

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
GEOTECHNICAL SECTION
LINE SAMPLING DATA

US95A, Lyon County, from Junction with US 50 in Silver Springs to 0.015
Miles South of Royal Oaks Dr.

Cum. Mile LY 44.254 to LY 55.438

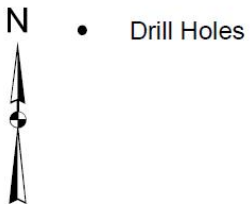
LYON COUNTY, NEVADA

EA 73639

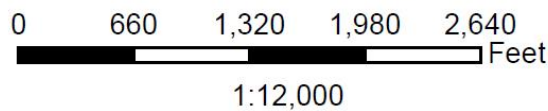
August 2016

This report presents laboratory test results consisting of gradation, liquid limit, plasticity index, and R-value data only. No interpretations of the data are presented. The tests were performed on samples collected at the locations and depths indicated on the individual data sheets. Each boring was advanced with a 6-inch solid-stem auger. Samples were collected from cuttings brought to the surface on auger flights while advancing borings the corresponding depth intervals. Tests were performed in accordance with Nevada standard test procedures. Individual samples might not be representative of the depth intervals indicated:

- Each sample is a mixture of strata encountered within the depth penetrated and is not necessarily representative of an individual stratum.
- Oversized material might not be brought to the surface and included in the sample.
- Deeper samples inevitably contain some material from the sides of the borehole above the sample interval.
- Drilling action might break individual particles into smaller pieces.



**US-95A, Lyon County 0.00 to 1.00
EA 73639
Geotechnical Investigation**



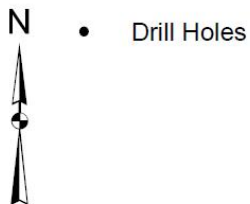
Brian Sandoval
Governor



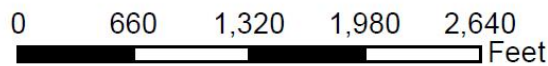
Rudy Malfabon, P.E.
Director

Nevada Department of Transportation
1263 South Stewart Street
Carson City, Nevada 89712
(775) 888-7000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.
MAP COMPILED FROM BEST AVAILABLE DATA SOURCES. DATA PROVIDED BY "GEOTECHNICAL SECTION(028)"
NOT ALL FEATURES PORTRAYED DUE TO SCALE.



**US-95A, Lyon County 5.00 to 6.00
EA 73639
Geotechnical Investigation**



1:12,000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.
MAP COMPILED FROM BEST AVAILABLE DATA SOURCES. DATA PROVIDED BY "GEOTECHNICAL SECTION(028)"
NOT ALL FEATURES PORTRAYED DUE TO SCALE.



Brian Sandoval
Governor



Rudy Malfabon, P.E.
Director

Nevada Department of Transportation
1263 South Stewart Street
Carson City, Nevada 89712
(775) 888-7000

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-408-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 403+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 18'
 Sample No.: 1 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	0-- Silt, Sand, Gravel 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	100

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	97
1/2"	88
3/8"	82
No. 4	71
No. 10	58
No. 16	51
No. 40	41
No. 50	37
No. 100	29
No. 200	21

Liquid Limit	<u>23</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>58</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>11.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-409-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 403+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 18'
 Sample No.: 1A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	_____ _____ Silt, Sand, Gravel _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ 100 _____ _____ _____ _____ _____ _____ _____ _____ _____

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	98
3/8"	91
No. 4	82
No. 10	72
No. 16	67
No. 40	57
No. 50	52
No. 100	43
No. 200	30

Liquid Limit	<u>22</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>47</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>14.8</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-410-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 408+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 21'
 Sample No.: 2 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	0-- Silt, Sand, Gravel 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	100

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	98
3/4"	93
1/2"	74
3/8"	62
No. 4	44
No. 10	32
No. 16	27
No. 40	19
No. 50	16
No. 100	12
No. 200	8

Liquid Limit	<u>25</u>	
Plastic Index	<u>3</u>	
Specific Gravity	_____	
Resistance Value	<u>80</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>3.4</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-411-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 408+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 21'
 Sample No.: 2A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--		
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Silt, Sand, Gravel	100
Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) _____	8--		
Remarks: <u>Drill hole kept caving in therefor 3 holes had to</u> <u>be drilled in order to obtain an adequate amount of soil.</u>	10--		
	12--		
	14--		
	16--		
Submitted By: <u>O. ALTAMIRANO</u>	18--		
Title: <u>Engineering Technician III</u>	20--		

Sieve Size	% Passing
3"	100
2"	96
1.5"	91
1"	91
3/4"	79
1/2"	65
3/8"	55
No. 4	39
No. 10	27
No. 16	23
No. 40	15
No. 50	13
No. 100	10
No. 200	7

Liquid Limit	<u>27</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>81</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>3.1</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-412-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 413+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 19'
 Sample No.: 3 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Gravel	0-- 100 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	
2"	100
1.5"	96
1"	95
3/4"	84
1/2"	71
3/8"	65
No. 4	51
No. 10	39
No. 16	34
No. 40	26
No. 50	22
No. 100	16
No. 200	12

Liquid Limit 23
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 76
 Cover Stabilometer _____
 Thickness 4.8 Expansion Pressure _____
 Sand Equivalentt _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-a

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-413-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 413+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 3A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Drill hole kept caving in therefor 2 holes had to be drilled in order to get an adequate amount of sample, cobbles or boulders from 3½'-4½'.</u> Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Gravel, Cobbles	0-- 2-- 4-- 100 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	100
2"	92
1.5"	88
1"	76
3/4"	61
1/2"	43
3/8"	32
No. 4	20
No. 10	15
No. 16	13
No. 40	10
No. 50	9
No. 100	7
No. 200	5

Liquid Limit	<u>25</u>	
Plastic Index	<u>4</u>	
Specific Gravity	_____	
Resistance Value	<u>79</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>3.8</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-414-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 418+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 4 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____	0--		
	2--	Silt, Sand, Gravel	100
	4--		
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
	20--		

Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	97
1/2"	82
3/8"	72
No. 4	58
No. 10	45
No. 16	39
No. 40	30
No. 50	27
No. 100	21
No. 200	16

Liquid Limit	<u>25</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>68</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>7.6</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-415-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 418+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 19'
 Sample No.: 4A County: LYON

Sample Type: RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: Drill hole kept caving in therefor 2 holes had to be
drilled in order to obtain an adequate amount of soil.
 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--		
4--	Silt, Sand, Gravel	100
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	98
3/4"	94
1/2"	83
3/8"	74
No. 4	54
No. 10	42
No. 16	37
No. 40	28
No. 50	25
No. 100	20
No. 200	15

Liquid Limit 24
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 76
 Cover Stabilometer _____
 Thickness 4.8 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-a

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-416-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 423+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 19'
 Sample No.: 5 County: LYON

Sample Type: RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: Drill hole kept caving in therefor 2 holes had to
be drilled in order to get an adequate amount of soil.
 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--	Silt, Sand, Gravel	100
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	100
1.5"	98
1"	98
3/4"	94
1/2"	85
3/8"	80
No. 4	63
No. 10	49
No. 16	42
No. 40	32
No. 50	29
No. 100	23
No. 200	18

Liquid Limit 24
 Plastic Index 6
 Specific Gravity _____
 Resistance Value 69
 Cover Stabilometer _____
 Thickness 7.2 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-417-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 423+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 5A County: LYON

Sample Type: _____
 RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: _____
 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--		
4--	Silt, Sand, Lt Gravel	100
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	97
3/4"	96
1/2"	94
3/8"	90
No. 4	78
No. 10	61
No. 16	54
No. 40	41
No. 50	36
No. 100	27
No. 200	20

Liquid Limit 22
 Plastic Index 2
 Specific Gravity _____
 Resistance Value 78
 Cover Stabilometer
 Thickness 4.1 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-418-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 428+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 20'
 Sample No.: 6 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Silt, Sand, Gravel	100
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--		
Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) _____	8--		
Remarks: _____	10--		
	12--		
	14--		
	16--		
Submitted By: <u>O. ALTAMIRANO</u>	18--		
Title: <u>Engineering Technician III</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	98
3/4"	88
1/2"	78
3/8"	71
No. 4	56
No. 10	44
No. 16	39
No. 40	29
No. 50	26
No. 100	20
No. 200	15

Liquid Limit	<u>26</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>74</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>5.5</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-419-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 428+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 20'
 Sample No.: 6A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--		
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Silt, Sand, Gravel	100
Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) _____	8--		
Remarks: _____	10--		
	12--		
	14--		
	16--		
Submitted By: <u>O. ALTAMIRANO</u>	18--		
Title: <u>Engineering Technician III</u>	20--		

Sieve Size	% Passing
3"	
2"	100
1.5"	97
1"	97
3/4"	97
1/2"	80
3/8"	71
No. 4	51
No. 10	37
No. 16	32
No. 40	25
No. 50	22
No. 100	17
No. 200	13

Liquid Limit	<u>23</u>	
Plastic Index	<u>2</u>	
Specific Gravity		
Resistance Value	<u>74</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>5.5</u>	
Sand Equivalent		
Natural Moisture, %		
Resistivity		
pH Factor		
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-420-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 433+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 7 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	_____ Silt, Sand, Gravel _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ 100 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	97
1/2"	86
3/8"	79
No. 4	62
No. 10	47
No. 16	40
No. 40	28
No. 50	25
No. 100	19
No. 200	15

Liquid Limit	<u>26</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>70</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>6.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-421-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 433+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 7A County: LYON

Sample Type: RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: _____

 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--		
4--	Silt, Sand, Gravel	100
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	97
3/4"	97
1/2"	93
3/8"	83
No. 4	67
No. 10	50
No. 16	44
No. 40	34
No. 50	30
No. 100	24
No. 200	19

Liquid Limit 23
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 78
 Cover Stabilometer Expansion Pressure _____
 Thickness 4.1
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-422-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 438+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 19'
 Sample No.: 8 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	0-- Silt, Sand, Gravel 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	100

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	89
3/8"	83
No. 4	67
No. 10	52
No. 16	46
No. 40	35
No. 50	32
No. 100	25
No. 200	20

Liquid Limit	<u>20</u>	
Plastic Index	<u>2</u>	
Specific Gravity	_____	
Resistance Value	<u>75</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>5.2</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-423-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 438+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 19'
 Sample No.: 8A County: LYON

Sample Type: _____
 RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: _____
 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--		
4--	Silt, Sand, Gravel	100
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	90
3/4"	80
1/2"	62
3/8"	54
No. 4	40
No. 10	29
No. 16	25
No. 40	20
No. 50	18
No. 100	15
No. 200	12

Liquid Limit 21
 Plastic Index 4
 Specific Gravity _____
 Resistance Value 73
 Cover Stabilometer _____
 Thickness 5.9 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-a

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-424-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 443+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 18'
 Sample No.: 9 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	_____ Silt, Sand, Gravel _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ 100 _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	99
3/4"	97
1/2"	97
3/8"	84
No. 4	65
No. 10	50
No. 16	43
No. 40	33
No. 50	29
No. 100	23
No. 200	18

Liquid Limit	<u>25</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>60</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>10.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-425-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 443+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 18'
 Sample No.: 9A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	_____ _____ Silt, Sand, Gravel _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ 100 _____ _____ _____ _____ _____ _____ _____ _____

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	95
3/4"	83
1/2"	73
3/8"	64
No. 4	48
No. 10	36
No. 16	31
No. 40	24
No. 50	22
No. 100	18
No. 200	15

Liquid Limit	<u>29</u>	
Plastic Index	<u>9</u>	
Specific Gravity	_____	
Resistance Value	<u>58</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>11.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-426-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 448+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 20'
 Sample No.: 10 County: LYON

Sample Type: RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: _____

 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		0--
2--	Silt, Sand, Gravel	100
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	97
3/4"	92
1/2"	84
3/8"	79
No. 4	58
No. 10	43
No. 16	37
No. 40	26
No. 50	22
No. 100	17
No. 200	13

Liquid Limit 23
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 77
 Cover Stabilometer _____ Expansion Pressure _____
 Thickness 4.5
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-a

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05B, RV-427-11
 E.A.: 73537 Job Description: US50A/95A FROM LY0.00 TO LY1.00
 Date Rec'd: 7/28/11
 Samplers: BAKER, McFARREN Station: "P" 448+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 20'
 Sample No.: 10A County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	_____ _____ Silt, Sand, Gravel _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ 100 _____ _____ _____ _____ _____ _____ _____ _____ _____

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	95
3/8"	93
No. 4	81
No. 10	61
No. 16	51
No. 40	37
No. 50	33
No. 100	25
No. 200	19

Liquid Limit	<u>27</u>	
Plastic Index	<u>NP</u>	
Specific Gravity	_____	
Resistance Value	<u>79</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>3.8</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-393-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 655+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 22'
 Sample No.: 1 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	0-- Silt, Sand, Very Lt Gravel Lt Clay 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	100

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	96
1/2"	94
3/8"	90
No. 4	83
No. 10	75
No. 16	71
No. 40	61
No. 50	55
No. 100	42
No. 200	31

Liquid Limit	<u>25</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>41</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>16.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-394-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 665+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 21'
 Sample No.: 2 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	0-- Silt, Sand, Gravel Clay 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	100

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	96
3/8"	91
No. 4	82
No. 10	70
No. 16	64
No. 40	53
No. 50	47
No. 100	35
No. 200	28

Liquid Limit	<u>30</u>	
Plastic Index	<u>10</u>	
Specific Gravity	_____	
Resistance Value	<u>38</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>17.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-395-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 675+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): _____ Lt. _____ Rt. 21'
 Sample No.: 3 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Lt Gravel Lt Clay	0-- 2-- 4-- 100 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	99
3/4"	99
1/2"	91
3/8"	87
No. 4	78
No. 10	66
No. 16	61
No. 40	50
No. 50	45
No. 100	35
No. 200	27

Liquid Limit	<u>26</u>	
Plastic Index	<u>9</u>	
Specific Gravity	_____	
Resistance Value	<u>51</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>13.5</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-396-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 685+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 20'
 Sample No.: 4 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Silt, Sand, Gravel	100
Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/>	4--	silt, sand, gravel, cobbles	300
Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/>	6--	Silt, Sand, Gravel	100
Gravel Depth (in) _____ Oil Depth (in) _____	8--		
Remarks: <u>Cobbles are present from 2'-3½'; 300 psi was applied.</u>	10--		
	12--		
	14--		
	16--		
Submitted By: <u>O. ALTAMIRANO</u>	18--		
Title: <u>Engineering Technician III</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	98
3/4"	89
1/2"	83
3/8"	78
No. 4	63
No. 10	49
No. 16	43
No. 40	33
No. 50	29
No. 100	23
No. 200	18

Liquid Limit	<u>23</u>	
Plastic Index	<u>4</u>	
Specific Gravity	_____	
Resistance Value	<u>70</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>6.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-397-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 695+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. _____ Rt. 20'
 Sample No.: 5 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Clay Very Very Lt Gravel	0-- 2-- 4-- 100 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	98
1/2"	96
3/8"	94
No. 4	87
No. 10	79
No. 16	74
No. 40	66
No. 50	62
No. 100	54
No. 200	44

Liquid Limit	<u>36</u>	
Plastic Index	<u>16</u>	
Specific Gravity	_____	
Resistance Value	<u>35</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>19.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-6(3)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-398-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 690+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): Lt. 20' Rt. _____
 Sample No.: 6 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand Gravel	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	97
3/4"	97
1/2"	83
3/8"	78
No. 4	65
No. 10	55
No. 16	51
No. 40	43
No. 50	39
No. 100	33
No. 200	26

Liquid Limit	<u>34</u>	
Plastic Index	<u>12</u>	
Specific Gravity	_____	
Resistance Value	<u>35</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>19.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-6(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-399-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 680+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. 21' Rt. _____
 Sample No.: 7 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Gravel	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20-- 100

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	92
1/2"	84
3/8"	75
No. 4	58
No. 10	45
No. 16	39
No. 40	28
No. 50	24
No. 100	18
No. 200	13

Liquid Limit	<u>22</u>	
Plastic Index	<u>3</u>	
Specific Gravity	_____	
Resistance Value	<u>73</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>5.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-400-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 670+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft): Lt. 20' Rt. _____
 Sample No.: 8 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input checked="" type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Cobbles are present from 4' to 5' 300 psi was applied.</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Silt, Sand, Gravel, Lt Clay ----- silt, sand gravel, cobbles	0-- 2-- 4-- 100 6-- 300 8-- 10-- 12-- 14-- 16-- 18-- 20--

Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	94
3/4"	94
1/2"	92
3/8"	89
No. 4	77
No. 10	68
No. 16	64
No. 40	54
No. 50	49
No. 100	39
No. 200	30

Liquid Limit	<u>26</u>	
Plastic Index	<u>9</u>	
Specific Gravity	_____	
Resistance Value	<u>34</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>19.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-401-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 660+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. 20' Rt. _____
 Sample No.: 9 County: LYON

Sample Type: RV Sub Chem DC Other
 Vegetation: None Trees Shrubs
 Brushy Grassy
 Cut Section Fill Section
 Taken Through Oil Taken on Shoulder
 Gravel Depth (in) _____ Oil Depth (in) _____
 Remarks: _____

 Submitted By: O. ALTAMIRANO
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		
2--	Silt, Sand, Gravel	
4--		100
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	93
3/4"	91
1/2"	86
3/8"	78
No. 4	62
No. 10	49
No. 16	44
No. 40	34
No. 50	31
No. 100	22
No. 200	16

Liquid Limit 24
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 68
 Cover Stabilometer _____
 Thickness 7.6 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 9/21/11
 Lab No.: S11-05A, RV-402-11
 E.A.: 73537 Job Description: US 50A/95A FROM LY 5.00 TO 6.00
 Date Rec'd: 7/27/11
 Samplers: BAKER, McFARREN Station: "P" 650+00 Route: US 50A/95A
ALTAMIRANO Location from CL (ft) Lt. 20' Rt. _____
 Sample No.: 10 County: LYON

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input checked="" type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: _____ _____ _____ Submitted By: <u>O. ALTAMIRANO</u> Title: <u>Engineering Technician III</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	silt, sand, vry vry lt gravel very lt clay	0-- 2-- 4-- 100 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	95
1/2"	91
3/8"	90
No. 4	84
No. 10	77
No. 16	72
No. 40	62
No. 50	56
No. 100	44
No. 200	33

Liquid Limit	<u>27</u>	
Plastic Index	<u>8</u>	
Specific Gravity	_____	
Resistance Value	<u>33</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>19.7</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

