7	53
1	376.7	376.7	14.8		2.4	5.1	60
1	378.5	378.5	14.9		1.8	4.4	69
1	382.4	382.4	15.1		3.9	6.4	48
1	384.0	384.0	15.1		1.6	4.2	73

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-4.03
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.1'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**104**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	386.1	386.1	15.2		2.1	4.8	64
1	389.6	389.6	15.3		3.5	6.1	50
1	392.2	392.2	15.4		2.6	5.3	58
1	396.0	396.0	15.6		3.8	6.3	48
1	399.3	399.3	15.7		3.3	5.9	52
1	403.9	403.9	15.9		4.6	6.9	44
1	408.2	408.2	16.1		4.3	6.7	46
1	413.3	413.3	16.3		5.1	7.3	42
1	418.6	418.6	16.5		5.3	7.4	41
1	425.3	425.3	16.7		6.7	8.3	37
1	431.1	431.1	17.0		5.8	7.7	40
1	438.4	438.4	17.3		7.3	8.6	35
1	446.1	446.1	17.6		7.7	8.8	35
1	455.0	455.0	17.9		8.9	9.5	32
1	465.9	465.9	18.3		10.9	10.4	29
1	476.3	476.3	18.8		10.4	10.2	30
1	487.5	487.5	19.2		11.2	10.6	29
1	500.2	500.2	19.7		12.7	11.2	27
1	513.5	513.5	20.2		13.3	11.5	27
1	527.8	527.8	20.8		14.3	11.9	26
1	541.8	541.8	21.3		14.0	11.7	26
1	557.1	557.1	21.9		15.3	12.2	25
1	573.1	573.1	22.6		16.0	12.5	24
1	594.5	594.5	23.4		21.4	14.4	21
1	607.4	607.4	23.9		12.9	11.3	27
1	633.7	633.7	24.9		26.3	15.9	19
1	644.4	644.4	25.4		10.7	10.3	30
1	650.2	650.2	25.6		5.8	7.7	40
1	656.0	656.0	25.8		5.8	7.7	40
1	668.3	668.3	26.3		12.3	11.0	28
1	676.1	676.1	26.6		7.8	8.9	34
1	688.6	688.6	27.1		12.5	11.1	27
1	698.4	698.4	27.5		9.8	9.9	31
1	709.4	709.4	27.9		11.0	10.5	29
1	720.3	720.3	28.4		10.9	10.4	29
1	730.4	730.4	28.8		10.1	10.0	30

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-4.04
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.1'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

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PALI HIGHWAY RESURFACING
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	740.9	740.9	29.2		10.5	10.2	30
1	750.2	750.2	29.5		9.3	9.7	32
1	759.7	759.7	29.9		9.5	9.8	31
1	768.0	768.0	30.2		8.3	9.2	33
1	776.9	776.9	30.6		8.9	9.5	32
1	784.2	784.2	30.9		7.3	8.6	35
1	792.2	792.2	31.2		8.0	9.0	34
1	799.4	799.4	31.5		7.2	8.6	36
1	806.9	806.9	31.8		7.5	8.7	35
1	813.9	813.9	32.0		7.0	8.4	36
1	821.3	821.3	32.3		7.4	8.7	35
1	828.2	828.2	32.6		6.9	8.4	36
1	835.6	835.6	32.9		7.4	8.7	35
1	843.2	843.2	33.2		7.6	8.8	35
1	850.4	850.4	33.5		7.2	8.6	36
1	856.5	856.5	33.7		6.1	7.9	39
1	863.5	863.5	34.0		7.0	8.4	36
1	869.7	869.7	34.2		6.2	8.0	38
1	876.9	876.9	34.5		7.2	8.6	36
1	883.3	883.3	34.8		6.4	8.1	38
1	890.2	890.2	35.0		6.9	8.4	36
1	897.0	897.0	35.3		6.8	8.3	37
1	903.6	903.6	35.6		6.6	8.2	37
1	910.4	910.4	35.8		6.8	8.3	37
1	916.2	916.2	36.1		5.8	7.7	40
1	923.8	923.8	36.4		7.6	8.8	35
1	929.9	929.9	36.6		6.1	7.9	39
1	936.7	936.7	36.9		6.8	8.3	37
1	942.4	942.4	37.1		5.7	7.6	40
1	949.0	949.0	37.4		6.6	8.2	37
1	955.5	955.5	37.6		6.5	8.1	37
1	961.1	961.1	37.8		5.6	7.6	40
1	966.7	966.7	38.1		5.6	7.6	40
1	973.6	973.6	38.3		6.9	8.4	36
1	979.3	979.3	38.6		5.7	7.6	40
1	984.9	984.9	38.8		5.6	7.6	40

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-4.05
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.1'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 104	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	990.7	990.7	39.0		5.8	7.7	40	
1	996.5	996.5	39.2		5.8	7.7	40	
1	1002.2	1002.2	39.5		5.7	7.6	40	
1	1008.0	1008.0	39.7		5.8	7.7	40	
1	1014.2	1014.2	39.9		6.2	8.0	38	
1	1019.3	1019.3	40.1		5.1	7.3	42	
1	1024.7	1024.7	40.3		5.4	7.5	41	
1	1029.6	1029.6	40.5		4.9	7.1	43	
1	1035.2	1035.2	40.8		5.6	7.6	40	
1	1040.6	1040.6	41.0		5.4	7.5	41	
1	1046.3	1046.3	41.2		5.7	7.6	40	
1	1051.8	1051.8	41.4		5.5	7.5	41	
1	1056.7	1056.7	41.6		4.9	7.1	43	
1	1062.0	1062.0	41.8		5.3	7.4	41	
1	1067.4	1067.4	42.0		5.4	7.5	41	
1	1072.2	1072.2	42.2		4.8	7.0	43	
1	1077.8	1077.8	42.4		5.6	7.6	40	
1	1083.0	1083.0	42.6		5.2	7.3	42	
1	1087.3	1087.3	42.8		4.3	6.7	46	
1	1093.0	1093.0	43.0		5.7	7.6	40	
1	1097.2	1097.2	43.2		4.2	6.6	46	
1	1101.5	1101.5	43.4		4.3	6.7	46	
1	1106.4	1106.4	43.6		4.9	7.1	43	
1	1111.3	1111.3	43.8		4.9	7.1	43	
1	1116.1	1116.1	43.9		4.8	7.0	43	
1	1120.9	1120.9	44.1		4.8	7.0	43	
1	1125.5	1125.5	44.3		4.6	6.9	44	
1	1129.9	1129.9	44.5		4.4	6.8	45	
1	1134.9	1134.9	44.7		5.0	7.2	42	
1	1140.1	1140.1	44.9		5.2	7.3	42	
1	1144.6	1144.6	45.1		4.5	6.8	45	
1	1148.9	1148.9	45.2		4.3	6.7	46	
1	1153.9	1153.9	45.4		5.0	7.2	42	
1	1159.1	1159.1	45.6		5.2	7.3	42	
1	1163.4	1163.4	45.8		4.3	6.7	46	
1	1167.9	1167.9	46.0		4.5	6.8	45	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-4.06
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		5.1'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**104**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1172.5	1172.5	46.2		4.6	6.9	44
1	1177.9	1177.9	46.4		5.4	7.5	41
1	1181.2	1181.2	46.5		3.3	5.9	52
1	1185.0	1185.0	46.7		3.8	6.3	48
1	1189.0	1189.0	46.8		4.0	6.5	47
1	1193.7	1193.7	47.0		4.7	7.0	44
1	1197.8	1197.8	47.2		4.1	6.5	47
1	1202.6	1202.6	47.3		4.8	7.0	43
1	1206.6	1206.6	47.5		4.0	6.5	47
1	1211.2	1211.2	47.7		4.6	6.9	44
1	1215.4	1215.4	47.9		4.2	6.6	46
1	1218.0	1218.0	48.0		2.5	5.2	58
1	1220.5	1220.5	48.1		2.5	5.2	58
1	1225.0	1225.0	48.2		4.5	6.8	45
1	1230.6	1230.6	48.4		5.6	7.6	40
1	1234.9	1234.9	48.6		4.3	6.7	46
1	1241.0	1241.0	48.9		6.1	7.9	39
1	1246.6	1246.6	49.1		5.6	7.6	40
1	1248.9	1248.9	49.2		2.3	5.0	61
1	1251.2	1251.2	49.3		2.3	5.0	61
1	1257.4	1257.4	49.5		6.2	8.0	38
1	1260.7	1260.7	49.6		3.3	5.9	52
1	1266.0	1266.0	49.8		5.3	7.4	41
1	1269.0	1269.0	50.0		3.0	5.6	54
1	1273.7	1273.7	50.1		4.7	7.0	44
1	1279.0	1279.0	50.4		5.3	7.4	41
1	1282.8	1282.8	50.5		3.8	6.3	48
1	1287.2	1287.2	50.7		4.4	6.8	45
1	1292.7	1292.7	50.9		5.5	7.5	41
1	1296.0	1296.0	51.0		3.3	5.9	52
1	1299.7	1299.7	51.2		3.7	6.2	49
1	1304.7	1304.7	51.4		5.0	7.2	42
1	1308.8	1308.8	51.5		4.1	6.5	47
1	1313.1	1313.1	51.7		4.3	6.7	46
1	1317.6	1317.6	51.9		4.5	6.8	45
1	1322.1	1322.1	52.1		4.5	6.8	45

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-4.07
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.1'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 104
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1326.8	1326.8	52.2		4.7	7.0	44
1	1331.4	1331.4	52.4		4.6	6.9	44
1	1336.1	1336.1	52.6		4.7	7.0	44
1	1340.6	1340.6	52.8		4.5	6.8	45
1	1345.2	1345.2	53.0		4.6	6.9	44
1	1350.7	1350.7	53.2		5.5	7.5	41
1	1355.7	1355.7	53.4		5.0	7.2	42
1	1361.2	1361.2	53.6		5.5	7.5	41
1	1366.8	1366.8	53.8		5.6	7.6	40
1	1372.6	1372.6	54.0		5.8	7.7	40
1	1378.7	1378.7	54.3		6.1	7.9	39
1	1383.6	1383.6	54.5		4.9	7.1	43
1	1389.2	1389.2	54.7		5.6	7.6	40
1	1394.7	1394.7	54.9		5.5	7.5	41
1	1400.2	1400.2	55.1		5.5	7.5	41
1	1405.6	1405.6	55.3		5.4	7.5	41
1	1411.7	1411.7	55.6		6.1	7.9	39
1	1417.2	1417.2	55.8		5.5	7.5	41
1	1423.3	1423.3	56.0		6.1	7.9	39
1	1429.7	1429.7	56.3		6.4	8.1	38
1	1435.3	1435.3	56.5		5.6	7.6	40
1	1441.0	1441.0	56.7		5.7	7.6	40
1	1447.5	1447.5	57.0		6.5	8.1	37
1	1452.5	1452.5	57.2		5.0	7.2	42
1	1458.2	1458.2	57.4		5.7	7.6	40
1	1464.7	1464.7	57.7		6.5	8.1	37
1	1470.7	1470.7	57.9		6.0	7.8	39
1	1477.1	1477.1	58.2		6.4	8.1	38
1	1483.3	1483.3	58.4		6.2	8.0	38
1	1489.4	1489.4	58.6		6.1	7.9	39
1	1495.7	1495.7	58.9		6.3	8.0	38
1	1502.4	1502.4	59.1		6.7	8.3	37
1	1508.5	1508.5	59.4		6.1	7.9	39
1	1515.3	1515.3	59.7		6.8	8.3	37
1	1520.9	1520.9	59.9		5.6	7.6	40
1	1528.1	1528.1	60.2		7.2	8.6	36
Date Started:		1/17/2019	Water Level:		Not Encountered		Plate B-4.08
Date Completed:		1/17/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		5.1'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-4.09
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	5.1'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 105
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	11.5	11.5	0.5		11.5	10.7	29
1	18.8	18.8	0.7		7.3	8.6	35
1	24.5	24.5	1.0		5.7	7.6	40
1	29.4	29.4	1.2		4.9	7.1	43
1	34.5	34.5	1.4		5.1	7.3	42
1	39.4	39.4	1.6		4.9	7.1	43
1	41.0	41.0	1.6		1.6	4.2	73
1	45.2	45.2	1.8		4.2	6.6	46
1	49.4	49.4	1.9		4.2	6.6	46
1	53.3	53.3	2.1		3.9	6.4	48
1	57.7	57.7	2.3		4.4	6.8	45
1	61.4	61.4	2.4		3.7	6.2	49
1	66.0	66.0	2.6		4.6	6.9	44
1	70.4	70.4	2.8		4.4	6.8	45
1	74.7	74.7	2.9		4.3	6.7	46
1	77.4	77.4	3.0		2.7	5.4	57
1	82.2	82.2	3.2		4.8	7.0	43
1	84.7	84.7	3.3		2.5	5.2	59
1	89.2	89.2	3.5		4.5	6.8	45
1	93.4	93.4	3.7		4.2	6.6	46
1	95.7	95.7	3.8		2.3	5.0	61
1	97.8	97.8	3.9		2.1	4.8	64
1	101.1	101.1	4.0		3.3	5.9	52
1	104.4	104.4	4.1		3.3	5.9	52
1	106.8	106.8	4.2		2.4	5.1	60
1	107.4	107.4	4.2		0.6	2.6	117
1	107.9	107.9	4.2		0.5	2.4	127
1	109.5	109.5	4.3		1.6	4.2	73
1	111.1	111.1	4.4		1.6	4.2	73
1	112.3	112.3	4.4		1.2	3.6	84
1	116.0	116.0	4.6		3.7	6.2	49
1	120.4	120.4	4.7		4.4	6.8	45
1	120.6	120.6	4.7		0.2	1.5	197
1	123.9	123.9	4.9		3.3	5.9	52
1	125.6	125.6	4.9		1.7	4.3	71
1	130.5	130.5	5.1		4.9	7.1	43
Date Started:		1/17/2019	Water Level:		Not Encountered		Plate B-5.00
Date Completed:		1/17/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		4.5'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**105**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	135.4	135.4	5.3		4.9	7.1	43
1	140.9	140.9	5.5		5.5	7.5	41
1	146.3	146.3	5.8		5.4	7.5	41
1	151.0	151.0	5.9		4.7	7.0	44
1	157.0	157.0	6.2		6.0	7.8	39
1	164.5	164.5	6.5		7.5	8.7	35
1	172.7	172.7	6.8		8.2	9.1	34
1	179.6	179.6	7.1		6.9	8.4	36
1	186.8	186.8	7.4		7.2	8.6	36
1	193.1	193.1	7.6		6.3	8.0	38
1	200.6	200.6	7.9		7.5	8.7	35
1	208.9	208.9	8.2		8.3	9.2	33
1	218.2	218.2	8.6		9.3	9.7	32
1	229.2	229.2	9.0		11.0	10.5	29
1	239.7	239.7	9.4		10.5	10.2	30
1	251.2	251.2	9.9		11.5	10.7	29
1	262.7	262.7	10.3		11.5	10.7	29
1	272.7	272.7	10.7		10.0	10.0	30
1	281.5	281.5	11.1		8.8	9.4	32
1	291.1	291.1	11.5		9.6	9.8	31
1	300.7	300.7	11.8		9.6	9.8	31
1	310.3	310.3	12.2		9.6	9.8	31
1	319.8	319.8	12.6		9.5	9.8	31
1	329.9	329.9	13.0		10.1	10.0	30
1	339.9	339.9	13.4		10.0	10.0	30
1	348.4	348.4	13.7		8.5	9.3	33
1	356.7	356.7	14.0		8.3	9.2	33
1	363.8	363.8	14.3		7.1	8.5	36
1	370.7	370.7	14.6		6.9	8.4	36
1	379.1	379.1	14.9		8.4	9.2	33
1	386.8	386.8	15.2		7.7	8.8	35
1	395.0	395.0	15.6		8.2	9.1	34
1	403.6	403.6	15.9		8.6	9.3	33
1	412.3	412.3	16.2		8.7	9.4	33
1	421.0	421.0	16.6		8.7	9.4	33
1	429.1	429.1	16.9		8.1	9.0	34

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-5.01
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.5'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**105**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	436.6	436.6	17.2		7.5	8.7	35
1	444.2	444.2	17.5		7.6	8.8	35
1	452.6	452.6	17.8		8.4	9.2	33
1	460.5	460.5	18.1		7.9	8.9	34
1	468.5	468.5	18.4		8.0	9.0	34
1	477.6	477.6	18.8		9.1	9.6	32
1	485.3	485.3	19.1		7.7	8.8	35
1	493.5	493.5	19.4		8.2	9.1	34
1	501.5	501.5	19.7		8.0	9.0	34
1	509.2	509.2	20.0		7.7	8.8	35
1	516.9	516.9	20.4		7.7	8.8	35
1	524.8	524.8	20.7		7.9	8.9	34
1	532.6	532.6	21.0		7.8	8.9	34
1	539.1	539.1	21.2		6.5	8.1	37
1	544.9	544.9	21.5		5.8	7.7	40
1	552.1	552.1	21.7		7.2	8.6	36
1	558.1	558.1	22.0		6.0	7.8	39
1	563.2	563.2	22.2		5.1	7.3	42
1	570.9	570.9	22.5		7.7	8.8	35
1	578.9	578.9	22.8		8.0	9.0	34
1	585.9	585.9	23.1		7.0	8.4	36
1	591.0	591.0	23.3		5.1	7.3	42
1	596.5	596.5	23.5		5.5	7.5	41
1	603.8	603.8	23.8		7.3	8.6	35
1	611.6	611.6	24.1		7.8	8.9	34
1	618.8	618.8	24.4		7.2	8.6	36
1	626.8	626.8	24.7		8.0	9.0	34
1	632.6	632.6	24.9		5.8	7.7	40
1	640.9	640.9	25.2		8.3	9.2	33
1	646.6	646.6	25.5		5.7	7.6	40
1	652.3	652.3	25.7		5.7	7.6	40
1	658.9	658.9	25.9		6.6	8.2	37
1	668.8	668.8	26.3		9.9	10.0	31
1	679.7	679.7	26.8		10.9	10.4	29
1	684.2	684.2	26.9		4.5	6.8	45
1	689.3	689.3	27.1		5.1	7.3	42

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-5.02
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.5'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 105
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	694.6	694.6	27.3		5.3	7.4	41
1	701.3	701.3	27.6		6.7	8.3	37
1	707.1	707.1	27.8		5.8	7.7	40
1	712.6	712.6	28.1		5.5	7.5	41
1	718.2	718.2	28.3		5.6	7.6	40
1	724.4	724.4	28.5		6.2	8.0	38
1	731.0	731.0	28.8		6.6	8.2	37
1	739.7	739.7	29.1		8.7	9.4	33
1	746.6	746.6	29.4		6.9	8.4	36
1	753.0	753.0	29.6		6.4	8.1	38
1	759.3	759.3	29.9		6.3	8.0	38
1	765.5	765.5	30.1		6.2	8.0	38
1	772.5	772.5	30.4		7.0	8.4	36
1	779.0	779.0	30.7		6.5	8.1	37
1	785.9	785.9	30.9		6.9	8.4	36
1	792.7	792.7	31.2		6.8	8.3	37
1	798.7	798.7	31.4		6.0	7.8	39
1	805.2	805.2	31.7		6.5	8.1	37
1	812.4	812.4	32.0		7.2	8.6	36
1	819.2	819.2	32.3		6.8	8.3	37
1	824.8	824.8	32.5		5.6	7.6	40
1	832.8	832.8	32.8		8.0	9.0	34
1	839.6	839.6	33.1		6.8	8.3	37
1	846.9	846.9	33.3		7.3	8.6	35
1	854.1	854.1	33.6		7.2	8.6	36
1	861.5	861.5	33.9		7.4	8.7	35
1	867.5	867.5	34.2		6.0	7.8	39
1	875.5	875.5	34.5		8.0	9.0	34
1	882.3	882.3	34.7		6.8	8.3	37
1	889.9	889.9	35.0		7.6	8.8	35
1	898.0	898.0	35.4		8.1	9.0	34
1	904.7	904.7	35.6		6.7	8.3	37
1	912.5	912.5	35.9		7.8	8.9	34
1	919.6	919.6	36.2		7.1	8.5	36
1	927.2	927.2	36.5		7.6	8.8	35
1	933.9	933.9	36.8		6.7	8.3	37
Date Started:		1/17/2019	Water Level:		Not Encountered		Plate B-5.03
Date Completed:		1/17/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		4.5'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**105**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	941.1	941.1	37.1		7.2	8.6	36
1	948.1	948.1	37.3		7.0	8.4	36
1	955.7	955.7	37.6		7.6	8.8	35
1	963.7	963.7	37.9		8.0	9.0	34
1	970.7	970.7	38.2		7.0	8.4	36
1	977.4	977.4	38.5		6.7	8.3	37
1	985.6	985.6	38.8		8.2	9.1	34
1	992.7	992.7	39.1		7.1	8.5	36
1	1000.5	1000.5	39.4		7.8	8.9	34
1	1008.1	1008.1	39.7		7.6	8.8	35
1	1015.2	1015.2	40.0		7.1	8.5	36
1	1022.1	1022.1	40.2		6.9	8.4	36
1	1028.8	1028.8	40.5		6.7	8.3	37
1	1036.3	1036.3	40.8		7.5	8.7	35
1	1044.0	1044.0	41.1		7.7	8.8	35
1	1050.5	1050.5	41.4		6.5	8.1	37
1	1058.1	1058.1	41.7		7.6	8.8	35
1	1066.3	1066.3	42.0		8.2	9.1	34
1	1074.7	1074.7	42.3		8.4	9.2	33
1	1082.2	1082.2	42.6		7.5	8.7	35
1	1089.5	1089.5	42.9		7.3	8.6	35
1	1097.7	1097.7	43.2		8.2	9.1	34
1	1105.8	1105.8	43.5		8.1	9.0	34
1	1113.6	1113.6	43.8		7.8	8.9	34
1	1122.1	1122.1	44.2		8.5	9.3	33
1	1129.6	1129.6	44.5		7.5	8.7	35
1	1137.3	1137.3	44.8		7.7	8.8	35
1	1145.2	1145.2	45.1		7.9	8.9	34
1	1153.1	1153.1	45.4		7.9	8.9	34
1	1160.8	1160.8	45.7		7.7	8.8	35
1	1169.2	1169.2	46.0		8.4	9.2	33
1	1177.7	1177.7	46.4		8.5	9.3	33
1	1185.5	1185.5	46.7		7.8	8.9	34
1	1193.8	1193.8	47.0		8.3	9.2	33
1	1202.7	1202.7	47.4		8.9	9.5	32
1	1211.5	1211.5	47.7		8.8	9.4	32

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-5.04
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.5'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-5.05
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.5'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**106**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	8.7	8.7	0.3		8.7	9.4	33
1	11.7	11.7	0.5		3.0	5.6	54
1	15.8	15.8	0.6		4.1	6.5	47
1	19.2	19.2	0.8		3.4	6.0	51
1	22.1	22.1	0.9		2.9	5.5	55
1	25.0	25.0	1.0		2.9	5.5	55
1	27.7	27.7	1.1		2.7	5.4	57
1	31.5	31.5	1.2		3.8	6.3	48
1	33.0	33.0	1.3		1.5	4.0	75
1	35.1	35.1	1.4		2.1	4.8	64
1	37.2	37.2	1.5		2.1	4.8	64
1	40.4	40.4	1.6		3.2	5.8	52
1	43.0	43.0	1.7		2.6	5.3	58
1	45.2	45.2	1.8		2.2	4.9	63
1	47.6	47.6	1.9		2.4	5.1	60
1	50.9	50.9	2.0		3.3	5.9	52
1	53.9	53.9	2.1		3.0	5.6	54
1	58.3	58.3	2.3		4.4	6.8	45
1	62.8	62.8	2.5		4.5	6.8	45
1	68.1	68.1	2.7		5.3	7.4	41
1	73.2	73.2	2.9		5.1	7.3	42
1	80.3	80.3	3.2		7.1	8.5	36
1	89.1	89.1	3.5		8.8	9.4	32
1	100.1	100.1	3.9		11.0	10.5	29
1	112.6	112.6	4.4		12.5	11.1	27
1	126.9	126.9	5.0		14.3	11.9	26
1	138.0	138.0	5.4		11.1	10.5	29
1	149.6	149.6	5.9		11.6	10.7	28
1	161.4	161.4	6.4		11.8	10.8	28
1	168.7	168.7	6.6		7.3	8.6	35
1	179.6	179.6	7.1		10.9	10.4	29
1	191.7	191.7	7.5		12.1	11.0	28
1	203.8	203.8	8.0		12.1	11.0	28
1	215.2	215.2	8.5		11.4	10.6	29
1	226.6	226.6	8.9		11.4	10.6	29
1	239.0	239.0	9.4		12.4	11.1	28

Date Started:	1/22/2019	Water Level:	Not Encountered	Plate B-6.00
Date Completed:	1/22/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	3.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	251.6	251.6	9.9		12.6	11.2	27
1	262.4	262.4	10.3		10.8	10.4	29
1	274.9	274.9	10.8		12.5	11.1	27
1	286.2	286.2	11.3		11.3	10.6	29
1	297.3	297.3	11.7		11.1	10.5	29
1	308.1	308.1	12.1		10.8	10.4	29
1	320.2	320.2	12.6		12.1	11.0	28
1	332.4	332.4	13.1		12.2	11.0	28
1	342.2	342.2	13.5		9.8	9.9	31
1	353.0	353.0	13.9		10.8	10.4	29
1	363.6	363.6	14.3		10.6	10.3	30
1	373.8	373.8	14.7		10.2	10.1	30
1	384.4	384.4	15.1		10.6	10.3	30
1	394.4	394.4	15.5		10.0	10.0	30
1	404.0	404.0	15.9		9.6	9.8	31
1	414.7	414.7	16.3		10.7	10.3	30
1	423.2	423.2	16.7		8.5	9.3	33
1	432.8	432.8	17.0		9.6	9.8	31
1	441.5	441.5	17.4		8.7	9.4	33
1	451.1	451.1	17.8		9.6	9.8	31
1	460.2	460.2	18.1		9.1	9.6	32
1	469.3	469.3	18.5		9.1	9.6	32
1	478.3	478.3	18.8		9.0	9.5	32
1	487.1	487.1	19.2		8.8	9.4	32
1	495.6	495.6	19.5		8.5	9.3	33
1	504.2	504.2	19.9		8.6	9.3	33
1	512.2	512.2	20.2		8.0	9.0	34
1	521.4	521.4	20.5		9.2	9.6	32
1	530.3	530.3	20.9		8.9	9.5	32
1	538.6	538.6	21.2		8.3	9.2	33
1	546.5	546.5	21.5		7.9	8.9	34
1	554.6	554.6	21.8		8.1	9.0	34
1	563.4	563.4	22.2		8.8	9.4	32
1	570.1	570.1	22.4		6.7	8.3	37
1	578.1	578.1	22.8		8.0	9.0	34
1	586.1	586.1	23.1		8.0	9.0	34

Date Started:	1/22/2019	Water Level:	Not Encountered	Plate B-6.01
Date Completed:	1/22/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	3.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**106**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	594.1	594.1	23.4		8.0	9.0	34
1	602.0	602.0	23.7		7.9	8.9	34
1	610.2	610.2	24.0		8.2	9.1	34
1	618.3	618.3	24.3		8.1	9.0	34
1	626.7	626.7	24.7		8.4	9.2	33
1	634.1	634.1	25.0		7.4	8.7	35
1	642.3	642.3	25.3		8.2	9.1	34
1	650.5	650.5	25.6		8.2	9.1	34
1	657.6	657.6	25.9		7.1	8.5	36
1	665.4	665.4	26.2		7.8	8.9	34
1	673.0	673.0	26.5		7.6	8.8	35
1	681.6	681.6	26.8		8.6	9.3	33
1	689.8	689.8	27.2		8.2	9.1	34
1	698.0	698.0	27.5		8.2	9.1	34
1	706.1	706.1	27.8		8.1	9.0	34
1	714.5	714.5	28.1		8.4	9.2	33
1	722.5	722.5	28.4		8.0	9.0	34
1	730.4	730.4	28.8		7.9	8.9	34
1	738.6	738.6	29.1		8.2	9.1	34
1	745.8	745.8	29.4		7.2	8.6	36
1	753.7	753.7	29.7		7.9	8.9	34
1	761.0	761.0	30.0		7.3	8.6	35
1	768.0	768.0	30.2		7.0	8.4	36
1	775.2	775.2	30.5		7.2	8.6	36
1	783.2	783.2	30.8		8.0	9.0	34
1	790.5	790.5	31.1		7.3	8.6	35
1	798.2	798.2	31.4		7.7	8.8	35
1	805.7	805.7	31.7		7.5	8.7	35
1	813.1	813.1	32.0		7.4	8.7	35
1	820.3	820.3	32.3		7.2	8.6	36
1	828.5	828.5	32.6		8.2	9.1	34
1	836.5	836.5	32.9		8.0	9.0	34
1	844.5	844.5	33.2		8.0	9.0	34
1	853.1	853.1	33.6		8.6	9.3	33
1	861.9	861.9	33.9		8.8	9.4	32
1	871.1	871.1	34.3		9.2	9.6	32

Date Started:	1/22/2019	Water Level:	Not Encountered	Plate B-6.02
Date Completed:	1/22/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	3.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/22/2019	Water Level:	Not Encountered	Plate B-6.03
Date Completed:	1/22/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	3.2'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 107	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	12.2	12.2	0.5		12.2	11.0	28	
1	22.7	22.7	0.9		10.5	10.2	30	
1	30.7	30.7	1.2		8.0	9.0	34	
1	40.4	40.4	1.6		9.7	9.9	31	
1	45.4	45.4	1.8		5.0	7.2	42	
1	48.7	48.7	1.9		3.3	5.9	52	
1	53.9	53.9	2.1		5.2	7.3	42	
1	58.0	58.0	2.3		4.1	6.5	47	
1	62.4	62.4	2.5		4.4	6.8	45	
1	68.0	68.0	2.7		5.6	7.6	40	
1	72.4	72.4	2.9		4.4	6.8	45	
1	77.7	77.7	3.1		5.3	7.4	41	
1	82.7	82.7	3.3		5.0	7.2	42	
1	86.1	86.1	3.4		3.4	6.0	51	
1	89.9	89.9	3.5		3.8	6.3	48	
1	94.4	94.4	3.7		4.5	6.8	45	
1	98.7	98.7	3.9		4.3	6.7	46	
1	102.8	102.8	4.0		4.1	6.5	47	
1	105.1	105.1	4.1		2.3	5.0	61	
1	108.8	108.8	4.3		3.7	6.2	49	
1	111.1	111.1	4.4		2.3	5.0	61	
1	112.8	112.8	4.4		1.7	4.3	71	
1	115.7	115.7	4.6		2.9	5.5	55	
1	116.8	116.8	4.6		1.1	3.5	87	
1	118.7	118.7	4.7		1.9	4.5	67	
1	124.0	124.0	4.9		5.3	7.4	41	
1	125.3	125.3	4.9		1.3	3.8	81	
1	127.2	127.2	5.0		1.9	4.5	67	
1	127.8	127.8	5.0		0.6	2.6	117	
1	129.2	129.2	5.1		1.4	3.9	78	
1	131.4	131.4	5.2		2.2	4.8	63	
1	133.5	133.5	5.3		2.2	4.8	63	
1	137.5	137.5	5.4		4.0	6.5	47	
1	139.6	139.6	5.5		2.1	4.8	64	
1	143.6	143.6	5.7		4.0	6.5	47	
1	144.8	144.8	5.7		1.2	3.6	84	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-7.00
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

**GEOLABS, INC.**

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HONOLULU, OAHU, HAWAIILog of
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	147.8	147.8	5.8		3.0	5.6	54
1	150.3	150.3	5.9		2.5	5.2	59
1	151.3	151.3	6.0		1.0	3.3	91
1	154.4	154.4	6.1		3.1	5.7	53
1	157.6	157.6	6.2		3.2	5.8	52
1	158.3	158.3	6.2		0.7	2.8	108
1	160.9	160.9	6.3		2.6	5.3	58
1	165.0	165.0	6.5		4.1	6.5	47
1	166.8	166.8	6.6		1.8	4.4	69
1	167.8	167.8	6.6		1.0	3.3	91
1	168.3	168.3	6.6		0.5	2.4	127
1	172.8	172.8	6.8		4.5	6.8	45
1	173.3	173.3	6.8		0.5	2.4	127
1	176.9	176.9	7.0		3.6	6.1	50
1	180.0	180.0	7.1		3.1	5.7	53
1	185.8	185.8	7.3		5.8	7.7	40
1	190.3	190.3	7.5		4.5	6.8	45
1	194.8	194.8	7.7		4.5	6.8	45
1	199.0	199.0	7.8		4.2	6.6	46
1	207.1	207.1	8.2		8.1	9.0	34
1	217.7	217.7	8.6		10.6	10.3	30
1	229.5	229.5	9.0		11.8	10.8	28
1	240.2	240.2	9.5		10.7	10.3	30
1	255.5	255.5	10.1		15.3	12.2	25
1	267.6	267.6	10.5		12.1	11.0	28
1	285.5	285.5	11.2		17.9	13.2	23
1	309.0	309.0	12.2		23.5	15.0	20
1	336.2	336.2	13.2		27.2	16.1	19
1	368.3	368.3	14.5		32.1	17.4	17
1	401.0	401.0	15.8		32.7	17.6	17
1	444.3	444.3	17.5		43.3	20.1	15
1	482.0	482.0	19.0		37.7	18.8	16
1	515.2	515.2	20.3		33.2	17.7	17
1	540.8	540.8	21.3		25.6	15.7	19
1	563.0	563.0	22.2		22.2	14.6	21
1	577.8	577.8	22.7		14.8	12.1	25

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.01
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	591.3	591.3	23.3		13.5	11.5	26
1	603.6	603.6	23.8		12.3	11.0	28
1	618.0	618.0	24.3		14.4	11.9	26
1	633.8	633.8	25.0		15.8	12.4	25
1	653.6	653.6	25.7		19.8	13.8	22
1	675.8	675.8	26.6		22.2	14.6	21
1	713.5	713.5	28.1		37.7	18.8	16
1	751.2	751.2	29.6		37.7	18.8	16
1	788.9	788.9	31.1		37.7	18.8	16
1	838.7	838.7	33.0		49.8	21.5	14
1	892.3	892.3	35.1		53.6	22.3	14
1	947.9	947.9	37.3		55.6	22.7	13
1	975.2	975.2	38.4		27.3	16.1	19
1	1002.5	1002.5	39.5		27.3	16.1	19
1	1035.0	1035.0	40.7		32.5	17.5	17
1	1037.3	1037.3	40.8		2.3	5.0	61
1	1039.5	1039.5	40.9		2.2	4.9	63
1	1041.1	1041.1	41.0		1.6	4.2	73
1	1042.2	1042.2	41.0		1.1	3.5	87
1	1043.5	1043.5	41.1		1.3	3.8	81
1	1043.8	1043.8	41.1		0.3	1.9	162
1	1046.3	1046.3	41.2		2.5	5.2	59
1	1048.5	1048.5	41.3		2.2	4.9	63
1	1054.9	1054.9	41.5		6.4	8.1	38
1	1058.3	1058.3	41.7		3.4	6.0	51
1	1061.9	1061.9	41.8		3.6	6.1	50
1	1063.4	1063.4	41.9		1.5	4.0	75
1	1067.6	1067.6	42.0		4.2	6.6	46
1	1072.4	1072.4	42.2		4.8	7.0	43
1	1075.9	1075.9	42.4		3.5	6.1	50
1	1076.8	1076.8	42.4		0.9	3.2	96
1	1081.5	1081.5	42.6		4.7	7.0	44
1	1083.8	1083.8	42.7		2.3	5.0	61
1	1088.2	1088.2	42.8		4.4	6.8	45
1	1091.7	1091.7	43.0		3.5	6.1	50
1	1096.0	1096.0	43.1		4.3	6.7	46

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.02
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 107	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	1098.4	1098.4	43.2		2.4	5.1	60	
1	1100.8	1100.8	43.3		2.4	5.1	60	
1	1101.9	1101.9	43.4		1.1	3.5	87	
1	1103.3	1103.3	43.4		1.4	3.9	78	
1	1104.1	1104.1	43.5		0.8	3.0	102	
1	1105.0	1105.0	43.5		0.9	3.2	96	
1	1105.8	1105.8	43.5		0.8	3.0	102	
1	1106.9	1106.9	43.6		1.1	3.5	87	
1	1108.1	1108.1	43.6		1.2	3.6	84	
1	1108.8	1108.8	43.7		0.7	2.8	108	
1	1110.6	1110.6	43.7		1.8	4.4	69	
1	1112.4	1112.4	43.8		1.8	4.4	69	
1	1112.5	1112.5	43.8		0.1	1.1	274	
1	1113.0	1113.0	43.8		0.5	2.4	127	
1	1113.5	1113.5	43.8		0.5	2.4	127	
1	1113.6	1113.6	43.8		0.1	1.1	274	
1	1114.8	1114.8	43.9		1.2	3.6	84	
1	1115.5	1115.5	43.9		0.7	2.8	108	
1	1116.8	1116.8	44.0		1.3	3.8	81	
1	1116.9	1116.9	44.0		0.1	1.1	274	
1	1118.1	1118.1	44.0		1.2	3.6	84	
1	1118.9	1118.9	44.1		0.8	3.0	102	
1	1119.7	1119.7	44.1		0.8	2.9	105	
1	1120.4	1120.4	44.1		0.8	2.9	105	
1	1120.5	1120.5	44.1		0.1	1.1	274	
1	1121.2	1121.2	44.1		0.7	2.8	108	
1	1121.9	1121.9	44.2		0.7	2.8	108	
1	1122.0	1122.0	44.2		0.1	1.1	274	
1	1122.6	1122.6	44.2		0.6	2.6	117	
1	1123.2	1123.2	44.2		0.6	2.6	117	
1	1124.4	1124.4	44.3		1.2	3.6	84	
1	1125.6	1125.6	44.3		1.2	3.6	84	
1	1126.8	1126.8	44.4		1.2	3.6	84	
1	1127.0	1127.0	44.4		0.2	1.5	197	
1	1127.1	1127.1	44.4		0.1	1.1	274	
1	1128.1	1128.1	44.4		1.0	3.3	91	
Date Started:		1/17/2019	Water Level:		Not Encountered			Plate B-7.03
Date Completed:		1/17/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1128.9	1128.9	44.4		0.8	3.0	102
1	1131.2	1131.2	44.5		2.3	5.0	61
1	1132.3	1132.3	44.6		1.1	3.5	87
1	1133.4	1133.4	44.6		1.1	3.5	87
1	1135.3	1135.3	44.7		1.9	4.5	67
1	1136.1	1136.1	44.7		0.8	3.0	102
1	1137.5	1137.5	44.8		1.4	3.9	78
1	1139.8	1139.8	44.9		2.3	5.0	61
1	1141.1	1141.1	44.9		1.3	3.8	81
1	1141.8	1141.8	45.0		0.7	2.8	108
1	1142.8	1142.8	45.0		1.0	3.3	91
1	1144.3	1144.3	45.1		1.5	4.0	75
1	1145.2	1145.2	45.1		0.9	3.2	96
1	1147.2	1147.2	45.2		2.0	4.6	66
1	1147.6	1147.6	45.2		0.4	2.2	141
1	1148.4	1148.4	45.2		0.8	3.0	102
1	1149.9	1149.9	45.3		1.5	4.0	75
1	1151.1	1151.1	45.3		1.2	3.6	84
1	1152.7	1152.7	45.4		1.6	4.2	73
1	1154.7	1154.7	45.5		2.0	4.6	66
1	1155.7	1155.7	45.5		1.0	3.3	91
1	1157.2	1157.2	45.6		1.5	4.0	75
1	1158.3	1158.3	45.6		1.1	3.5	87
1	1159.7	1159.7	45.7		1.4	3.9	78
1	1160.9	1160.9	45.7		1.2	3.6	84
1	1162.6	1162.6	45.8		1.7	4.3	71
1	1164.5	1164.5	45.8		1.9	4.5	67
1	1165.5	1165.5	45.9		1.0	3.3	91
1	1167.2	1167.2	46.0		1.7	4.3	71
1	1170.8	1170.8	46.1		3.6	6.1	50
1	1172.6	1172.6	46.2		1.8	4.4	69
1	1175.0	1175.0	46.3		2.4	5.1	60
1	1177.1	1177.1	46.3		2.1	4.8	64
1	1181.1	1181.1	46.5		4.0	6.5	47
1	1183.3	1183.3	46.6		2.2	4.9	63
1	1186.1	1186.1	46.7		2.8	5.5	56

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.04
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1189.0	1189.0	46.8		2.9	5.5	55
1	1191.8	1191.8	46.9		2.8	5.5	56
1	1196.3	1196.3	47.1		4.5	6.8	45
1	1199.6	1199.6	47.2		3.3	5.9	52
1	1200.9	1200.9	47.3		1.3	3.8	81
1	1204.2	1204.2	47.4		3.3	5.9	52
1	1207.9	1207.9	47.6		3.7	6.2	49
1	1208.7	1208.7	47.6		0.8	3.0	102
1	1211.6	1211.6	47.7		2.9	5.5	55
1	1212.9	1212.9	47.8		1.3	3.8	81
1	1215.1	1215.1	47.8		2.2	4.9	63
1	1218.7	1218.7	48.0		3.6	6.1	50
1	1220.1	1220.1	48.0		1.4	3.9	78
1	1220.6	1220.6	48.1		0.5	2.4	127
1	1224.0	1224.0	48.2		3.4	6.0	51
1	1226.0	1226.0	48.3		2.0	4.6	66
1	1228.4	1228.4	48.4		2.4	5.1	60
1	1230.2	1230.2	48.4		1.8	4.4	69
1	1231.8	1231.8	48.5		1.6	4.2	73
1	1232.7	1232.7	48.5		0.9	3.2	96
1	1235.7	1235.7	48.6		3.0	5.6	54
1	1237.9	1237.9	48.7		2.2	4.9	63
1	1239.2	1239.2	48.8		1.3	3.8	81
1	1241.4	1241.4	48.9		2.2	4.9	63
1	1242.2	1242.2	48.9		0.8	3.0	102
1	1244.7	1244.7	49.0		2.5	5.2	59
1	1245.8	1245.8	49.0		1.1	3.5	87
1	1248.9	1248.9	49.2		3.1	5.7	53
1	1250.9	1250.9	49.2		2.0	4.6	66
1	1252.5	1252.5	49.3		1.6	4.2	73
1	1253.3	1253.3	49.3		0.8	3.0	102
1	1254.9	1254.9	49.4		1.6	4.2	73
1	1257.4	1257.4	49.5		2.5	5.2	59
1	1259.8	1259.8	49.6		2.4	5.1	60
1	1261.5	1261.5	49.7		1.7	4.3	71
1	1263.4	1263.4	49.7		1.9	4.5	67

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.05
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1266.5	1266.5	49.9		3.1	5.7	53
1	1269.7	1269.7	50.0		3.2	5.8	52
1	1270.8	1270.8	50.0		1.1	3.5	87
1	1273.0	1273.0	50.1		2.2	4.9	63
1	1275.2	1275.2	50.2		2.2	4.9	63
1	1277.8	1277.8	50.3		2.6	5.3	58
1	1280.6	1280.6	50.4		2.8	5.5	56
1	1284.0	1284.0	50.6		3.4	6.0	51
1	1286.5	1286.5	50.6		2.5	5.2	59
1	1289.6	1289.6	50.8		3.1	5.7	53
1	1292.7	1292.7	50.9		3.1	5.7	53
1	1295.0	1295.0	51.0		2.3	5.0	61
1	1299.5	1299.5	51.2		4.5	6.8	45
1	1301.9	1301.9	51.3		2.4	5.1	60
1	1305.6	1305.6	51.4		3.7	6.2	49
1	1308.4	1308.4	51.5		2.8	5.5	56
1	1312.6	1312.6	51.7		4.2	6.6	46
1	1315.5	1315.5	51.8		2.9	5.5	55
1	1319.2	1319.2	51.9		3.7	6.2	49
1	1321.9	1321.9	52.0		2.7	5.4	57
1	1325.8	1325.8	52.2		3.9	6.4	48
1	1328.9	1328.9	52.3		3.1	5.7	53
1	1331.3	1331.3	52.4		2.4	5.1	60
1	1334.0	1334.0	52.5		2.7	5.4	57
1	1337.3	1337.3	52.6		3.3	5.9	52
1	1340.8	1340.8	52.8		3.5	6.1	50
1	1343.3	1343.3	52.9		2.5	5.2	59
1	1346.5	1346.5	53.0		3.2	5.8	52
1	1350.6	1350.6	53.2		4.1	6.5	47
1	1352.8	1352.8	53.3		2.2	4.9	63
1	1357.0	1357.0	53.4		4.2	6.6	46
1	1360.0	1360.0	53.5		3.0	5.6	54
1	1362.9	1362.9	53.7		2.9	5.5	55
1	1365.6	1365.6	53.8		2.7	5.4	57
1	1369.0	1369.0	53.9		3.4	6.0	51
1	1372.2	1372.2	54.0		3.2	5.8	52

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.06
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/17/2019	Water Level:	Not Encountered	Plate B-7.07
Date Completed:	1/17/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 108	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	7.1	7.1	0.3		7.1	8.5	36	
1	12.0	12.0	0.5		4.9	7.1	43	
1	13.1	13.1	0.5		1.1	3.5	87	
1	15.2	15.2	0.6		2.1	4.8	64	
1	16.6	16.6	0.7		1.4	3.9	78	
1	18.7	18.7	0.7		2.1	4.8	64	
1	20.2	20.2	0.8		1.5	4.0	75	
1	21.6	21.6	0.9		1.4	3.9	78	
1	24.5	24.5	1.0		2.9	5.5	55	
1	27.1	27.1	1.1		2.6	5.3	58	
1	28.8	28.8	1.1		1.7	4.3	71	
1	30.4	30.4	1.2		1.6	4.2	73	
1	31.1	31.1	1.2		0.7	2.8	108	
1	32.7	32.7	1.3		1.6	4.2	73	
1	32.9	32.9	1.3		0.2	1.5	197	
1	34.9	34.9	1.4		2.0	4.6	66	
1	35.5	35.5	1.4		0.6	2.6	117	
1	36.1	36.1	1.4		0.6	2.6	117	
1	36.8	36.8	1.4		0.7	2.8	108	
1	38.0	38.0	1.5		1.2	3.6	84	
1	39.0	39.0	1.5		1.0	3.3	91	
1	40.8	40.8	1.6		1.8	4.4	69	
1	41.7	41.7	1.6		0.9	3.1	99	
1	42.5	42.5	1.7		0.9	3.1	99	
1	42.7	42.7	1.7		0.2	1.5	197	
1	43.1	43.1	1.7		0.4	2.2	141	
1	43.9	43.9	1.7		0.8	3.0	102	
1	45.6	45.6	1.8		1.7	4.2	72	
1	47.2	47.2	1.9		1.7	4.2	72	
1	48.1	48.1	1.9		0.9	3.2	96	
1	49.0	49.0	1.9		0.9	3.2	96	
1	51.6	51.6	2.0		2.6	5.3	58	
1	54.2	54.2	2.1		2.6	5.3	58	
1	55.5	55.5	2.2		1.3	3.7	82	
1	56.7	56.7	2.2		1.3	3.7	82	
1	57.6	57.6	2.3		0.9	3.2	96	
Date Started:		1/18/2019	Water Level:		Not Encountered			Plate B-8.00
Date Completed:		1/18/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	59.3	59.3	2.3		1.7	4.3	71
1	60.6	60.6	2.4		1.3	3.8	81
1	61.9	61.9	2.4		1.3	3.8	81
1	66.0	66.0	2.6		4.1	6.5	47
1	66.9	66.9	2.6		0.9	3.2	96
1	67.1	67.1	2.6		0.2	1.5	197
1	68.2	68.2	2.7		1.1	3.4	89
1	69.2	69.2	2.7		1.1	3.4	89
1	70.3	70.3	2.8		1.1	3.5	87
1	71.2	71.2	2.8		0.9	3.2	96
1	72.1	72.1	2.8		0.9	3.2	96
1	352.1	352.1	13.9		280.0	49.0	6
1	389.4	389.4	15.3		37.3	18.7	16
1	408.4	408.4	16.1		19.0	13.6	22
1	422.7	422.7	16.6		14.3	11.9	26
1	435.2	435.2	17.1		12.5	11.1	27
1	448.8	448.8	17.7		13.6	11.6	26
1	461.3	461.3	18.2		12.5	11.1	27
1	472.9	472.9	18.6		11.6	10.7	28
1	488.1	488.1	19.2		15.2	12.2	25
1	503.9	503.9	19.8		15.8	12.4	25
1	520.4	520.4	20.5		16.5	12.7	24
1	536.9	536.9	21.1		16.5	12.7	24
1	554.3	554.3	21.8		17.4	13.0	23
1	571.9	571.9	22.5		17.6	13.1	23
1	590.7	590.7	23.3		18.8	13.5	23
1	608.9	608.9	24.0		18.2	13.3	23
1	624.6	624.6	24.6		15.7	12.4	25
1	638.8	638.8	25.1		14.2	11.8	26
1	652.7	652.7	25.7		13.9	11.7	26
1	666.3	666.3	26.2		13.6	11.6	26
1	680.2	680.2	26.8		13.9	11.7	26
1	702.4	702.4	27.7		22.2	14.6	21
1	727.6	727.6	28.6		25.2	15.5	20
1	754.4	754.4	29.7		26.8	16.0	19
1	774.7	774.7	30.5		20.3	14.0	22

Date Started:	1/18/2019	Water Level:	Not Encountered	Plate B-8.01
Date Completed:	1/18/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	791.3	791.3	31.2		16.6	12.7	24
1	806.7	806.7	31.8		15.4	12.3	25
1	822.9	822.9	32.4		16.2	12.6	24
1	837.7	837.7	33.0		14.8	12.1	25
1	850.7	850.7	33.5		13.0	11.3	27
1	857.8	857.8	33.8		7.1	8.5	36
1	864.0	864.0	34.0		6.2	8.0	38
1	869.8	869.8	34.2		5.8	7.7	40
1	875.7	875.7	34.5		5.9	7.8	39
1	881.1	881.1	34.7		5.4	7.5	41
1	885.5	885.5	34.9		4.4	6.8	45
1	890.1	890.1	35.0		4.6	6.9	44
1	896.9	896.9	35.3		6.8	8.3	37
1	901.0	901.0	35.5		4.1	6.5	47
1	908.0	908.0	35.7		7.0	8.4	36
1	914.9	914.9	36.0		6.9	8.4	36
1	923.3	923.3	36.4		8.4	9.2	33
1	934.2	934.2	36.8		10.9	10.4	29
1	952.2	952.2	37.5		18.0	13.2	23
1	973.5	973.5	38.3		21.3	14.3	21
1	984.2	984.2	38.7		10.7	10.3	30
1	991.1	991.1	39.0		6.9	8.4	36
1	997.6	997.6	39.3		6.5	8.1	37
1	1002.8	1002.8	39.5		5.2	7.3	42
1	1008.7	1008.7	39.7		5.9	7.8	39
1	1014.1	1014.1	39.9		5.4	7.5	41
1	1019.7	1019.7	40.1		5.6	7.6	40
1	1025.7	1025.7	40.4		6.0	7.8	39
1	1033.0	1033.0	40.7		7.3	8.6	35
1	1041.4	1041.4	41.0		8.4	9.2	33
1	1049.5	1049.5	41.3		8.1	9.0	34
1	1060.1	1060.1	41.7		10.6	10.3	30
1	1071.5	1071.5	42.2		11.4	10.6	29
1	1082.9	1082.9	42.6		11.4	10.6	29
1	1095.9	1095.9	43.1		13.0	11.3	27
1	1110.6	1110.6	43.7		14.7	12.0	25

Date Started:	1/18/2019	Water Level:	Not Encountered	Plate B-8.02
Date Completed:	1/18/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 108
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	1126.6	1126.6	44.4		16.0	12.5	24
1	1140.8	1140.8	44.9		14.2	11.8	26
1	1153.1	1153.1	45.4		12.3	11.0	28
1	1163.9	1163.9	45.8		10.8	10.4	29
1	1174.7	1174.7	46.2		10.8	10.4	29
1	1185.4	1185.4	46.7		10.7	10.3	30
1	1195.8	1195.8	47.1		10.4	10.2	30
1	1206.0	1206.0	47.5		10.2	10.1	30
1	1217.2	1217.2	47.9		11.2	10.6	29
1	1227.1	1227.1	48.3		9.9	10.0	31
1	1236.0	1236.0	48.7		8.9	9.5	32
1	1244.0	1244.0	49.0		8.0	9.0	34
1	1251.2	1251.2	49.3		7.2	8.6	36
1	1257.6	1257.6	49.5		6.4	8.1	38
1	1261.7	1261.7	49.7		4.1	6.5	47
1	1267.2	1267.2	49.9		5.5	7.5	41
1	1269.7	1269.7	50.0		2.5	5.2	59
1	1272.9	1272.9	50.1		3.2	5.8	52
1	1275.2	1275.2	50.2		2.3	5.0	61
1	1277.5	1277.5	50.3		2.3	5.0	61
1	1280.4	1280.4	50.4		2.9	5.5	55
1	1281.7	1281.7	50.5		1.3	3.8	81
1	1283.8	1283.8	50.5		2.1	4.8	64
1	1285.6	1285.6	50.6		1.8	4.4	69
1	1287.6	1287.6	50.7		2.0	4.6	66
1	1290.3	1290.3	50.8		2.7	5.4	57
1	1292.1	1292.1	50.9		1.8	4.4	69
1	1295.0	1295.0	51.0		2.9	5.5	55
1	1297.8	1297.8	51.1		2.8	5.5	56
1	1300.4	1300.4	51.2		2.6	5.3	58
1	1304.1	1304.1	51.3		3.7	6.2	49
1	1308.3	1308.3	51.5		4.2	6.6	46
1	1314.7	1314.7	51.8		6.4	8.1	38
1	1322.0	1322.0	52.0		7.3	8.6	35
1	1330.9	1330.9	52.4		8.9	9.5	32
1	1340.3	1340.3	52.8		9.4	9.7	31
Date Started:		1/18/2019	Water Level:		Not Encountered		Plate B-8.03
Date Completed:		1/18/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

Date Started:	1/18/2019	Water Level:	Not Encountered	Plate B-8.04
Date Completed:	1/18/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 109	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	11.5	11.5	0.5		11.5	10.7	29	
1	16.5	16.5	0.6		5.0	7.2	42	
1	19.1	19.1	0.8		2.6	5.3	58	
1	21.9	21.9	0.9		2.8	5.5	56	
1	23.9	23.9	0.9		2.0	4.6	66	
1	27.0	27.0	1.1		3.1	5.7	53	
1	30.9	30.9	1.2		3.9	6.4	48	
1	32.8	32.8	1.3		1.9	4.5	67	
1	36.3	36.3	1.4		3.5	6.1	50	
1	38.8	38.8	1.5		2.5	5.2	59	
1	41.7	41.7	1.6		2.9	5.5	55	
1	45.1	45.1	1.8		3.4	6.0	51	
1	47.2	47.2	1.9		2.1	4.8	64	
1	49.4	49.4	1.9		2.2	4.9	63	
1	51.6	51.6	2.0		2.2	4.9	63	
1	53.9	53.9	2.1		2.3	5.0	61	
1	55.2	55.2	2.2		1.3	3.8	81	
1	57.0	57.0	2.2		1.8	4.4	69	
1	59.2	59.2	2.3		2.2	4.9	63	
1	60.5	60.5	2.4		1.3	3.8	81	
1	63.4	63.4	2.5		2.9	5.5	55	
1	65.6	65.6	2.6		2.2	4.9	63	
1	67.3	67.3	2.6		1.7	4.3	71	
1	68.6	68.6	2.7		1.3	3.8	81	
1	70.1	70.1	2.8		1.5	4.0	75	
1	72.7	72.7	2.9		2.6	5.3	58	
1	74.5	74.5	2.9		1.8	4.4	69	
1	76.3	76.3	3.0		1.8	4.4	69	
1	78.3	78.3	3.1		2.0	4.6	66	
1	81.5	81.5	3.2		3.2	5.8	52	
1	82.4	82.4	3.2		0.9	3.2	96	
1	83.3	83.3	3.3		0.9	3.2	96	
1	86.2	86.2	3.4		2.9	5.5	55	
1	87.2	87.2	3.4		1.0	3.3	91	
1	90.1	90.1	3.5		2.9	5.5	55	
1	97.5	97.5	3.8		7.4	8.7	35	
Date Started:		1/24/2019	Water Level:		Not Encountered			Plate B-9.00
Date Completed:		1/24/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		2.9'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 109	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	100.2	100.2	3.9		2.7	5.4	57	
1	104.2	104.2	4.1		4.0	6.5	47	
1	104.3	104.3	4.1		0.1	1.1	274	
1	104.4	104.4	4.1		0.1	1.1	274	
1	106.8	106.8	4.2		2.4	5.1	60	
1	114.3	114.3	4.5		7.5	8.7	35	
1	115.6	115.6	4.6		1.3	3.8	81	
1	116.5	116.5	4.6		0.8	3.1	99	
1	117.3	117.3	4.6		0.9	3.1	99	
1	119.2	119.2	4.7		1.9	4.5	67	
1	121.6	121.6	4.8		2.4	5.1	60	
1	123.7	123.7	4.9		2.1	4.8	64	
1	125.0	125.0	4.9		1.3	3.8	81	
1	126.6	126.6	5.0		1.6	4.2	73	
1	129.0	129.0	5.1		2.4	5.1	60	
1	130.5	130.5	5.1		1.5	4.0	75	
1	132.1	132.1	5.2		1.6	4.2	73	
1	133.9	133.9	5.3		1.8	4.4	69	
1	136.7	136.7	5.4		2.8	5.5	56	
1	138.6	138.6	5.5		1.9	4.5	67	
1	140.7	140.7	5.5		2.1	4.8	64	
1	142.2	142.2	5.6		1.5	4.0	75	
1	145.4	145.4	5.7		3.2	5.8	52	
1	146.6	146.6	5.8		1.2	3.6	84	
1	148.0	148.0	5.8		1.4	3.9	78	
1	149.9	149.9	5.9		1.9	4.5	67	
1	153.3	153.3	6.0		3.4	6.0	51	
1	154.8	154.8	6.1		1.5	4.0	75	
1	157.3	157.3	6.2		2.5	5.2	59	
1	159.8	159.8	6.3		2.5	5.2	59	
1	162.2	162.2	6.4		2.4	5.1	60	
1	165.1	165.1	6.5		2.9	5.5	55	
1	167.3	167.3	6.6		2.2	4.9	63	
1	168.9	168.9	6.6		1.6	4.2	73	
1	170.6	170.6	6.7		1.7	4.3	71	
1	172.4	172.4	6.8		1.8	4.4	69	
Date Started:		1/24/2019	Water Level:		Not Encountered			Plate B-9.01
Date Completed:		1/24/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		2.9'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 109	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	175.3	175.3	6.9		2.9	5.5	55	
1	176.7	176.7	7.0		1.4	3.9	78	
1	180.8	180.8	7.1		4.1	6.5	47	
1	184.0	184.0	7.2		3.2	5.8	52	
1	187.5	187.5	7.4		3.5	6.1	50	
1	189.9	189.9	7.5		2.4	5.1	60	
1	191.0	191.0	7.5		1.1	3.5	87	
1	194.4	194.4	7.7		3.4	6.0	51	
1	197.7	197.7	7.8		3.3	5.9	52	
1	201.0	201.0	7.9		3.3	5.9	52	
1	203.8	203.8	8.0		2.8	5.5	56	
1	208.0	208.0	8.2		4.2	6.6	46	
1	210.9	210.9	8.3		2.9	5.5	55	
1	213.9	213.9	8.4		3.0	5.6	54	
1	218.1	218.1	8.6		4.2	6.6	46	
1	219.9	219.9	8.7		1.8	4.4	69	
1	222.8	222.8	8.8		2.9	5.5	55	
1	225.9	225.9	8.9		3.1	5.7	53	
1	229.6	229.6	9.0		3.7	6.2	49	
1	233.0	233.0	9.2		3.4	6.0	51	
1	237.5	237.5	9.4		4.5	6.8	45	
1	242.4	242.4	9.5		4.9	7.1	43	
1	245.3	245.3	9.7		2.9	5.5	55	
1	250.1	250.1	9.8		4.8	7.0	43	
1	254.0	254.0	10.0		3.9	6.4	48	
1	258.4	258.4	10.2		4.4	6.8	45	
1	267.1	267.1	10.5		8.7	9.4	33	
1	275.8	275.8	10.9		8.7	9.4	33	
1	283.8	283.8	11.2		8.0	9.0	34	
1	291.2	291.2	11.5		7.4	8.7	35	
1	297.2	297.2	11.7		6.0	7.8	39	
1	303.0	303.0	11.9		5.8	7.7	40	
1	307.5	307.5	12.1		4.5	6.8	45	
1	311.6	311.6	12.3		4.1	6.5	47	
1	315.7	315.7	12.4		4.1	6.5	47	
1	320.4	320.4	12.6		4.7	7.0	44	
Date Started:		1/24/2019	Water Level:		Not Encountered			Plate B-9.02
Date Completed:		1/24/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		2.9'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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PALI HIGHWAY RESURFACING
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	323.7	323.7	12.7		3.3	5.9	52
1	327.0	327.0	12.9		3.3	5.9	52
1	330.0	330.0	13.0		3.0	5.6	54
1	334.0	334.0	13.1		4.0	6.5	47
1	336.8	336.8	13.3		2.8	5.5	56
1	340.3	340.3	13.4		3.5	6.1	50
1	344.4	344.4	13.6		4.1	6.5	47
1	347.2	347.2	13.7		2.8	5.5	56
1	351.4	351.4	13.8		4.2	6.6	46
1	355.3	355.3	14.0		3.9	6.4	48
1	359.1	359.1	14.1		3.8	6.3	48
1	362.1	362.1	14.3		3.0	5.6	54
1	363.0	363.0	14.3		0.9	3.2	96
1	364.0	364.0	14.3		1.0	3.3	91
1	366.1	366.1	14.4		2.1	4.8	64
1	369.1	369.1	14.5		3.0	5.6	54
1	371.2	371.2	14.6		2.1	4.8	64
1	373.8	373.8	14.7		2.6	5.3	58
1	376.3	376.3	14.8		2.5	5.2	59
1	378.2	378.2	14.9		1.9	4.5	67
1	379.2	379.2	14.9		1.0	3.3	91
1	381.7	381.7	15.0		2.5	5.2	59
1	382.9	382.9	15.1		1.2	3.6	84
1	383.3	383.3	15.1		0.4	2.2	141
1	384.6	384.6	15.1		1.3	3.8	81
1	386.3	386.3	15.2		1.7	4.3	71
1	388.1	388.1	15.3		1.8	4.4	69
1	390.7	390.7	15.4		2.6	5.3	58
1	392.8	392.8	15.5		2.1	4.8	64
1	393.8	393.8	15.5		1.0	3.3	91
1	394.8	394.8	15.5		1.0	3.3	91
1	398.2	398.2	15.7		3.4	6.0	51
1	402.3	402.3	15.8		4.1	6.5	47
1	406.8	406.8	16.0		4.5	6.8	45
1	411.5	411.5	16.2		4.7	7.0	44
1	418.0	418.0	16.5		6.5	8.1	37

Date Started:	1/24/2019	Water Level:	Not Encountered	Plate B-9.03
Date Completed:	1/24/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	423.5	423.5	16.7		5.5	7.5	41
1	428.9	428.9	16.9		5.4	7.5	41
1	433.3	433.3	17.1		4.4	6.8	45
1	438.6	438.6	17.3		5.3	7.4	41
1	443.3	443.3	17.5		4.7	7.0	44
1	448.4	448.4	17.7		5.1	7.3	42
1	452.4	452.4	17.8		4.0	6.5	47
1	457.5	457.5	18.0		5.1	7.3	42
1	463.4	463.4	18.2		5.9	7.8	39
1	469.5	469.5	18.5		6.1	7.9	39
1	479.2	479.2	18.9		9.7	9.9	31
1	489.9	489.9	19.3		10.7	10.3	30
1	498.4	498.4	19.6		8.5	9.3	33
1	507.0	507.0	20.0		8.6	9.3	33
1	513.5	513.5	20.2		6.5	8.1	37
1	519.0	519.0	20.4		5.5	7.5	41
1	525.5	525.5	20.7		6.5	8.1	37
1	530.0	530.0	20.9		4.5	6.8	45
1	535.8	535.8	21.1		5.8	7.7	40
1	540.9	540.9	21.3		5.1	7.3	42
1	546.0	546.0	21.5		5.1	7.3	42
1	550.2	550.2	21.7		4.2	6.6	46
1	554.2	554.2	21.8		4.0	6.5	47
1	559.0	559.0	22.0		4.8	7.0	43
1	563.6	563.6	22.2		4.6	6.9	44
1	566.4	566.4	22.3		2.8	5.5	56
1	569.7	569.7	22.4		3.3	5.9	52
1	574.1	574.1	22.6		4.4	6.8	45
1	574.3	574.3	22.6		0.2	1.5	197
1	577.6	577.6	22.7		3.3	5.9	52
1	580.1	580.1	22.8		2.5	5.2	59
1	582.5	582.5	22.9		2.4	5.1	60
1	584.3	584.3	23.0		1.8	4.4	69
1	586.0	586.0	23.1		1.7	4.3	71
1	586.8	586.8	23.1		0.8	3.0	102
1	589.0	589.0	23.2		2.2	4.9	63

Date Started:	1/24/2019	Water Level:	Not Encountered	Plate B-9.04
Date Completed:	1/24/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 109
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	590.0	590.0	23.2		1.0	3.3	91
1	591.3	591.3	23.3		1.3	3.8	81
1	593.0	593.0	23.3		1.7	4.3	71
1	594.0	594.0	23.4		1.0	3.3	91
1	595.6	595.6	23.4		1.6	4.2	73
1	596.2	596.2	23.5		0.6	2.6	117
1	597.3	597.3	23.5		1.1	3.5	87
1	598.3	598.3	23.6		1.0	3.3	91
1	599.7	599.7	23.6		1.4	3.9	78
1	600.7	600.7	23.6		1.0	3.3	91
1	601.4	601.4	23.7		0.7	2.8	108
1	601.5	601.5	23.7		0.1	1.1	274
1	603.6	603.6	23.8		2.1	4.8	64
1	604.5	604.5	23.8		0.9	3.2	96
1	605.7	605.7	23.8		1.2	3.6	84
1	607.0	607.0	23.9		1.3	3.8	81
1	607.9	607.9	23.9		0.9	3.2	96
1	609.1	609.1	24.0		1.2	3.6	84
1	609.8	609.8	24.0		0.7	2.8	108
1	611.3	611.3	24.1		1.5	4.0	75
1	612.6	612.6	24.1		1.3	3.8	81
1	613.6	613.6	24.2		1.0	3.3	91
1	615.1	615.1	24.2		1.5	4.0	75
1	616.1	616.1	24.3		1.0	3.3	91
1	617.4	617.4	24.3		1.3	3.8	81
1	618.9	618.9	24.4		1.5	4.0	75
1	621.2	621.2	24.5		2.3	5.0	61
1	623.1	623.1	24.5		1.9	4.5	67
1	625.5	625.5	24.6		2.4	5.1	60
1	627.8	627.8	24.7		2.3	5.0	61
1	630.4	630.4	24.8		2.6	5.3	58
1	632.5	632.5	24.9		2.1	4.8	64
1	634.9	634.9	25.0		2.4	5.1	60
1	637.3	637.3	25.1		2.4	5.1	60
1	639.3	639.3	25.2		2.0	4.6	66
1	641.8	641.8	25.3		2.5	5.2	59
Date Started:		1/24/2019	Water Level:		Not Encountered		Plate B-9.05
Date Completed:		1/24/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		2.9'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 109
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	644.6	644.6	25.4		2.8	5.5	56
1	647.4	647.4	25.5		2.8	5.5	56
1	649.7	649.7	25.6		2.3	5.0	61
1	652.2	652.2	25.7		2.5	5.2	59
1	654.9	654.9	25.8		2.7	5.4	57
1	656.8	656.8	25.9		1.9	4.5	67
1	658.8	658.8	25.9		2.0	4.6	66
1	661.3	661.3	26.0		2.5	5.2	59
1	663.1	663.1	26.1		1.8	4.4	69
1	666.9	666.9	26.3		3.8	6.3	48
1	669.7	669.7	26.4		2.8	5.5	56
1	673.6	673.6	26.5		3.9	6.4	48
1	677.5	677.5	26.7		3.9	6.4	48
1	680.1	680.1	26.8		2.6	5.3	58
1	683.3	683.3	26.9		3.2	5.8	52
1	687.1	687.1	27.1		3.8	6.3	48
1	690.2	690.2	27.2		3.1	5.7	53
1	694.4	694.4	27.3		4.2	6.6	46
1	698.9	698.9	27.5		4.5	6.8	45
1	702.0	702.0	27.6		3.1	5.7	53
1	705.2	705.2	27.8		3.2	5.8	52
1	709.3	709.3	27.9		4.1	6.5	47
1	713.1	713.1	28.1		3.8	6.3	48
1	717.2	717.2	28.2		4.1	6.5	47
1	721.0	721.0	28.4		3.8	6.3	48
1	725.4	725.4	28.6		4.4	6.8	45
1	729.4	729.4	28.7		4.0	6.5	47
1	734.7	734.7	28.9		5.3	7.4	41
1	738.7	738.7	29.1		4.0	6.5	47
1	743.9	743.9	29.3		5.2	7.3	42
1	746.3	746.3	29.4		2.4	5.1	60
1	748.7	748.7	29.5		2.4	5.1	60
1	753.7	753.7	29.7		5.0	7.2	42
1	759.4	759.4	29.9		5.7	7.6	40
1	768.1	768.1	30.2		8.7	9.4	33
1	777.4	777.4	30.6		9.3	9.7	32
Date Started:		1/24/2019	Water Level:		Not Encountered		Plate B-9.06
Date Completed:		1/24/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		2.9'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	786.6	786.6	31.0		9.2	9.6	32
1	794.2	794.2	31.3		7.6	8.8	35
1	801.5	801.5	31.6		7.3	8.6	35
1	808.7	808.7	31.8		7.2	8.6	36
1	814.5	814.5	32.1		5.8	7.7	40
1	822.1	822.1	32.4		7.6	8.8	35
1	826.5	826.5	32.5		4.4	6.8	45
1	831.8	831.8	32.7		5.3	7.4	41
1	836.1	836.1	32.9		4.3	6.7	46
1	841.5	841.5	33.1		5.4	7.5	41
1	845.9	845.9	33.3		4.4	6.8	45
1	848.9	848.9	33.4		3.0	5.6	54
1	850.5	850.5	33.5		1.6	4.2	73
1	852.8	852.8	33.6		2.3	5.0	61
1	855.0	855.0	33.7		2.2	4.9	63
1	857.1	857.1	33.7		2.1	4.8	64
1	858.6	858.6	33.8		1.5	4.0	75
1	860.1	860.1	33.9		1.5	4.0	75
1	861.8	861.8	33.9		1.7	4.3	71
1	862.6	862.6	34.0		0.8	2.9	105
1	863.3	863.3	34.0		0.8	2.9	105
1	864.6	864.6	34.0		1.3	3.8	81
1	866.7	866.7	34.1		2.1	4.8	64
1	869.3	869.3	34.2		2.6	5.3	58
1	869.6	869.6	34.2		0.3	1.9	162
1	869.9	869.9	34.2		0.3	1.9	162
1	871.0	871.0	34.3		1.1	3.5	87
1	871.2	871.2	34.3		0.2	1.5	197
1	871.4	871.4	34.3		0.2	1.5	197
1	872.0	872.0	34.3		0.6	2.6	117
1	872.6	872.6	34.4		0.6	2.6	117
1	873.1	873.1	34.4		0.5	2.4	127
1	873.2	873.2	34.4		0.1	1.1	274
1	873.8	873.8	34.4		0.5	2.5	121
1	874.3	874.3	34.4		0.5	2.5	121
1	874.5	874.5	34.4		0.2	1.5	197

Date Started:	1/24/2019	Water Level:	Not Encountered	Plate B-9.07
Date Completed:	1/24/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/24/2019	Water Level:	Not Encountered	Plate B-9.08
Date Completed:	1/24/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	2.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/24/2019	Water Level:	Not Encountered	Plate B-10.00
Date Completed:	1/24/2019			
Logged By:	K.G.	Probing Equipment:	DCP H-4219	
Total Depth:	0.4'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 111
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	5.4	5.4	0.2		5.4	7.5	41
1	7.2	7.2	0.3		1.8	4.4	69
1	11.2	11.2	0.4		4.0	6.5	47
1	14.8	14.8	0.6		3.6	6.1	50
1	18.5	18.5	0.7		3.7	6.2	49
1	23.7	23.7	0.9		5.2	7.3	42
1	28.1	28.1	1.1		4.4	6.8	45
1	32.1	32.1	1.3		4.0	6.5	47
1	36.4	36.4	1.4		4.3	6.7	46
1	39.7	39.7	1.6		3.3	5.9	52
1	41.6	41.6	1.6		1.9	4.5	67
1	46.5	46.5	1.8		4.9	7.1	43
1	48.6	48.6	1.9		2.1	4.8	64
1	51.8	51.8	2.0		3.2	5.8	52
1	55.4	55.4	2.2		3.6	6.1	50
1	58.8	58.8	2.3		3.4	6.0	51
1	64.8	64.8	2.6		6.0	7.8	39
1	67.5	67.5	2.7		2.7	5.4	57
1	70.3	70.3	2.8		2.8	5.5	56
1	73.3	73.3	2.9		3.0	5.6	54
1	76.4	76.4	3.0		3.1	5.7	53
1	78.2	78.2	3.1		1.8	4.4	69
1	81.4	81.4	3.2		3.2	5.8	52
1	83.0	83.0	3.3		1.6	4.2	73
1	85.3	85.3	3.4		2.3	5.0	61
1	86.9	86.9	3.4		1.6	4.2	73
1	91.2	91.2	3.6		4.3	6.7	46
1	93.3	93.3	3.7		2.1	4.8	64
1	96.8	96.8	3.8		3.5	6.1	50
1	100.0	100.0	3.9		3.2	5.8	52
1	102.9	102.9	4.1		2.9	5.5	55
1	105.7	105.7	4.2		2.8	5.5	56
1	107.9	107.9	4.2		2.2	4.9	63
1	109.3	109.3	4.3		1.4	3.9	78
1	110.8	110.8	4.4		1.5	4.0	75
1	113.0	113.0	4.4		2.2	4.9	63
Date Started:		1/25/2019	Water Level:		Not Encountered		Plate B-11.00
Date Completed:		1/25/2019					
Logged By:		K.G.	Probing Equipment:		DCP H-4219		
Total Depth:		3.9'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

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PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	113.5	113.5	4.5		0.5	2.4	127
1	115.5	115.5	4.5		2.0	4.6	66
1	118.0	118.0	4.6		2.5	5.2	59
1	119.6	119.6	4.7		1.6	4.2	73
1	122.6	122.6	4.8		3.0	5.6	54
1	123.2	123.2	4.9		0.6	2.6	117
1	124.1	124.1	4.9		0.9	3.2	96
1	124.4	124.4	4.9		0.3	1.9	162
1	127.2	127.2	5.0		2.8	5.5	56
1	127.4	127.4	5.0		0.2	1.5	197
1	130.7	130.7	5.1		3.3	5.9	52
1	131.8	131.8	5.2		1.1	3.5	87
1	133.8	133.8	5.3		2.0	4.6	66
1	135.1	135.1	5.3		1.3	3.8	81
1	136.4	136.4	5.4		1.3	3.8	81
1	137.8	137.8	5.4		1.4	3.9	78
1	138.7	138.7	5.5		0.9	3.2	96
1	140.6	140.6	5.5		1.9	4.5	67
1	141.8	141.8	5.6		1.2	3.6	84
1	143.0	143.0	5.6		1.2	3.6	84
1	144.6	144.6	5.7		1.6	4.2	73
1	145.4	145.4	5.7		0.8	3.0	102
1	147.6	147.6	5.8		2.2	4.8	63
1	149.7	149.7	5.9		2.1	4.8	63
1	151.6	151.6	6.0		1.9	4.5	67
1	153.5	153.5	6.0		1.9	4.5	67
1	154.2	154.2	6.1		0.7	2.8	108
1	157.0	157.0	6.2		2.8	5.5	56
1	157.1	157.1	6.2		0.1	1.1	274
1	159.0	159.0	6.3		1.9	4.5	67
1	161.2	161.2	6.3		2.2	4.9	63
1	162.1	162.1	6.4		0.9	3.2	96
1	163.0	163.0	6.4		0.9	3.2	96
1	164.5	164.5	6.5		1.5	4.0	75
1	165.5	165.5	6.5		1.0	3.3	91
1	167.0	167.0	6.6		1.5	4.0	75

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-11.01
Date Completed:	1/25/2019			
Logged By:	K.G.	Probing Equipment:	DCP H-4219	
Total Depth:	3.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	167.5	167.5	6.6		0.5	2.4	127
1	169.6	169.6	6.7		2.1	4.8	64
1	170.7	170.7	6.7		1.1	3.5	87
1	171.8	171.8	6.8		1.1	3.5	87
1	258.4	258.4	10.2		86.6	28.0	11
1	265.1	265.1	10.4		6.7	8.3	37
1	269.7	269.7	10.6		4.6	6.9	44
1	274.0	274.0	10.8		4.3	6.7	46
1	278.6	278.6	11.0		4.6	6.9	44
1	283.8	283.8	11.2		5.2	7.3	42
1	289.1	289.1	11.4		5.3	7.4	41
1	295.2	295.2	11.6		6.1	7.9	39
1	302.2	302.2	11.9		7.0	8.4	36
1	310.6	310.6	12.2		8.4	9.2	33
1	319.2	319.2	12.6		8.6	9.3	33
1	328.5	328.5	12.9		9.3	9.7	32
1	338.3	338.3	13.3		9.8	9.9	31
1	346.6	346.6	13.6		8.3	9.2	33
1	348.1	348.1	13.7		1.5	4.0	75
1	356.8	356.8	14.0		8.7	9.4	33
1	364.4	364.4	14.3		7.6	8.8	35
1	370.3	370.3	14.6		5.9	7.8	39
1	373.9	373.9	14.7		3.6	6.1	50
1	376.9	376.9	14.8		3.0	5.6	54
1	381.0	381.0	15.0		4.1	6.5	47
1	382.5	382.5	15.1		1.5	4.0	75
1	383.5	383.5	15.1		1.0	3.3	91
1	385.3	385.3	15.2		1.8	4.4	69
1	388.1	388.1	15.3		2.8	5.5	56
1	391.1	391.1	15.4		3.0	5.6	54
1	392.8	392.8	15.5		1.7	4.3	71
1	395.7	395.7	15.6		2.9	5.5	55
1	398.0	398.0	15.7		2.3	5.0	61
1	400.9	400.9	15.8		2.9	5.5	55
1	404.1	404.1	15.9		3.1	5.8	53
1	407.2	407.2	16.0		3.1	5.8	53

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-11.02
Date Completed:	1/25/2019			
Logged By:	K.G.	Probing Equipment:	DCP H-4219	
Total Depth:	3.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	410.6	410.6	16.2		3.4	6.0	51
1	415.9	415.9	16.4		5.3	7.4	41
1	420.4	420.4	16.6		4.5	6.8	45
1	424.4	424.4	16.7		4.0	6.5	47
1	428.4	428.4	16.9		4.0	6.5	47
1	433.6	433.6	17.1		5.2	7.3	42
1	440.0	440.0	17.3		6.4	8.1	38
1	453.2	453.2	17.8		13.2	11.4	27
1	457.5	457.5	18.0		4.3	6.7	46
1	461.7	461.7	18.2		4.3	6.7	46
1	463.2	463.2	18.2		1.5	4.0	75
1	464.7	464.7	18.3		1.5	4.0	75
1	468.1	468.1	18.4		3.4	6.0	51
1	471.2	471.2	18.6		3.1	5.7	53
1	473.9	473.9	18.7		2.7	5.4	57
1	477.0	477.0	18.8		3.1	5.7	53
1	480.0	480.0	18.9		3.0	5.6	54
1	486.7	486.7	19.2		6.7	8.3	37
1	494.4	494.4	19.5		7.7	8.8	35
1	502.3	502.3	19.8		7.9	8.9	34
1	509.3	509.3	20.1		7.0	8.4	36
1	518.6	518.6	20.4		9.3	9.7	32
1	526.8	526.8	20.7		8.2	9.1	34
1	534.5	534.5	21.0		7.7	8.8	35
1	541.1	541.1	21.3		6.6	8.2	37
1	549.0	549.0	21.6		7.9	8.9	34
1	559.2	559.2	22.0		10.2	10.1	30
1	571.3	571.3	22.5		12.1	11.0	28
1	583.6	583.6	23.0		12.3	11.0	28
1	594.9	594.9	23.4		11.3	10.6	29
1	607.2	607.2	23.9		12.3	11.0	28
1	616.1	616.1	24.3		8.9	9.5	32
1	626.6	626.6	24.7		10.5	10.2	30
1	640.3	640.3	25.2		13.7	11.6	26
1	656.7	656.7	25.9		16.4	12.7	24
1	672.6	672.6	26.5		15.9	12.5	24

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-11.03
Date Completed:	1/25/2019			
Logged By:	K.G.	Probing Equipment:	DCP H-4219	
Total Depth:	3.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 111
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	688.1	688.1	27.1		15.5	12.3	25
1	700.0	700.0	27.6		11.9	10.9	28
1	713.9	713.9	28.1		13.9	11.7	26
1	724.1	724.1	28.5		10.2	10.1	30
1	733.5	733.5	28.9		9.4	9.7	31
1	742.8	742.8	29.2		9.3	9.7	32
1	751.2	751.2	29.6		8.4	9.2	33
1	756.9	756.9	29.8		5.7	7.6	40
1	766.4	766.4	30.2		9.5	9.8	31
1	775.3	775.3	30.5		8.9	9.5	32
1	782.3	782.3	30.8		7.0	8.4	36
1	788.0	788.0	31.0		5.7	7.6	40
1	792.5	792.5	31.2		4.5	6.8	45
1	800.0	800.0	31.5		7.5	8.7	35
1	805.6	805.6	31.7		5.6	7.6	40
1	812.9	812.9	32.0		7.3	8.6	35
1	819.1	819.1	32.2		6.2	8.0	38
1	825.7	825.7	32.5		6.6	8.2	37
1	830.6	830.6	32.7		4.9	7.1	43
1	835.1	835.1	32.9		4.5	6.8	45
1	839.9	839.9	33.1		4.8	7.0	43
1	845.3	845.3	33.3		5.4	7.5	41
1	851.5	851.5	33.5		6.2	8.0	38
1	858.3	858.3	33.8		6.8	8.3	37
1	864.9	864.9	34.1		6.6	8.2	37
1	870.4	870.4	34.3		5.5	7.5	41
1	878.0	878.0	34.6		7.6	8.8	35
1	886.7	886.7	34.9		8.7	9.4	33
1	897.1	897.1	35.3		10.4	10.2	30
1	906.6	906.6	35.7		9.5	9.8	31
1	916.4	916.4	36.1		9.8	9.9	31
1	925.5	925.5	36.4		9.1	9.6	32
1	936.0	936.0	36.9		10.5	10.2	30
1	946.9	946.9	37.3		10.9	10.4	29
1	958.3	958.3	37.7		11.4	10.6	29
1	969.1	969.1	38.2		10.8	10.4	29
Date Started:		1/25/2019	Water Level:		Not Encountered		Plate B-11.04
Date Completed:		1/25/2019					
Logged By:		K.G.	Probing Equipment:		DCP H-4219		
Total Depth:		3.9'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-11.05
Date Completed:	1/25/2019			
Logged By:	K.G.	Probing Equipment:	DCP H-4219	
Total Depth:	3.9'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	3.1	3.1	0.1		3.1	5.7	53
1	3.6	3.6	0.1		0.5	2.4	127
1	5.5	5.5	0.2		1.9	4.5	67
1	7.6	7.6	0.3		2.1	4.8	64
1	9.7	9.7	0.4		2.1	4.8	64
1	10.4	10.4	0.4		0.7	2.8	108
1	12.5	12.5	0.5		2.1	4.8	64
1	14.7	14.7	0.6		2.2	4.9	63
1	15.6	15.6	0.6		0.9	3.2	96
1	17.1	17.1	0.7		1.5	4.0	75
1	18.3	18.3	0.7		1.2	3.6	84
1	19.9	19.9	0.8		1.6	4.2	73
1	20.7	20.7	0.8		0.8	3.0	102
1	21.0	21.0	0.8		0.3	1.9	162
1	22.7	22.7	0.9		1.7	4.3	71
1	23.9	23.9	0.9		1.2	3.6	84
1	25.3	25.3	1.0		1.4	3.9	78
1	26.5	26.5	1.0		1.2	3.6	84
1	27.2	27.2	1.1		0.7	2.8	108
1	28.6	28.6	1.1		1.4	3.9	78
1	29.4	29.4	1.2		0.8	3.0	102
1	30.2	30.2	1.2		0.8	3.0	102
1	31.5	31.5	1.2		1.3	3.8	81
1	33.4	33.4	1.3		1.9	4.5	67
1	34.8	34.8	1.4		1.4	3.9	78
1	36.1	36.1	1.4		1.3	3.8	81
1	36.7	36.7	1.4		0.6	2.6	117
1	37.8	37.8	1.5		1.1	3.5	87
1	39.8	39.8	1.6		2.0	4.6	66
1	41.0	41.0	1.6		1.2	3.6	84
1	41.5	41.5	1.6		0.5	2.4	127
1	43.4	43.4	1.7		1.9	4.5	67
1	43.6	43.6	1.7		0.2	1.5	197
1	43.8	43.8	1.7		0.2	1.5	197
1	45.2	45.2	1.8		1.4	3.9	78
1	46.5	46.5	1.8		1.3	3.8	81

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.00
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	49.2	49.2	1.9		2.7	5.4	57
1	50.6	50.6	2.0		1.4	3.9	78
1	51.2	51.2	2.0		0.6	2.6	117
1	53.0	53.0	2.1		1.8	4.4	69
1	54.6	54.6	2.1		1.6	4.2	73
1	55.9	55.9	2.2		1.3	3.8	81
1	57.3	57.3	2.3		1.4	3.9	78
1	59.1	59.1	2.3		1.8	4.4	69
1	59.9	59.9	2.4		0.8	2.9	105
1	60.6	60.6	2.4		0.8	2.9	105
1	63.4	63.4	2.5		2.8	5.5	56
1	64.6	64.6	2.5		1.2	3.6	84
1	66.7	66.7	2.6		2.1	4.8	64
1	68.9	68.9	2.7		2.2	4.9	63
1	71.3	71.3	2.8		2.4	5.1	60
1	74.1	74.1	2.9		2.8	5.5	56
1	77.6	77.6	3.1		3.5	6.1	50
1	80.8	80.8	3.2		3.2	5.8	52
1	83.8	83.8	3.3		3.0	5.6	54
1	86.2	86.2	3.4		2.4	5.1	60
1	88.0	88.0	3.5		1.8	4.4	69
1	90.8	90.8	3.6		2.8	5.5	56
1	93.9	93.9	3.7		3.1	5.7	53
1	96.3	96.3	3.8		2.4	5.1	60
1	97.0	97.0	3.8		0.7	2.8	108
1	99.4	99.4	3.9		2.4	5.1	60
1	101.3	101.3	4.0		1.9	4.5	67
1	103.4	103.4	4.1		2.1	4.8	64
1	106.5	106.5	4.2		3.1	5.7	53
1	108.6	108.6	4.3		2.1	4.8	64
1	110.6	110.6	4.4		2.0	4.6	66
1	112.6	112.6	4.4		2.0	4.6	66
1	113.9	113.9	4.5		1.3	3.8	81
1	115.1	115.1	4.5		1.2	3.6	84
1	117.3	117.3	4.6		2.2	4.9	63
1	118.3	118.3	4.7		1.0	3.3	91

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.01
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**112**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	121.1	121.1	4.8		2.8	5.5	56
1	122.1	122.1	4.8		1.0	3.3	91
1	122.5	122.5	4.8		0.4	2.2	141
1	122.8	122.8	4.8		0.3	1.9	162
1	123.9	123.9	4.9		1.1	3.5	87
1	125.1	125.1	4.9		1.2	3.6	84
1	125.4	125.4	4.9		0.3	1.9	162
1	125.7	125.7	4.9		0.3	1.9	162
1	126.7	126.7	5.0		1.0	3.3	91
1	127.3	127.3	5.0		0.6	2.6	117
1	128.1	128.1	5.0		0.8	3.0	102
1	128.4	128.4	5.1		0.3	1.9	162
1	128.6	128.6	5.1		0.2	1.5	197
1	128.8	128.8	5.1		0.2	1.5	197
1	128.9	128.9	5.1		0.1	1.1	274
1	129.5	129.5	5.1		0.5	2.5	121
1	130.0	130.0	5.1		0.6	2.5	121
1	131.5	131.5	5.2		1.4	4.0	77
1	132.9	132.9	5.2		1.5	4.0	77
1	134.1	134.1	5.3		1.2	3.6	84
1	134.5	134.5	5.3		0.4	2.2	141
1	135.3	135.3	5.3		0.8	3.0	102
1	137.5	137.5	5.4		2.2	4.9	63
1	138.8	138.8	5.5		1.3	3.8	81
1	140.5	140.5	5.5		1.7	4.3	71
1	141.3	141.3	5.6		0.8	3.0	102
1	143.0	143.0	5.6		1.7	4.3	71
1	144.1	144.1	5.7		1.1	3.5	87
1	145.4	145.4	5.7		1.3	3.8	81
1	147.0	147.0	5.8		1.6	4.2	73
1	148.8	148.8	5.9		1.8	4.4	69
1	150.6	150.6	5.9		1.8	4.4	69
1	153.3	153.3	6.0		2.7	5.4	57
1	155.9	155.9	6.1		2.6	5.3	58
1	158.2	158.2	6.2		2.3	5.0	61
1	159.6	159.6	6.3		1.4	3.9	78

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.02
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 112	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	161.7	161.7	6.4		2.1	4.8	64	
1	164.0	164.0	6.5		2.3	5.0	61	
1	165.0	165.0	6.5		1.0	3.3	91	
1	165.9	165.9	6.5		0.9	3.2	96	
1	167.8	167.8	6.6		1.9	4.5	67	
1	169.5	169.5	6.7		1.7	4.3	71	
1	171.0	171.0	6.7		1.5	4.0	75	
1	171.4	171.4	6.7		0.4	2.2	141	
1	173.3	173.3	6.8		1.9	4.5	67	
1	174.7	174.7	6.9		1.4	3.9	78	
1	176.3	176.3	6.9		1.6	4.2	73	
1	176.4	176.4	6.9		0.1	1.1	274	
1	178.1	178.1	7.0		1.7	4.3	71	
1	180.1	180.1	7.1		2.0	4.6	66	
1	182.3	182.3	7.2		2.2	4.9	63	
1	183.3	183.3	7.2		1.0	3.3	91	
1	185.1	185.1	7.3		1.8	4.4	69	
1	188.2	188.2	7.4		3.1	5.7	53	
1	189.8	189.8	7.5		1.6	4.2	73	
1	191.6	191.6	7.5		1.8	4.4	69	
1	193.7	193.7	7.6		2.1	4.8	64	
1	195.5	195.5	7.7		1.8	4.4	69	
1	197.5	197.5	7.8		2.0	4.6	66	
1	198.5	198.5	7.8		1.0	3.3	91	
1	199.4	199.4	7.8		0.8	3.1	99	
1	200.2	200.2	7.9		0.8	3.1	99	
1	203.1	203.1	8.0		2.9	5.5	55	
1	204.1	204.1	8.0		1.0	3.3	91	
1	205.7	205.7	8.1		1.6	4.2	73	
1	207.5	207.5	8.2		1.8	4.4	69	
1	209.1	209.1	8.2		1.6	4.2	73	
1	209.7	209.7	8.3		0.6	2.6	117	
1	212.1	212.1	8.4		2.4	5.1	60	
1	213.1	213.1	8.4		1.0	3.3	91	
1	214.1	214.1	8.4		1.0	3.3	91	
1	216.4	216.4	8.5		2.3	5.0	61	
Date Started:		1/25/2019	Water Level:		Not Encountered			Plate B-12.03
Date Completed:		1/25/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 112
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	218.9	218.9	8.6		2.5	5.2	59
1	221.5	221.5	8.7		2.6	5.3	58
1	223.8	223.8	8.8		2.3	5.0	61
1	225.8	225.8	8.9		2.0	4.6	66
1	229.1	229.1	9.0		3.3	5.9	52
1	230.7	230.7	9.1		1.6	4.2	73
1	233.4	233.4	9.2		2.7	5.4	57
1	235.6	235.6	9.3		2.2	4.9	63
1	236.6	236.6	9.3		1.0	3.3	91
1	239.1	239.1	9.4		2.5	5.2	59
1	241.0	241.0	9.5		1.9	4.5	67
1	242.9	242.9	9.6		1.9	4.5	67
1	244.6	244.6	9.6		1.7	4.3	71
1	246.2	246.2	9.7		1.6	4.2	73
1	248.8	248.8	9.8		2.6	5.3	58
1	250.5	250.5	9.9		1.7	4.3	71
1	252.6	252.6	9.9		2.1	4.8	64
1	253.6	253.6	10.0		1.0	3.3	91
1	255.0	255.0	10.0		1.4	3.9	78
1	256.4	256.4	10.1		1.4	3.9	78
1	258.4	258.4	10.2		2.0	4.6	66
1	259.0	259.0	10.2		0.6	2.6	117
1	260.5	260.5	10.3		1.5	4.0	75
1	262.4	262.4	10.3		1.9	4.5	67
1	263.5	263.5	10.4		1.1	3.5	87
1	264.3	264.3	10.4		0.8	3.0	102
1	266.0	266.0	10.5		1.7	4.3	71
1	266.2	266.2	10.5		0.2	1.5	197
1	267.1	267.1	10.5		0.9	3.2	96
1	268.9	268.9	10.6		1.8	4.4	69
1	270.4	270.4	10.6		1.5	4.0	75
1	271.4	271.4	10.7		1.0	3.3	91
1	273.3	273.3	10.8		1.9	4.5	67
1	275.1	275.1	10.8		1.8	4.4	69
1	276.0	276.0	10.9		0.9	3.2	96
1	277.5	277.5	10.9		1.5	4.0	75
Date Started:		1/25/2019	Water Level:		Not Encountered		Plate B-12.04
Date Completed:		1/25/2019					
Logged By:		B.A.	Probing Equipment:		DCP H-4219		
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone		
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop		

	GEOLABS, INC. Geotechnical Engineering	PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII					Log of DCP 112	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	279.1	279.1	11.0		1.6	4.2	73	
1	280.6	280.6	11.0		1.5	4.0	75	
1	281.2	281.2	11.1		0.6	2.6	117	
1	282.5	282.5	11.1		1.3	3.8	81	
1	283.3	283.3	11.2		0.8	3.0	102	
1	285.4	285.4	11.2		2.1	4.8	64	
1	286.1	286.1	11.3		0.7	2.8	108	
1	287.2	287.2	11.3		1.1	3.5	87	
1	288.2	288.2	11.3		1.0	3.3	91	
1	289.6	289.6	11.4		1.4	3.9	78	
1	291.1	291.1	11.5		1.5	4.0	75	
1	292.7	292.7	11.5		1.6	4.2	73	
1	294.1	294.1	11.6		1.4	3.9	78	
1	296.3	296.3	11.7		2.2	4.9	63	
1	298.6	298.6	11.8		2.3	5.0	61	
1	298.7	298.7	11.8		0.1	1.1	274	
1	301.1	301.1	11.9		2.4	5.1	60	
1	302.8	302.8	11.9		1.7	4.3	71	
1	303.3	303.3	11.9		0.5	2.4	127	
1	305.5	305.5	12.0		2.2	4.9	63	
1	306.2	306.2	12.1		0.7	2.8	108	
1	308.8	308.8	12.2		2.6	5.3	58	
1	310.6	310.6	12.2		1.8	4.4	69	
1	312.1	312.1	12.3		1.5	4.0	75	
1	314.4	314.4	12.4		2.3	5.0	61	
1	316.6	316.6	12.5		2.2	4.9	63	
1	318.5	318.5	12.5		1.9	4.5	67	
1	320.1	320.1	12.6		1.6	4.2	73	
1	321.4	321.4	12.7		1.3	3.8	81	
1	323.8	323.8	12.7		2.4	5.1	60	
1	325.4	325.4	12.8		1.6	4.2	73	
1	326.7	326.7	12.9		1.3	3.8	81	
1	328.0	328.0	12.9		1.3	3.8	81	
1	329.2	329.2	13.0		1.2	3.6	84	
1	332.0	332.0	13.1		2.8	5.5	56	
1	334.0	334.0	13.1		2.0	4.6	66	
Date Started:		1/25/2019	Water Level:		Not Encountered			Plate B-12.05
Date Completed:		1/25/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

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Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	336.1	336.1	13.2		2.1	4.8	64
1	336.9	336.9	13.3		0.8	3.0	102
1	339.0	339.0	13.3		2.1	4.8	64
1	339.6	339.6	13.4		0.6	2.6	117
1	340.3	340.3	13.4		0.7	2.8	108
1	342.8	342.8	13.5		2.5	5.2	59
1	344.2	344.2	13.6		1.4	3.9	78
1	346.2	346.2	13.6		2.0	4.6	66
1	347.3	347.3	13.7		1.1	3.4	89
1	348.3	348.3	13.7		1.1	3.4	89
1	350.2	350.2	13.8		1.9	4.5	67
1	352.7	352.7	13.9		2.5	5.2	59
1	355.6	355.6	14.0		2.9	5.5	55
1	357.8	357.8	14.1		2.2	4.9	63
1	360.0	360.0	14.2		2.2	4.9	63
1	361.8	361.8	14.2		1.8	4.4	69
1	364.8	364.8	14.4		3.0	5.6	54
1	371.8	371.8	14.6		7.0	8.4	36
1	376.4	376.4	14.8		4.6	6.9	44
1	380.4	380.4	15.0		4.0	6.5	47
1	385.7	385.7	15.2		5.3	7.4	41
1	391.0	391.0	15.4		5.3	7.4	41
1	396.7	396.7	15.6		5.7	7.6	40
1	402.4	402.4	15.8		5.7	7.6	40
1	408.5	408.5	16.1		6.1	7.9	39
1	414.5	414.5	16.3		6.0	7.8	39
1	421.6	421.6	16.6		7.1	8.5	36
1	428.2	428.2	16.9		6.6	8.2	37
1	434.8	434.8	17.1		6.6	8.2	37
1	441.5	441.5	17.4		6.7	8.3	37
1	447.8	447.8	17.6		6.3	8.0	38
1	455.1	455.1	17.9		7.3	8.6	35
1	462.5	462.5	18.2		7.4	8.7	35
1	469.4	469.4	18.5		6.9	8.4	36
1	476.6	476.6	18.8		7.2	8.6	36
1	485.1	485.1	19.1		8.5	9.3	33

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.06
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

		GEOLABS, INC. Geotechnical Engineering		PALI HIGHWAY RESURFACING VINEYARD BOULEVARD TO WAOKANAKA STREET HONOLULU, OAHU, HAWAII			Log of DCP 112	
No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)	
1	492.9	492.9	19.4		7.8	8.9	34	
1	501.2	501.2	19.7		8.3	9.2	33	
1	509.9	509.9	20.1		8.7	9.4	33	
1	519.2	519.2	20.4		9.3	9.7	32	
1	528.6	528.6	20.8		9.4	9.7	31	
1	539.2	539.2	21.2		10.6	10.3	30	
1	550.8	550.8	21.7		11.6	10.7	28	
1	562.6	562.6	22.1		11.8	10.8	28	
1	574.8	574.8	22.6		12.2	11.0	28	
1	587.1	587.1	23.1		12.3	11.0	28	
1	600.1	600.1	23.6		13.0	11.3	27	
1	611.3	611.3	24.1		11.2	10.6	29	
1	620.7	620.7	24.4		9.4	9.7	31	
1	629.2	629.2	24.8		8.5	9.3	33	
1	636.1	636.1	25.0		6.9	8.4	36	
1	642.5	642.5	25.3		6.4	8.1	38	
1	649.0	649.0	25.6		6.5	8.1	37	
1	654.6	654.6	25.8		5.6	7.6	40	
1	660.2	660.2	26.0		5.6	7.6	40	
1	665.4	665.4	26.2		5.2	7.3	42	
1	670.7	670.7	26.4		5.3	7.4	41	
1	675.0	675.0	26.6		4.3	6.7	46	
1	681.4	681.4	26.8		6.4	8.1	38	
1	687.3	687.3	27.1		5.9	7.8	39	
1	692.1	692.1	27.2		4.8	7.0	43	
1	697.2	697.2	27.4		5.1	7.3	42	
1	702.5	702.5	27.7		5.3	7.4	41	
1	707.9	707.9	27.9		5.4	7.5	41	
1	712.9	712.9	28.1		5.0	7.2	42	
1	713.1	713.1	28.1		0.2	1.5	197	
1	718.1	718.1	28.3		5.0	7.2	42	
1	724.0	724.0	28.5		5.9	7.8	39	
1	728.8	728.8	28.7		4.8	7.0	43	
1	735.2	735.2	28.9		6.4	8.1	38	
1	741.6	741.6	29.2		6.4	8.1	38	
1	747.9	747.9	29.4		6.3	8.0	38	
Date Started:		1/25/2019	Water Level:		Not Encountered			Plate B-12.07
Date Completed:		1/25/2019						
Logged By:		B.A.	Probing Equipment:		DCP H-4219			
Total Depth:		4.6'	Size of Cone Tip:		8 mm dia. with 60° cone			
Work Order:		6782-00(B)	Driving Energy:		8 kg weight 575 mm drop			

**GEOLABS, INC.**

Geotechnical Engineering

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No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	753.9	753.9	29.7		6.0	7.8	39
1	760.1	760.1	29.9		6.2	8.0	38
1	766.2	766.2	30.2		6.1	7.9	39
1	773.2	773.2	30.4		7.0	8.4	36
1	779.6	779.6	30.7		6.4	8.1	38
1	785.8	785.8	30.9		6.2	8.0	38
1	792.7	792.7	31.2		6.9	8.4	36
1	799.6	799.6	31.5		6.9	8.4	36
1	805.6	805.6	31.7		6.0	7.8	39
1	810.9	810.9	31.9		5.3	7.4	41
1	818.0	818.0	32.2		7.1	8.5	36
1	823.3	823.3	32.4		5.3	7.4	41
1	827.8	827.8	32.6		4.5	6.8	45
1	833.8	833.8	32.8		6.0	7.8	39
1	839.1	839.1	33.0		5.3	7.4	41
1	844.8	844.8	33.3		5.7	7.6	40
1	849.5	849.5	33.4		4.7	7.0	44
1	854.7	854.7	33.6		5.2	7.3	42
1	859.8	859.8	33.9		5.1	7.3	42
1	865.1	865.1	34.1		5.3	7.4	41
1	869.4	869.4	34.2		4.3	6.7	46
1	875.4	875.4	34.5		6.0	7.8	39
1	880.5	880.5	34.7		5.1	7.3	42
1	886.7	886.7	34.9		6.2	8.0	38
1	891.7	891.7	35.1		5.0	7.2	42
1	896.9	896.9	35.3		5.2	7.3	42
1	901.8	901.8	35.5		4.9	7.1	43
1	907.4	907.4	35.7		5.6	7.6	40
1	912.0	912.0	35.9		4.6	6.9	44
1	916.4	916.4	36.1		4.4	6.8	45
1	921.5	921.5	36.3		5.1	7.3	42
1	926.2	926.2	36.5		4.7	7.0	44
1	931.1	931.1	36.7		4.9	7.1	43
1	936.2	936.2	36.9		5.1	7.3	42
1	941.8	941.8	37.1		5.6	7.6	40
1	947.1	947.1	37.3		5.3	7.4	41

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.08
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

**GEOLABS, INC.**

Geotechnical Engineering

PALI HIGHWAY RESURFACING
VINEYARD BOULEVARD TO WAOKANAKA STREET
HONOLULU, OAHU, HAWAIILog of
DCP**112**

No. of Blows	Penetration Reading	Depth of Penetration (mm)	Depth of Penetration (inches)	Elevation of Penetration (feet MSL)	Penetration Index (mm/blow)	Correlated SPT Index (mm/blow)	SPT Blow Count (blow/foot)
1	952.2	952.2	37.5		5.1	7.3	42
1	957.2	957.2	37.7		5.0	7.2	42
1	963.1	963.1	37.9		5.9	7.8	39
1	968.9	968.9	38.1		5.8	7.7	40
1	974.1	974.1	38.4		5.2	7.3	42
1	981.2	981.2	38.6		7.1	8.5	36
1	988.2	988.2	38.9		7.0	8.4	36
1	994.3	994.3	39.1		6.1	7.9	39
1	1002.6	1002.6	39.5		8.3	9.2	33
1	1010.6	1010.6	39.8		8.0	9.0	34
1	1020.6	1020.6	40.2		10.0	10.0	30
1	1030.3	1030.3	40.6		9.7	9.9	31
1	1040.4	1040.4	41.0		10.1	10.0	30
1	1051.2	1051.2	41.4		10.8	10.4	29
1	1060.9	1060.9	41.8		9.7	9.9	31
1	1071.2	1071.2	42.2		10.3	10.1	30
1	1081.4	1081.4	42.6		10.2	10.1	30
1	1091.4	1091.4	43.0		10.0	10.0	30
1	1101.3	1101.3	43.4		9.9	10.0	31
1	1110.3	1110.3	43.7		9.0	9.5	32
1	1119.8	1119.8	44.1		9.5	9.8	31
1	1129.8	1129.8	44.5		10.0	10.0	30
1	1139.7	1139.7	44.9		9.9	10.0	31
1	1149.3	1149.3	45.2		9.6	9.8	31
1	1159.9	1159.9	45.7		10.6	10.3	30
1	1169.4	1169.4	46.0		9.5	9.8	31
1	1179.1	1179.1	46.4		9.7	9.9	31
1	1188.7	1188.7	46.8		9.6	9.8	31
1	1198.0	1198.0	47.2		9.3	9.7	32
1	1206.6	1206.6	47.5		8.6	9.3	33
1	1215.5	1215.5	47.9		8.9	9.5	32
1	1224.7	1224.7	48.2		9.2	9.6	32
1	1233.9	1233.9	48.6		9.2	9.6	32
1	1244.8	1244.8	49.0		10.9	10.4	29
1	1256.6	1256.6	49.5		11.8	10.8	28
1	1268.4	1268.4	49.9		11.8	10.8	28

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.09
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	

Date Started:	1/25/2019	Water Level:	Not Encountered	Plate B-12.10
Date Completed:	1/25/2019			
Logged By:	B.A.	Probing Equipment:	DCP H-4219	
Total Depth:	4.6'	Size of Cone Tip:	8 mm dia. with 60° cone	
Work Order:	6782-00(B)	Driving Energy:	8 kg weight 575 mm drop	