STATE OF NEVADA

DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

GEOTECHNICAL SECTION

LINE SAMPLING DATA

US50, Lyon County, from Roy's Road to the Junction with US95A

Cum. Mile LY 19.90 to LY 29.44

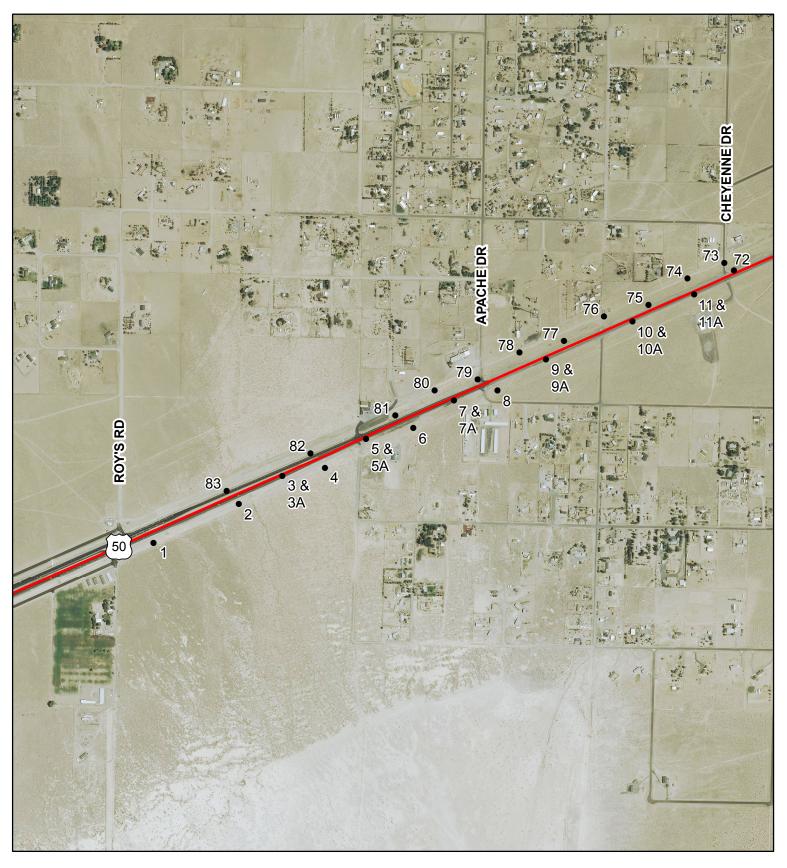
Part I

LYON COUNTY, NEVADA

EA 60715

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.



N • Drill Holes

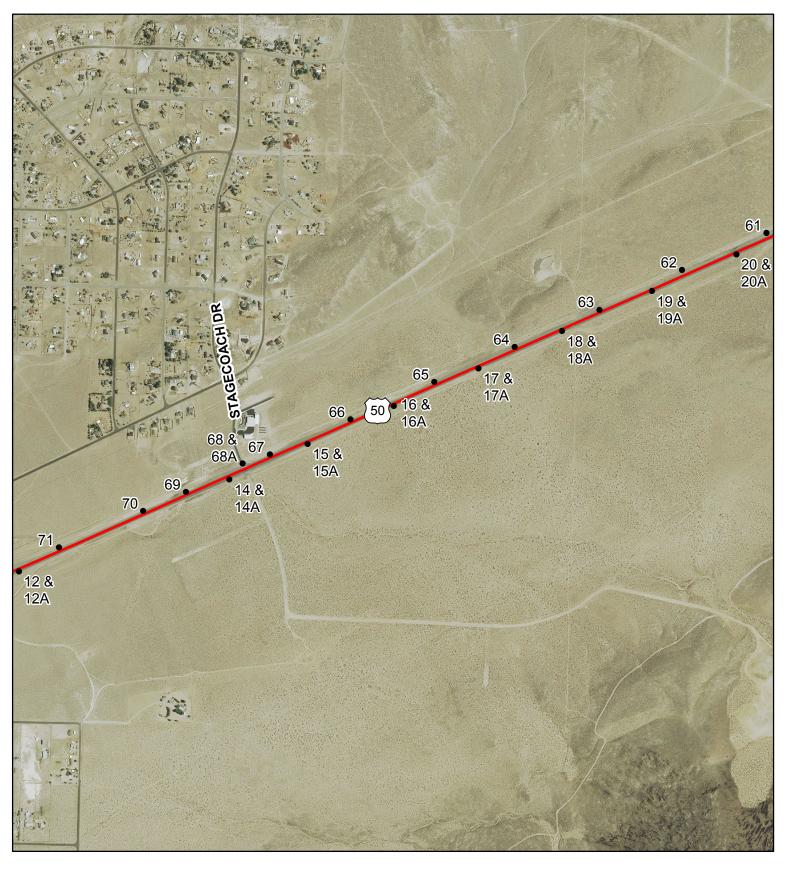
US-50 from just east of Roy's Rd to just east of Ramsey Weeks Cutoff.
LY 20.39 to LY 25.61

0 660 1,320 1,980 2,640 Feet





Rudy Malfabon, P.E. Director



Drill Holes

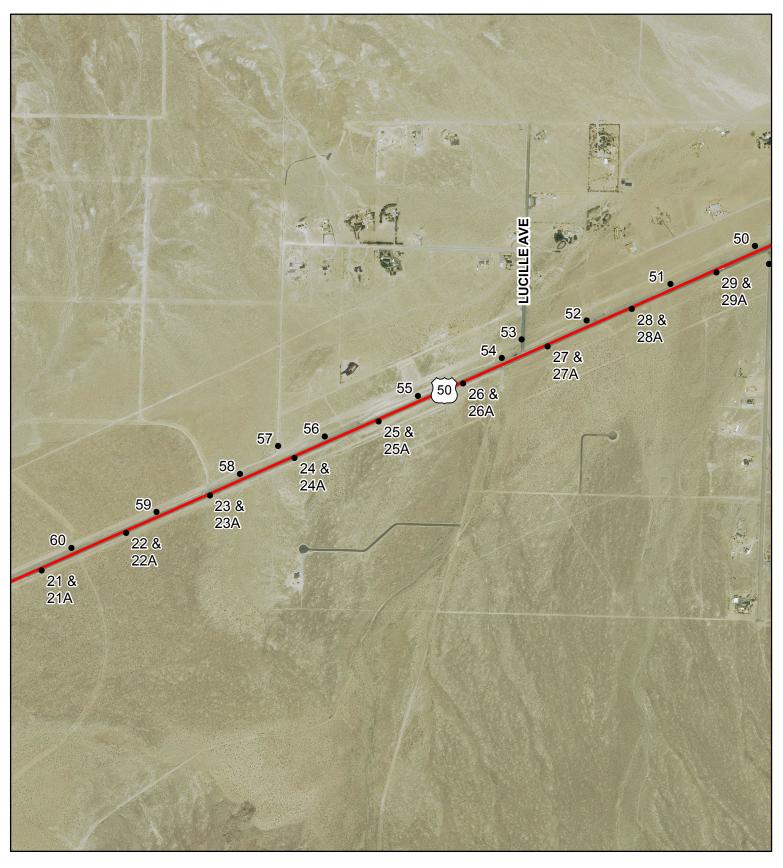
US-50 from just east of Roy's Rd to just east of Ramsey Weeks Cutoff. LY 20.39 to LY 25.61

660 1,320 1,980 2,640 0 ⊐ Feet





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



Drill Holes

US-50 from just east of Roy's Rd to just east of Ramsey Weeks Cutoff.
LY 20.39 to LY 25.61

0 660 1,320 1,980 2,640 Feet

1:12,500







Drill Holes

US-50 from just east of Roy's Rd to just east of Ramsey Weeks Cutoff. LY 20.39 to LY 25.61

1,980 2,640 0 660 1,320 ⊐ Feet





Date Reported: Lab No.:	8/24/11 S11-03, RV	V-201-11					
E.A.:	73475		Job Description	us 50 FRO	M LY 20.39 TO LY	25.61	
Date Rec'd	6/13/11						
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1100-	⊦00	Route US 5	50
Wimer			Location	from CL (ft)	Lt	Rt 12	<u>.0'</u>
Sample No.:	1		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □	DC Other	· 🗆 0			0 100
Vegetation:	None □	Trees □ Shru	bs 🗆	2	Si	lt	2
	Brushy \square	Grassy =		4	Sar	nd	4
Cut Section		Fill Section		6			6
Taken Through Oil	l 🗆	Taken on Shoulder		8			8
Gravel Depth (in)		Oil Depth (in)		10			10
Remarks:	6" Tall chea	t grass		12			12
				14			14
				16			16
Submitted By:	ALTAMII	RANO		18			18
Title:	Engineerin	ng Technician III		20			20
	Sieve Size	% Passing		Liquid Limit	34	_	
	3"			Plastic Index	16	_	
	2"			Specific Grav	rity	_	
	1.5"			Resistance V	alue 15	_	
	1"			Cover	Stabilometer	Expan	nsion Pressure
	3/4"			Thickn	ess 17.4	_	
	1/2"						
	3/8"	100		Sa	and Equivalent		
	No. 4	99		Na	atural Moisture, %	_	
	No. 10	96		Re	esistivity	_	
	No. 16	92		pH	I Factor	_	
	No. 40	83		A	ASHTO Classification	A-6(6)	
	No. 50	79					
	No. 100	69					
	No. 200	56					
Remarks:							

Date Reported: Lab No.:	8/24/11 S11-03, RV	V-202-11						
E.A.:	73475	7 202 11	Job Description:	US 50 FROM	LY 20.39 TO LY	25.61		
Date Rec'd	6/13/11		<u>r</u>					
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1110+00)	Route	US 50	
Wimer		, <u> </u>		From CL (ft)	Lt.	_	t. 120'	
Sample No.:	2		County:	LYON		-		
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub □	Chem □ I	OC Other	O			0	100
Vegetation:	None □	Trees Shrub	os 🗆	2	Silt, S	Sand	2	
	Brushy \square	Grassy		4	Extremely l	Lt. Gravel	4	
Cut Section		Fill Section		6			6	
Taken Through Oi	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:	6" Tall chea	t grass		12			12	
				14			14	
				16			16	
Submitted By:	ALTAMII	RANO		18			18	
Title:	Engineerin	ng Technician III		20			20	
	3" 2" 1.5" 1" 3/4"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	e 20 Stabilometer	- - -	Expansion I	Pressure
	1/2"					_		
	3/8"	100		Sand	Equivalent			
	No. 4	99		Natur	ral Moisture, %			
	No. 10	97		Resis	stivity			
	No. 16	96		pH Fa	actor			
	No. 40	89		AAS	HTO Classification	A-7-6(16))	
	No. 50	87						
	No. 100	82						
	No. 200	76						
Remarks:								

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-203-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FI	ROM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	10, Rigsby	_	Station	"X2" 11	15+31		Route	e <u>US 50</u>	
Wimer			_	Location fro		Lt.		_ R	tt. <u>20'</u>	
Sample No.:	3			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other	0				0	100
Vegetation:	None	Trees	Shrubs \square		2		Silt, Sand	, Gravel	2	
	Brushy \square	Grassy			_ 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16	100 96 83 76 58 43 36	- - - - -		Plastic Ind Specific G Resistance Cover Thio	avity	oisture, %	-	Expansion F	ressure
	No. 40	26	_			AASHTO	Classification	A-1-a		
	No. 50	23	_							
	No. 100	17								
	No. 200	13	_							
Remarks:										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-204-11			=					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Rigsby	-	Station	"X2" 111				<u>US 50</u>	
Wimer			<u>-</u>	Location fro		Lt.		_ Rt	. <u>20'</u>	
Sample No.:	3A			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	Во	oring Description			PSI
RV ■	Sub □		DC 🗆	Other	-				0	100
Vegetation:		Trees \square	Shrubs \square		2				2	
	Brushy	•			- 4		silt, sand, vry	lt grvl, clay		
Cut Section		1 111 50001011			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					- 14				14	
					<u> </u>				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ing Technician	1111		20				20	
	Sieve Size	% Passing			Liquid Lin	nit	30	_		
	3"		_		Plastic Inde	ex	14	_		
	2"		_		Specific G	ravity		_		
	1.5"		_		Resistance	Value	26	_		
	1"	100	_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	98	_		Thic	kness	20.4	_		
	1/2"	96	_							
	3/8"	95	_			Sand Equi	valent			
	No. 4	92	_			Natural M	oisture, %			
	No. 10	86	_			Resistivity				
	No. 16	83	_			pH Factor				
	No. 40	75	_			AASHTO	Classification	A-6(4)		
	No. 50	71	_							
	No. 100	63	_							
	No. 200	51								
Remarks:										

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-205-11			_					
E.A.:	73475	-	Job D	escription:	US 50 FR	ROM LY 2	20.39 TO LY	25.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamirar	no, Rigsby	_	Station	"X2" 112	20+00		Route	US 50	
Wimer			<u>.</u>	Location fro		Lt.		_ Rt	130'	
Sample No.:	4			County:	LYON					
Sample Type:					Depth (ft)	Box	ring Description			PSI
RV ■	Sub □		DC 🗆	Other	0				0	100
Vegetation:		Trees □	Shrubs		2		Sil	t	2	
	Brushy \square	Grassy =			_ 4		San	ıd	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:	6" tall chea	t grass			12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
Remarks:	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 96 93 86 84 79				ex ravity Value Ekness Sand Equiv Natural Mo Resistivity pH Factor		A-6(11)	Expansion F	Pressure

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-206-11								
E.A.:	73475		Job D	Description:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Rigsby		Station	"X2" 1120	6+00		Route	e <u>US 50</u>	
Wimer				Location fro	om CL (ft)	Lt.		R	tt. 20'	
Sample No.:	5			County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	l Chem □	DC 🗆	Other \Box	0				0	100
Vegetation:	None	Trees □ S	Shrubs 🗆		2		Silt, Sand	, Gravel	2	
	Brushy \square	Grassy □			4				4	
Cut Section		Fill Section	1		6				6	
Taken Through Oil	l 🗆	Taken on Shoulde	er =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician I	II		20				20	
	Sieve Size	% Passing			Liquid Lim	it	23	_		
	3"				Plastic Inde	X	4	_		
	2"				Specific Gra	avity		_		
	1.5"				Resistance '	Value	73	_		
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	97			Thick	kness	5.4	_		
	1/2"	74								
	3/8"	65			S	Sand Equi	valent			
	No. 4	45			1	Natural M	oisture, %			
	No. 10	32			I	Resistivity	,	-		
	No. 16	27			I	H Factor				
	No. 40	20			1	AASHTO	Classification	A-1-a		
	No. 50	18								
	No. 100	15								
	No. 200	11								
Remarks:										
Tomarks.										
		<u> </u>						<u></u>		

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-207-11		_				
E.A.:	73475	Job 1	Description:	US 50 FROM	LY 20.39 TO LY	25.61		
Date Rec'd	6/13/11	_						
Samplers:	Altamira	no, Rigsby	Station	"X2" 1126+0	0	Route	US 50	
Wimer			Location fro		Lt.	Rt.	20'	
Sample No.:	5A		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub [Chem □ DC □	Other -	0			0	100
Vegetation:	None	Trees □ Shrubs □		2			2	
	Brushy \Box	I Grassy □		_ 4	Silt, Sand,	Lt Gravel	4	
Cut Section □		Fill Section		6			6	
Taken Through Oil	1 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)	_	10			10	
Remarks:				12			12	
				14			14	
				16			16	
Submitted By:	ALTAM	IRANO		18			18	
Title:	Engineer	ing Technician III		20			20	
	Sieve Size	% Passing		Liquid Limit	25			
	3"			Plastic Index	8	_		
	2"			Specific Gravity	у	_		
	1.5"			Resistance Valu		_		
	1"			Cover	Stabilometer	- J	Expansion F	Pressure
	3/4"	100		Thickness	s 19.7		-	
	1/2"	99				_		
	3/8"	95		Sand	l Equivalent			
	No. 4	91		Natu	ıral Moisture, %			
	No. 10	85		Resis	stivity			
	No. 16	80		рН Б	Factor			
	No. 40	70		AAS	SHTO Classification	A-4(0)		
	No. 50	66						
	No. 100	56						
	No. 200	42						
Remarks:	-							
								·
				· · · · · · · · · · · · · · · · · · ·				

Date Reported: Lab No.:	8/24/11 S11-03, RV	V-208-11						
E.A.:	73475		Job Description:	US 50 FROM	LY 20.39 TO LY	25.61		
Date Rec'd	6/13/11							
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1130+00		Route	e <u>US 50</u>	
Wimer			Location fro	om CL (ft)	Lt	R	t. 125'	
Sample No.:	6		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub □	Chem □ □	OC Other	<u> </u>			0	100
Vegetation:	None □	Trees □ Shrub	s \square	2	Silt, S	Sand	2	
	Brushy \square	Grassy =		4	Extremely 1	Lt. Gravel	4	
Cut Section		Fill Section		6			6	
Taken Through Oil	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)	-	Oil Depth (in)		10			10	
Remarks:	3" tall cheat	grass		12			12	
				14			14	
				16			16	
Submitted By:	ALTAMII	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	Sieve Size	% Passing		Liquid Limit	44	_		
	3"			Plastic Index	24	_		
	2"			Specific Gravity		<u></u>		
	1.5"			Resistance Value	e 20	<u></u>		
	1"			Cover	Stabilometer		Expansion I	Pressure
	3/4"	100		Thickness	16.3	_		
	1/2"	99						
	3/8"	97		Sand	Equivalent			
	No. 4	91		Natur	al Moisture, %			
	No. 10	81		Resis	tivity			
	No. 16	75		pH Fa	actor			
	No. 40	63		AASI	HTO Classification	A-7-6(5)		
	No. 50	59						
	No. 100	50						
	No. 200	41						
D 1								
Remarks:								

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-209-11								
E.A.:	73475		Job D	Description:	US 50 FRO	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Rigsby		Station	"X2" 1135	5+00		Rout	e <u>US 50</u>	
Wimer				Location fro	om CL (ft)	Lt.		R	kt. 35'	
Sample No.:	7	_		County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \Box	0				0	100
Vegetation:	None	Trees □ Sh	rubs 🗆		2		Silt, Sand	, Gravel	2	
	Brushy \square	Grassy □			4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	l 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician II	[20				20	
	Sieve Size	% Passing			Liquid Limi	t	22	_		
	3"				Plastic Index	X	2	_		
	2"				Specific Gra	avity		_		
	1.5"				Resistance V	Value	62	_		
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	98			Thick	ness	8.9	_		
	1/2"	80								
	3/8"	73			S	Sand Equi	valent	-		
	No. 4	53			N	Natural M	oisture, %			
	No. 10	42			F	Resistivity				
	No. 16	37			p	H Factor				
	No. 40	27			A	ASHTO	Classification	A-1-a		
	No. 50	23								
	No. 100	17								
	No. 200	12								
Remarks:										
remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-210-11						
E.A.:	73475	_	Job Description:	US 50 FROM	M LY 20.39 TO LY	25.61		
Date Rec'd	6/13/11	_						
Samplers:	Altamira	no, Rigsby	Station	"X2" 1135+	00	Route	US 50	
Wimer			Location f	from CL (ft)	Lt	Rt.	35'	
Sample No.:	7A		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub □	l Chem □ I	OC Other	<u> </u>			0	100
Vegetation:	None	Trees Shrub	os 🗆	2			2	
	Brushy \square	Grassy □		4	silt, sand, vry	lt grvl, clay	4	
Cut Section		Fill Section		6			6	
Taken Through Oil	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:	1			12			12	
				14			14	
				16			16	
Submitted By:	ALTAMI	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	Sieve Size 3" 2" 1.5" 1"	% Passing		Liquid Limit Plastic Index Specific Gravi Resistance Va		- - -	Expansion F	Pressure
	3/4"	97		Thickne			2. pansion i	1055410
	1/2"	94		2111011110		_		
	3/8"	93		San	nd Equivalent			
	No. 4	90			tural Moisture, %			
	No. 10	85			sistivity			
	No. 16	82			Factor			
	No. 40	73		-	SHTO Classification	A-4(1)		
	No. 50	69						
	No. 100	59						
	No. 200	43						
Remarks:								

Date Reported: Lab No.:	8/24/11 S11-03, RV	V-211-11								
E.A.:	73475		Job Des	cription:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11									
Samplers:	Altamiran	o, Rigsby	S	tation	"X2" 1139	9+00		Route	US 50	
Wimer			L	ocation fro	m CL (ft)	Lt.		Rt	t. <u>130'</u>	
Sample No.:	8		C	county:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC \square	Other \square	0				0	100
Vegetation:	None □	Trees □ Shr	rubs 🗆		2		Sil	t	2	
	Brushy \square	Grassy =			4		San	d	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	l 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	6" tall cheat	grass			12				12	
	1				14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	3" 2" 1.5" 1"	% Passing			Liquid Limi Plastic Inde Specific Gra Resistance Cover	x avity Value	20 3 16 Stabilometer	- - -	Expansion I	Pressure
	3/4"				Thick	iness	17.2	_		
	3/8"	100			C	Sand Equi	volont			
	No. 4	98				-	oisture, %	-		
	No. 10	94				Resistivity				
	No. 16	90				H Factor				
	No. 40	77			-		Classification	A-2-4(0)		
	No. 50	69			F	AASIIIO	Classification	A-2-4(0)		
	No. 100	52								
	No. 200	33								
Remarks:	110. 200									
_										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-212-11								
E.A.:	73475	V-212-11	Ioh Γ	Description:	- - US 50 FR	OMIV	20.39 TO LY	25 61		
Date Rec'd	6/13/11	-	300 L	escription.	CD 30 FR	ONILI	20.37 10 11	25.01		
Samplers:		- 10, Rigsby		Station	"X2" 114	5+00		Rout	e US 50	
Wimer	111111111111111111111111111111111111111	10, 111800,		Location fro		Lt.			at. 30'	
Sample No.:	9	_		County:	LYON			_		
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \square	0				0	100
Vegetation:	None	Trees S	Shrubs 🗆		2		Silt, Sand	, Gravel	2	
	Brushy \square	Grassy □			4				4	
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Should	er =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:				_	12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician l	Ш		20				20	
	Sieve Size	% Passing			Liquid Lim	it	21	_		
	3"				Plastic Inde	ex	2	_		
	2"				Specific Gr	avity		_		
	1.5"	100			Resistance	Value	41	_		
	1"	95			Cover		Stabilometer		Expansion 1	Pressure
	3/4"	91			Thick	kness	15.6	_		
	1/2"	75								
	3/8"	64			Š	Sand Equi	valent			
	No. 4	48			I	Natural M	oisture, %			
	No. 10	38]	Resistivity				
	No. 16	34			I	pH Factor				
	No. 40	25			1	AASHTO	Classification	<u>A-1-a</u>		
	No. 50	21								
	No. 100	15								
	No. 200	11								
D 1										
Remarks:										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-213-11								
E.A.:	73475	_	Job D	Description:	US 50 FR	ROM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Rigsby	-	Station	"X2" 114			 '	US 50	
Wimer			<u>-</u>	Location fro		Lt.		_ R	t. <u>30'</u>	
Sample No.:	9A			County:	LYON					
Sample Type:	_	_	_	_	Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	-				0	100
Vegetation:		Trees \square	Shrubs		2				2	
	Brushy	•			- 4		silt sand lt g	grvl lt clay	4	
Cut Section		1 111 50001011			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ing Technician	III		20				20	
	Sieve Size	% Passing			Liquid Lin	nit	19	_		
	3"		-		Plastic Inde	ex	3	_		
	2"		_		Specific G	ravity		_		
	1.5"				Resistance	Value	60			
	1"				Cover		Stabilometer		Expansion F	Pressure
	3/4"	100			Thic	kness	9.5			
	1/2"	90	_							
	3/8"	86				Sand Equ	ivalent			
	No. 4	78				Natural M	loisture, %			
	No. 10	70				Resistivity	y			
	No. 16	66				pH Factor	•			
	No. 40	55	-			AASHTO	Classification	A-2-4(0)		
	No. 50	49	-							
	No. 100	35	-							
	No. 200	24	-							
		•	_							
Remarks:										
_										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-214-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FI	ROM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Rigsby	_	Station	"X2" 11:	55+00		Route	US 50	
Wimer			_	Location fro		Lt.		R	t. <u>30'</u>	
Sample No.:	10			County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other	<u> </u>				0	100
Vegetation:	None	Trees \square	Shrubs \square		2		Silt, Sand, G	ravel, Clay	2	
	Brushy \square	Grassy			_ 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		<u>-</u>	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	III		_ 20				20	
	Sieve Size	% Passing			Liquid Lir	mit	20			
	3"	70 Tassing	-		Plastic Inc		20	_		
	2"		_		Specific G			_		
	1.5"		-		Resistance	-	39	_		
	1.3		-		Cover	value	Stabilometer	_	Expansion F	Orgenira
	3/4"	100	-			ckness	16.2		Expansion i	icssuic
	1/2"	83	-		11110	CKIICSS	10.2	_		
	3/8"	72	-			Sand Equi	volant			
	No. 4	54	-			Natural M				
	No. 10	42	=			Resistivity		-		
	No. 16	36	=			pH Factor		-		
	No. 40	26	=			•	Classification	Δ-1-9		
	No. 50	22	-			AASIIIO	Classification	A-1-a		
	No. 100	16	=							
	No. 200	11	=							
	140. 200	11	-							
Remarks:										
•										

Date Reported:	8/24/11 S11 02 D	- V 215 11								
Lab No.: E.A.:	S11-03, R 73475	V-215-11	Ioh D	Description:	_ _ IIS 50 FD	OMIV	20.39 TO LY 2	05 61		
Date Rec'd	6/13/11	-	J00 L	escription.	US 30 F K	ONLLI	20.39 TO LT 2	23.01		
Samplers:		- 10, Rigsby		Station	"X2" 115	5_00		Poute	US 50	
Wimer	Aitaiiii ai	io, Rigsby		Location fro		Lt.		•	t. 30'	
Sample No.:	10A			County:	LYON	Lt.	•			
Sample Type:					Depth (ft)	В	Soring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other □					0	100
Vegetation:			ubs 🗆		2				2	
S		Grassy			4		silt sand lt g	rvl lt clay	4	
Cut Section	•	Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:				_	12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	3" 2" 1.5"				Plastic Inde Specific Gr Resistance	ravity	NP 72			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thic	kness	5.7			
	1/2"	94								
	3/8"	92				Sand Equ	ivalent			
	No. 4	82				Natural M	loisture, %			
	No. 10	73				Resistivit	у			
	No. 16	68			•	pH Factor				
	No. 40	48				AASHTC	O Classification	A-1-b		
	No. 50	39								
	No. 100	27								
	No. 200	20								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	_ 2V-216-11		_					
E.A.:	73475		ob Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_		-					
Samplers:	Altamira	no, Rigsby	Station	"X2" 116	5+00		Route	e <u>US 50</u>	
Wimer			Location fro		Lt.		R	.t. <u>35'</u>	
Sample No.:	11		County:	LYON					
Sample Type:				Depth (ft)	В	oring Description			PSI
RV ■	Sub [Other 🗆	_				0	100
Vegetation:	None	Trees □ Shrubs		2		silt sand gra	avel clay	2	
	Brushy -	l Grassy □		_ 4				4	
Cut Section		Fill Section		6				6	
Taken Through Oi	1 🗆			8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				_ 12				12	
				_ 14				14	
				_ 16				16	
Submitted By:	ALTAM			_ 18				18	
Title:	Engineer	ing Technician III		20				20	
	Sieve Size	% Passing		Liquid Lim Plastic Inde	ex	20			
	2"			Specific Gr	-		=		
	1.5"			Resistance	Value	69	-		_
	1"	100		Cover		Stabilometer		Expansion I	ressure
	3/4"	100		Thick	kness	6.7			
	1/2"	86			0 1F '	1			
	3/8"	63			Sand Equi				
	No. 4	49			Naturai M Resistivity	loisture, %			
	No. 16	43			oH Factor				
	No. 40	31		-		Classification	A-1-b		
	No. 50	27		1	AASIIIO	Classification	A-1-0		
	No. 100	19							
	No. 200	14							
	110. 200	17							
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-217-11					
E.A.:	73475		Job Description:	US 50 FROM I	LY 20.39 TO LY	25.61	
Date Rec'd	6/13/11	-					
Samplers:	Altamira	no, Rigsby	Station	"X2" 1165+00		Route US 50	1
Wimer			Location fro	om CL (ft)	Lt.	Rt. 35'	
Sample No.:	11A		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	l Chem □ Do	C □ Other □	<u> </u>			0 100
Vegetation:	None	Trees □ Shrubs		2			2
	Brushy \square	Grassy		4	silt sand lt g	rvl lt clay	4
Cut Section		Fill Section		6			6
Taken Through Oil	l 🗆	Taken on Shoulder		8			8
Gravel Depth (in)		Oil Depth (in)		10		1	.0
Remarks:				12		1	2
				14		1	4
				16		1	.6
Submitted By:	ALTAMI	RANO		18		1	.8
Title:	Engineeri	ng Technician III		20		2	20
	Sieve Size	% Passing		Liquid Limit	19	_	
	3"			Plastic Index	1	_	
	2"			Specific Gravity		_	
	1.5"			Resistance Value	41	_	
	1"			Cover	Stabilometer	Expans	ion Pressure
	3/4"	100		Thickness	15.6	<u> </u>	
	1/2"	99					
	3/8"	97		Sand I	Equivalent		
	No. 4	93		Natura	al Moisture, %		
	No. 10	89		Resisti	ivity		
	No. 16	86		pH Fa	ctor		
	No. 40	73		AASH	ITO Classification	A-2-4(0)	
	No. 50	64					
	No. 100	44					
	No. 200	28					
Remarks:							
_							

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-218-11					
E.A.:	73475	Job l	Description:	US 50 FROM L	Y 20.39 TO LY 2	25.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamira	no, Rigsby	Station	"X2" 1175+00		Route US 50	
Wimer			Location fro	om CL (ft)	Lt.	Rt. 20'	
Sample No.:	12		County:	LYON	-		
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem DC	Other □	0		0-	100
Vegetation:	None	Trees □ Shrubs □		2	Silt Sand Grav	vel lt Clay 2.	-
	Brushy	l Grassy □		4		4-	-
Cut Section		Fill Section		6		6-	
Taken Through Oi	1 🗆	Taken on Shoulder		8		8-	
Gravel Depth (in)		Oil Depth (in)	_	10		10-	
Remarks:				12		12-	
				14		14-	
				16		16-	-
Submitted By:	ALTAM	IRANO		18		18-	-
Title:	Engineer	ing Technician III		20		20-	-
	Sieve Size 3" 2"	% Passing		Liquid Limit Plastic Index Specific Gravity	<u>25</u> 5		
	1.5"			Resistance Value	68		
	1"	100		Cover	Stabilometer	Expansion	n Pressure
	3/4"	98		Thickness	7.0		
	1/2"	93					
	3/8"	82		Sand E	quivalent		_
	No. 4	66		Natural	Moisture, %		_
	No. 10	55		Resistiv	vity		
	No. 16	49		pH Fac	tor		_
	No. 40	37		AASH	ΓΟ Classification	A-1-b	_
	No. 50	32					
	No. 100	23					
	No. 200	17					
Remarks:							

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-219-11								
E.A.:	73475		Job De	scription:	US 50 FRO	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	-		_						
Samplers:	Altamira	10, Rigsby	S	Station	"X2" 1175	5+00		Route	US 50	
Wimer			I	Location fro	om CL (ft)	Lt.		R	t. 20'	
Sample No.:	12A	_	(County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC □	Other □	0				0	100
Vegetation:	None	Trees □ Shru	ubs 🗆		2				2	
	Brushy \square	Grassy			4		silt sand lt g	rvl lt clay	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:			-		12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	3" 2"	% Passing			Liquid Limi Plastic Index Specific Gra	x avity	19 2	- - -		
	1.5"				Resistance V	Value	58	-		
	1"	100			Cover		Stabilometer		Expansion I	ressure
	3/4"	100			Thick	ness	10.2	-		
	1/2"	97			0		1			
	3/8"	96				and Equi				
	No. 4	93					oisture, %			
	No. 10	88 85				Resistivity H Factor				
	No. 16	71			-		Classification	A-2-4(0)	<u> </u>	
	No. 40	62			P	АЗПІО	Classification	A-2-4(U))	
	No. 50	41								
	No. 200	27								
	10. 200	21								
Remarks:										
Kemarks.										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-220-11							
E.A.:	73475		Job Description	on: US 50 FF	ROM LY	Z 20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_							
Samplers:	Altamira	no, Rigsby	Station	"X2" 120	00+50		Route	e <u>US 50</u>	
Wimer			Locatio	on from CL (ft)	Lt	t	R	tt. 40'	
Sample No.:	14		County	: LYON					
Sample Type:				Depth (ft)]	Boring Description			PSI
RV ■	Sub □	l Chem □	DC □ Oth	<u>ler □</u> 0				0	100
Vegetation:	None	Trees □ Shru	bs 🗆	2		Silt Sand	Gravel	2	
	Brushy \square	Grassy □		4				4	
Cut Section		Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	3" 2" 1.5"	100		Plastic Ind Specific G Resistance	ravity	62	· · ·		
	1"	99		Cover		Stabilometer		Expansion I	Pressure
	3/4"	95		Thic	ckness	8.9			
	1/2"	78							
	3/8"	72			Sand Equ				
	No. 4	65				Moisture, %			
	No. 10	56			Resistivi	•			
	No. 16	51			pH Facto				
	No. 40	40			AASHTO	O Classification	A-1-b		
	No. 50	35							
	No. 100	17							
	No. 200	17							
Remarks:									

Date Reported:	8/24/11	- 57 001 11								
Lab No.:	S11-03, R	V-221-11			_ 		20 20 TO 1 W	NE (1		
E.A.:	73475	-	Job L	Description:	US 50 F R	OMLY	20.39 TO LY	25.01		
Date Rec'd	6/13/11	- Diaska		Ct. ti	UV2U 120	0.50		D	TIC FO	
Samplers:	Altamirai	no, Rigsby		Station	"X2" 120				US 50	
Wimer Sample No.	14A	_		Location fro	LYON	Lt.		Rt	. 40'	
Sample No.:	14A			County:						DGI
Sample Type: RV ■	Sub □	l Chem □	DC 🗆	Other □	Depth (ft) 0	В:	oring Description		0	PSI 100
Vegetation:			Shrubs \square	Other L	2				2	100
vegetation.		Grassy	Siliuos 🗀		2 4		Silt Sand Vry	I t Graval	4	
Cut Section	Brushy —	T''' 0 '	T		- 6		Silt Salid VI	Li Giavei	6	
Taken Through Oil	l 🗆	Taken on Should			8				8	
Gravel Depth (in)	і Ш	Oil Depth (in)			10				10	
Remarks:		On Depth (iii)		-	12				12	
Kemarks.					14				14	
					- 16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:		ng Technician	III		20				20	
	Sieve Size	% Passing			Liquid Lim	nit	19	-		
	3"				Plastic Inde	ex	3	-		
	2"				Specific G	ravity		-		
	1.5"				Resistance	Value	59	_		
	1"	100			Cover		Stabilometer		Expansion 1	Pressure
	3/4"	94			Thic	kness	9.9	-		
	1/2"	89								
	3/8"	88				Sand Equi				
	No. 4	85					loisture, %			
	No. 10	80				Resistivity				
	No. 16	77			•	pH Factor				
	No. 40	64				AASHTO	Classification	A-2-4(0)		
	No. 50	56								
	No. 100	38								
	No. 200	25								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-222-11					
E.A.:	73475	Job 1	Description:	US 50 FROM I	LY 20.39 TO LY 2	5.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamira	no, Rigsby	Station	"X2" 1210+00		Route US 50	
Wimer			Location fro	om CL (ft)	Lt	Rt. 20'	
Sample No.:	15		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub [☐ Chem ☐ DC ☐	Other □	<u>1</u> 0) 100
Vegetation:	None	Trees □ Shrubs □		2	Silt Sand	Gravel 2	2
	Brushy \square	l Grassy □		4		2	1
Cut Section		Fill Section		6		ϵ	5
Taken Through Oi	l 🗆	Taken on Shoulder		8		8	3
Gravel Depth (in)	1	Oil Depth (in)	_	10		10)
Remarks:				12		12	2
				14		14	<u> </u>
				16		16	5
Submitted By:	ALTAM	IRANO		18		18	3
Title:	Engineer	ing Technician III		20		20)
	3" 2" 1.5" 1"	100		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover	21 1 69 Stabilometer	Expansio	on Pressure
	3/4"	97		Thickness	6.7		
	3/8"	71		C1 E	S14		
		61 48			Equivalent		_
	No. 4	37		Resisti	l Moisture, %		_
	No. 16	32		pH Fac	•		_
	No. 40	23		•	TO Classification	A-1-a	_
	No. 50	20		AASII	10 Classification	A-1-a	_
	No. 100	14					
	No. 200	10					
	140. 200	10					
Remarks:							

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-223-11			_					
E.A.:	73475	-	Job D	escription:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11					0.00			**************************************	
Samplers:	Altamirai	no, Rigsby		Station	"X2" 121			-	US 50	
Wimer	15 A			Location fro		Lt.		. R	t. <u>20'</u>	
Sample No.:	15A			County:	LYON					
Sample Type:	a		ъс П	o. –	Depth (ft)	В	Soring Description			PSI
RV =	Sub -		DC 🗆	Other	_				0	100
Vegetation:			Shrubs		2		0.11 0 1	C 1	2	
	Brushy \Box	Grassy	_		_ 4		Silt, Sand,	Gravel	4	
Cut Section Talan Thursday	. \square	I III Section	1		6				6	
Taken Through Oil	1 🗆	Taken on Should	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		-	10				10	
Remarks:					_ 12				12	
					<u> </u>				14	
C1	ALTAMI	DANO			_ 16				16	
Submitted By: Title:			TIT		_ 18				18	
Title.	Engineeri	ng Technician	111		20				20	
	Sieve Size	% Passing			Liquid Lim	nit	19			
	3"	70 T dssing			Plastic Inde		NP	-		
	2"				Specific Gi			-		
	1.5"				Resistance	-	71	-		
	1"				Cover	v aruc	Stabilometer	-	Expansion I	Oreccure
	3/4"					kness	6.0		Lapansion	ressure
	1/2"	100			Tine	Kiless		-		
	3/8"	95				Sand Equ	ivalent			
	No. 4	89				-	loisture, %			
	No. 10	80				Resistivit				
	No. 16	74				pH Factor				
	No. 40	61				-	Classification	A-2-4(0)	
	No. 50	55				717101110	Classification	11 2 1(0	<i>)</i>	
	No. 100	42								
	No. 200	31								
	1101200									
Remarks:										
·										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-224-11			=					
E.A.:	73475	-	Job D	Description:	<u>US 50 FR</u>	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamira	no, Rigsby	i	Station	''X2'' 122			='	US 50	
Wimer, McFarr				Location fro		Lt.		R	.t. <u>25'</u>	
Sample No.:	16			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description		-	PSI
RV ■	Sub □		DC 🗆	Other \square	-		0.11 0 1	C 1	0	100
Vegetation:		Trees \square	Shrubs		2		Silt Sand	Gravel	2	
	Brushy \square	•			- 4				4	
Cut Section					6				6	
Taken Through Oil		Taken on Shoul	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	ı		Liquid Lim	nit	21			
	3"		ı		Plastic Inde	ex	1			
	2"		ı		Specific Gr	ravity	-			
	1.5"				Resistance	Value	72			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thic	kness	5.7			
	1/2"	87								
	3/8"	80	i			Sand Equi	valent			
	No. 4	63				Natural M	oisture, %			
	No. 10	47				Resistivity	7			
	No. 16	41				pH Factor				
	No. 40	30				AASHTO	Classification	A-1-a		
	No. 50	25								
	No. 100	18								
	No. 200	13								
D :										
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	_ : :V-225-11									
E.A.:	·		Job Description:	US 50 FROM LY 20.39 TO LY 25.61							
Date Rec'd	6/13/11	-	1								
Samplers:		- no, Rigsby	Station	"X2" 1220+0	0	Route	US 50				
Wimer, McFarr			Location fro	om CL (ft)	Lt.		. 25'				
Sample No.:	16A		County:	LYON							
Sample Type:				Depth (ft)	Boring Description			PSI			
RV ■	Sub □	☐ Chem ☐ ☐	OC Other	0			0	100			
Vegetation:	None	Trees □ Shrub	s 🗆	2			2				
	Brushy \square	Grassy □		4	Silt Sand Ver	y Lt Clay	4				
Cut Section		Fill Section		6			6				
Taken Through Oil	l 🗆	Taken on Shoulder		8			8				
Gravel Depth (in)		Oil Depth (in)		10			10				
Remarks:				12			12				
				14			14				
				16			16				
Submitted By:	ALTAMI	IRANO		18			18				
Title:	Engineer	ing Technician III		20			20				
	Sieve Size	% Passing		Liquid Limit	24						
	3"			Plastic Index	2						
	2"			Specific Gravity							
	1.5"			Resistance Valu							
	1"			Cover	Stabilometer		Expansion I	Pressure			
	3/4"			Thicknes	s <u>5.7</u>						
	1/2"	100									
	3/8"	98			l Equivalent						
	No. 4	94			ıral Moisture, %						
	No. 10	88			stivity						
	No. 16	84		-	Factor .						
	No. 40	71		AAS	SHTO Classification	A-4(0)					
	No. 50	65									
	No. 100	53									
	No. 200	40									
Remarks:											

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-226-11			- 	O	30 30 TO 1 17	NE 61		
E.A.:	73475	_	Job L	Description:	US 50 FR	OM LY.	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	- Disabas		a:	UV2U 1220	0 . 00			TIC FO	
Samplers:		no, Rigsby		Station	"X2" 1230			•	US 50	
Wimer, McFarr	ren 17			Location fro	LYON	Lt.	-	. R	t. <u>25'</u>	•
Sample No.:	17			County:						D.G.T.
Sample Type:	G 1 -	1 a	ъс П	04 5	Depth (ft)	Вс	oring Description		0	PSI
RV -	Sub □ None ■		DC 🗆	Other -	-		Silt Sand	Gravel	0 2 - -	100
Vegetation:		Grassy \square	Shrubs		2		Siit Suiid	Giuvei	_	
Cut Section	Brusny 🗀	7711 0 1			- 4				4	
	l 🗆	Taken on Should	der I		6 8				6	
Taken Through Oil	l U		uer =						8	
Gravel Depth (in) Remarks:		Oil Depth (in)		_	10				10	
Remarks:					- 12 14				12	
					- 14 16				14	
Submitted By:	ALTAMI	DANO			18				16 18	
Title:		ing Technician	TTT		20				20	
	Sieve Size	% Passing			Liquid Limi	it	20			
	3"				Plastic Inde	X	2	<u>-</u>		
	2"				Specific Gra	avity		<u>-</u>		
	1.5"				Resistance '	Value	69	<u>.</u>		
	1"	100			Cover		Stabilometer		Expansion	Pressure
	3/4"	98			Thick	iness	6.7	<u>.</u>		
	1/2"	69								
	3/8"	61			S	Sand Equi	valent			i
	No. 4	49			1	Natural M	oisture, %			i
	No. 10	40			F	Resistivity				i
	No. 16	35			F	H Factor				i
	No. 40	26			A	AASHTO	Classification	A-1-a		i
	No. 50	22								
	No. 100	16								
	No. 200	12								
_										
Remarks:										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-227-11			_					
E.A.:	73475		Job D	Description:	US 50 FR	ROM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11									
Samplers:	Altamiran	o, Rigsby	_	Station	"X2" 123	30+00		Route	US 50	
Wimer, McFarr			_	Location fro		Lt.		Rt	i. <u>25'</u>	
Sample No.:	17A			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other -	_				0	100
Vegetation:		Trees	Shrubs \square		2				2	
	Brushy \square	•			_ 4		Silt Sand Grav	vel Lt Clay	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	ALTAMII				18				18	
Title:	Engineeri	ng Technician	III		_ 20				20	
	Sieve Size	% Passing	•		Liquid Lin	nit	18	•		
	3"		_		Plastic Ind	lex	1	·		
	2"		_		Specific G	ravity		•		
	1.5"		_		Resistance	Value	29	·		
	1"	100	_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	96	_		Thic	ckness	19.4	·		
	1/2"	87	_							
	3/8"	81	_			Sand Equi	valent			
	No. 4	71	_			Natural M	oisture, %			
	No. 10	62	_			Resistivity	/			
	No. 16	59	_			pH Factor				
	No. 40	49	_			AASHTO	Classification	A-1-b		
	No. 50	43	_							
	No. 100	30	=							
	No. 200	21	_							
Remarks:										
						<u> </u>				-

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-228-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:		10, Rigsby	-	Station	"X2" 124	0+00		='	US 50	
Wimer, McFarr				Location fro		Lt.		R	.t. <u>25'</u>	
Sample No.:	18			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description		<u> </u>	PSI
RV ■	Sub □		DC 🗆	Other \square			au a .	~ 1	0	100
Vegetation:		Trees	Shrubs		2		Silt Sand	Gravel	2	
	Brushy \square	-			4				4	
Cut Section □		1 111 20011011			6				6	
Taken Through Oil	l 🗆	Taken on Shoul	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	<u>-</u>		Liquid Lim	nit	21			
	3"		<u>-</u>		Plastic Inde	ex	1	_		
	2"		<u>-</u>		Specific Gr	avity		_		
	1.5"		<u>-</u>		Resistance	Value	49	_		
	1"	100	_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	95	<u>-</u>		Thic	kness	13.0	_		
	1/2"	72	<u>-</u>							
	3/8"	66	_			Sand Equi	ivalent			
	No. 4	51	_			Natural M	loisture, %			
	No. 10	39	_]	Resistivity	y			
	No. 16	34	_]	pH Factor				
	No. 40	24	_			AASHTO	Classification	A-1-a		
	No. 50	20	_							
	No. 100	15								
	No. 200	11	_							
Remarks:										
_										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-229-11			=					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:		no, Rigsby	-	Station	''X2'' 124			- '	US 50	
Wimer, McFarr			•	Location fro		Lt.		Rt.	25'	
Sample No.:	18A			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	-				0	100
Vegetation:		Trees \square	Shrubs		2				2	
	Brushy	•			- 4		Silt Sand	Gravel	4	
Cut Section □		1111 20011011			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	-		Liquid Lim	nit	24	_		
	3"		<u>-</u>		Plastic Inde	ex	8	_		
	2"		_		Specific Gr	ravity		_		
	1.5"	100	_		Resistance	Value	30	_		
	1"	99	_		Cover		Stabilometer		Expansion F	ressure
	3/4"	99	_		Thic	kness	19.1	_		
	1/2"	97	_							
	3/8"	92	_			Sand Equi	ivalent			
	No. 4	86	_			Natural M	loisture, %			
	No. 10	80	_			Resistivity	y			
	No. 16	77	_			pH Factor				
	No. 40	66	-			AASHTO	Classification	A-2-4(0)		
	No. 50	60	•							
	No. 100	44	•							
	No. 200	30	_							
			-							
Remarks:										

Date Reported:	8/24/11	-								
Lab No.:	S11-03, R	V-230-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-								
Samplers:		no, Rigsby	i	Station	"X2" 125			=	US 50	
Wimer, McFarr			ı	Location fro		Lt.		R	t. <u>25'</u>	
Sample No.:	19			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description		1	PSI
RV ■	Sub \square		DC 🗆	Other	-		0.11. 0 1	C	0	100
Vegetation:		Trees \square	Shrubs		2		Silt Sand	Grave	<u>2</u>	
	Brushy	•			- 4				4	
Cut Section					6				6	
Taken Through Oil		Taken on Shoul	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	ı		Liquid Lim	nit	16	·		
	3"		i		Plastic Inde	ex	NP	ī		
	2"		i		Specific G	ravity		ī		
	1.5"		i		Resistance	Value	73	ī		
	1"	100	i		Cover		Stabilometer		Expansion I	Pressure
	3/4"	95	i		Thic	kness	5.4	ī		
	1/2"	81	i							
	3/8"	68	ı			Sand Equi	ivalent			
	No. 4	48	i			Natural M	loisture, %			
	No. 10	35	i			Resistivity	y			
	No. 16	29	i			pH Factor				
	No. 40	21	ı			AASHTO	Classification	A-1-a		
	No. 50	17								
	No. 100	13								
	No. 200	9								
Remarks:										
Romans.										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-231-11	LID		_ 		20 20 TO 1 X/2	NE (1		
E.A.:	73475		Job Des	scription:	US 50 FK	OMLY	20.39 TO LY 2	25.01		
Date Rec'd	6/13/11	a Diagher	C	4-4:	UV2U 125	0 + 00		D	TIC FO	
Samplers:	Altamiran	io, Kigsby		tation	"X2" 125			•	US 50	
Wimer, McFarr Sample No.:	en 19A			ocation fro County:	LYON	Lt.		. К	t. <u>25'</u>	
	13A			ounty.						DGI
Sample Type: RV ■	Sub □	Chem □	DC 🗆	Other \square	Depth (ft) 0	В	oring Description		0	PSI 100
Vegetation:			ıbs \square	Other =	2				2	100
vegetation.		Grassy	ios 🗀		4		Silt Sand	Graval	4	
Cut Section		Fill Section			- 4 6		Siit Saiid	Giavei	6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	_		10				10	
Remarks:		On Depth (iii)			12				12	
Remarks.					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:		ng Technician III			20				20	
	Sieve Size	% Passing			Liquid Lim	it	22			
	3"	8			Plastic Inde		2	•		
	2"				Specific Gr			•		
	1.5"	100			Resistance	-	69	•		
	1"	99			Cover		Stabilometer	•	Expansion I	Pressure
	3/4"	97			Thicl	kness	6.7		•	
	1/2"	79						•		
	3/8"	67			9	Sand Equi	valent			
	No. 4	50			1	Natural M	oisture, %			
	No. 10	38]	Resistivity	7			
	No. 16	34			1	pH Factor				
	No. 40	26			1	AASHTO	Classification	A-2-6(0))	
	No. 50	23								
	No. 100	17								
	No. 200	13								
Remarks:										

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-232-11					20 20 TO 1 X	35 (1		
E.A.:	73475	-	JOB L	Description:	US 50 FK	ONLY	20.39 TO LY	25.01		
Date Rec'd	6/13/11	- - Disaba		Ct. ti	UV2U 126	0 - 00		D. 4	TIC FO	
Samplers:		no, Rigsby	-	Station	"X2" 126			-	US 50	
Wimer, McFarr	20		-	Location fro	LYON	Lt.		R	t. <u>25'</u>	•
Sample No.:	20			County:						
Sample Type:	G 1 F	1 a D	ъс П	04 5	Depth (ft)	Вс	oring Description		0	PSI
RV -	Sub -		DC 🗆	Other -	_		Silt Sand	Gravel	0 2	100
Vegetation:	None ■	Trees Crassy	Shrubs		2			CHUVOI	_	
Cut Section	Brusny 🗀	Grassy □ Fill Section	_		- 4				4	
			don =		6				6	
Taken Through Oil	I 🗆	Taken on Shoul	der =		8				8	
Gravel Depth (in) Remarks:		Oil Depth (in)		-	10				10	
Remarks:					12				12	
					_ 14				14	
Culturalities of Days	ALTAMI	DANO			<u> </u>				16 18	
Submitted By: Title:		ing Technician	TIT		- 18 20				20	
Title.	<u> </u>				_ 20 1				20	
	Sieve Size	% Passing	<u>.</u>		Liquid Lim	it	22	_		
	3"		_		Plastic Inde	ex	NP	_		
	2"		_		Specific Gr	avity		_		
	1.5"		_		Resistance	Value	76	_		
	1"	100	_		Cover		Stabilometer		Expansion	Pressure
	3/4"	94	_		Thick	kness	4.5	_		
	1/2"	73	_							
	3/8"	64	_		9	Sand Equi	valent			ı
	No. 4	47	_]	Natural M	oisture, %			ı
	No. 10	36	_]	Resistivity	7			ı
	No. 16	31	_		1	pH Factor				,
	No. 40	22			1	AASHTO	Classification	A-1-a		
	No. 50	18								
	No. 100	13	_							
	No. 200	10								
Remarks:										

Lab No.: SI1-03, RV-233-11	Date Reported:	8/24/11	-								
Date Rec'd Samplers: Altamirano, Rigsby Station Text			V-233-11								
Station "X2" 1260+00 Route US 50 Winter, McFarry Location from CL (ft) Lt Route US 50 Sample Nos: 200. Depth (b) Route US 50 ISI Sample Type: Sub Chem DC Other Oo-			-	Job D	Description:	US 50 FR	ROM LY	20.39 TO LY	25.61		
Nomer, McFarrer Location from CL (ft) Lt Rt 25'			.								
Sample No.: 20A County: LYON Somple Type: Depth (in	=		10, Rigsby						- '		
Sample Type: Sub	·			•			Lt.	_	_ Rt.	. 25'	
No		20A			County:						
Vegetation: None Trees Shrubs		_	_	_	_		В	oring Description			
Brushy Grassy G					Other \Box	-					100
Cut Section □ Fill Section ■ 6- 6- 6- 7- 6- 7- 7- 7- 8- 8- 8- 6- 10- 12- 12- 12- 12- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14- 16- 16- 16- 16- 16- 16- 18- <	Vegetation:			Shrubs \square						- 1	
Taken Through Oil □ Taken on Shoulder 8- 8- Gravel Depth (in) 10- 10- Remarks: 12- 12- 14- 14- 14- Submitted By: ALTAMIRANO 18- 18- Title: Engineering Technician III 20- 20- Sieve Size % Passing Liquid Limit 26 20- 1.5° 100 Resistance Value 39 20- Expansion Pressure 1.5° 100 Resistance Value 39 Expansion Pressure 3/4" 96 Thickness 16.2 Expansion Pressure 1/2" 82 Sand Equivalent Sand Equivalent No. 10.2 Assistance Value 39 Assistance Value		Brushy □	·			-		Silt Sand	Gravel		
Gravel Depth (in)		. =									
Remarks:	=	l U		der =							
14-	_		Oil Depth (in)		=						
16- 18- 18- 18- 18- 20- 20-	Remarks:					-					
Siewe Size % Passing Liquid Limit 26						-					
Sieve Size % Passing Liquid Limit 26 Plastic Index 8 Specific Gravity	G 1 1 1 1 D	A T (T) A B (T)	DANO.			-					
Sieve Size % Passing Liquid Limit 26 3" Plastic Index 8 2" Specific Gravity 1.5" 100 Resistance Value 39 1" 99 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 16.2 1/2" 82 Sand Equivalent No. 4 58 Natural Moisture, % No. 10 48 Resistivity No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18 No. 200 18	•			***		-					
Plastic Index Specific Gravity	Title:	Engineeri	ng Technician	111		_ 20				20	
Plastic Index Specific Gravity											
2" Specific Gravity 1.5" 100 1" 99 3/4" 96 1/2" 82 3/8" 71 No. 4 58 No. 10 48 No. 16 43 No. 40 35 No. 50 31 No. 100 24 No. 200 18 Specific Gravity Resistance Value 39 Cover Stabilometer Expansion Pressure Expansion Pressure Ansaction Expansion Pressure Ansaction Ansacti		Sieve Size	% Passing			Liquid Lim	nit	26	_		
1.5" 100 Resistance Value 39 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 16.2		3"				Plastic Inde	ex	8	_		
1" 99 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 16.2 1/2" 82 3/8" 71 Sand Equivalent No. 4 58 Natural Moisture, % Resistivity PH Factor No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18		2"				Specific G	ravity		_		
3/4" 96 1/2" 82 3/8" 71 No. 4 58 No. 10 48 No. 16 43 No. 40 35 No. 50 31 No. 100 24 No. 200 18 Thickness Sand Equivalent Natural Moisture, % Resistivity pH Factor AASHTO Classification A-2-4(0)		1.5"	100			Resistance	Value	39	_		
1/2" 82 3/8" 71 No. 4 58 No. 10 48 No. 16 43 No. 40 35 No. 50 31 No. 100 24 No. 200 18		1"	99			Cover		Stabilometer		Expansion F	ressure
3/8" 71 Sand Equivalent No. 4 58 Natural Moisture, % No. 10 48 Resistivity No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18		3/4"	96			Thic	kness	16.2	_		
No. 4 58 Natural Moisture, % No. 10 48 Resistivity No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18		1/2"	82								
No. 10 48 Resistivity No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18		3/8"	71				Sand Equ	ivalent			
No. 16 43 pH Factor No. 40 35 AASHTO Classification A-2-4(0) No. 50 31 No. 100 24 No. 200 18		No. 4	58				Natural M	loisture, %			
No. 40 35 No. 50 31 No. 100 24 No. 200 18		No. 10	48				Resistivity	y			
No. 50 31 No. 100 24 No. 200 18		No. 16	43				pH Factor	•			
No. 100 24 No. 200 18		No. 40	35				AASHTO	Classification	A-2-4(0)		
No. 200 18		No. 50	31	-							
		No. 100	24	_							
Remarks:		No. 200	18	_							
Remarks:											
Remarks:											
	Remarks:										
	_										

Date Reported:	8/24/11	<u>.</u>								
Lab No.:	S11-03, R	V-234-11			=					
E.A.:	73475	-	Job D	Description:	<u>US 50 FR</u>	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamirar	o, Rigsby	_	Station	"X2" 127			='	US 50	
Wimer, MCFar			_	Location fro		Lt.		R	t. <u>25'</u>	
Sample No.:	21			County:	LYON					
Sample Type:		_	_		Depth (ft)	Во	oring Description		-	PSI
RV ■	Sub 🗆		DC 🗆	Other \square			G'1, G 1	C 1	0	100
Vegetation:		Trees \square	Shrubs \square		2		Silt Sand	Gravel	2	
	Brushy	•			4				4	
Cut Section					6				6	
Taken Through Oil		Taken on Shou	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:	6" Tall chea	at grass			12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	-		Liquid Lim	it	23	-		
	3"		_		Plastic Inde	ex	2	<u>.</u>		
	2"		_		Specific Gr	avity		<u>-</u>		
	1.5"		_		Resistance	Value	62	<u>-</u>		
	1"	100	_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	93	_		Thick	kness	8.9	_		
	1/2"	75	_							
	3/8"	64	_		\$	Sand Equi	valent			
	No. 4	46	_]	Natural M	oisture, %			
	No. 10	36	_]	Resistivity	•			
	No. 16	31	_		1	pH Factor				
	No. 40	22			1	AASHTO	Classification	A-1-a		
	No. 50	19								
	No. 100	13								
	No. 200	10	_							
			_							
Remarks:										

Date Reported:	8/24/11	•					
Lab No.:	S11-03, R					.	
E.A.:	73475	•	Job Description:	US 50 FROM L	Y 20.39 TO LY 2	5.61	
Date Rec'd	6/13/11		~ .	WY211 4250 00		- TIG F0	
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1270+00		Route US 50	
Wimer, McFarr			Location fro			Rt. 25'	_
Sample No.:	21A		County:	LYON			
Sample Type:	_	_	_	Depth (ft)	Boring Description		PSI
RV ■	Sub 🗆		Other C	_		0	100
Vegetation:		Trees		2		2	1
		Grassy		_ 4	Silt Sand (Gravel 4	-
Cut Section		Fill Section		6		6	
Taken Through Oil		Tunen on Shoulder		8		8	-
Gravel Depth (in)	(Oil Depth (in)		10		10	
Remarks:	6" Tall chea	nt grass		12		12	
				14		14	-
				16		16	-
Submitted By:	ALTAMI	RANO		18		18	
Title:	Engineeri	ng Technician III		20		20	
	Sieve Size	% Passing		Liquid Limit	25		
	3"			Plastic Index	3		
	2"			Specific Gravity			
	1.5"	100		Resistance Value	75		
	1"	91		Cover	Stabilometer	Expansion	Pressure
	3/4"	87		Thickness	4.8		
	1/2"	77					
	3/8"	66		Sand Ed	quivalent		
	No. 4	52		Natural	Moisture, %		_
	No. 10	40		Resistiv	rity -		_
	No. 16	36		pH Fact	or		_
	No. 40	28		•	O Classification	A-1-a	_
	No. 50	25			-		_
	No. 100	19					
	No. 200	14					
Remarks:							
-							

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-236-11								
E.A.:	73475	V-230-11	Ioh Γ	Description:	_ _ US 50 FR <i>(</i>	OM LY 2	20.39 TO LY 2	25 61		
Date Rec'd	6/13/11	-	300 L	escription.	CD 30 TRO	<u> </u>	10.57 TO LT 2	25.01		
Samplers:	Altamira	10. Rigshy		Station	"X2" 1280	+00		Route	e US 50	
Wimer, McFarr		io, rugsby		Location fro		Lt.		•	t. 25'	
Sample No.:	22			County:	LYON	2				
Sample Type:				•	Depth (ft)	Во	ring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \Box			•		0	100
Vegetation:	None	Trees □ Sh	rubs 🗆		2		Silt Sand	Gravel	2	
_	Brushy \square	Grassy			4				4	
Cut Section	-	Fill Section			6				6	
Taken Through Oil		Taken on Shoulder	•		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:				_	12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician II	I		20				20	
	Sieve Size	% Passing			Liquid Limi	t	23			
	3"				Plastic Index	X	2			
	2"				Specific Gra	vity				
	1.5"				Resistance V	Value	41			
	1"	100			Cover		Stabilometer		Expansion 1	Pressure
	3/4"	96			Thick	ness	15.6			
	1/2"	77								
	3/8"	69			S	and Equiv	alent			
	No. 4	53			N	Vatural Mo	oisture, %			
	No. 10	41			R	Resistivity				
	No. 16	37			p	H Factor				
	No. 40	26			A	ASHTO	Classification	A-1-a		
	No. 50	22								
	No. 100	16								
	No. 200	12								
Remarks:										
								_	_	

Date Reported:	8/24/11	V AAF 11							
Lab No.:	S11-03, R	V-245-11	LID			10 20 TO 1 W 1)		
E.A.:	73475		Job Description	: <u>US 50 FR</u>	OMLY	20.39 TO LY 2	25.01		
Date Rec'd	6/13/11	a Diasku	G	UV2U 1200	0 . 00		D	TIC FO	
Samplers:	Altamiran	io, Rigsby	Station	"X2" 1280			,	US 50	
Wimer, McFarr Sample No.:	22A		Location County:	from CL (ft) LYON	Lt.		K	t. <u>25'</u>	
	22A		County.		D.	· B · · ·			DGI
Sample Type: RV ■	Sub □	Chem □ I	DC □ Other	Depth (ft) 0	Во	ring Description		0	PSI 100
Vegetation:			os \square	2				2	100
vegetation.		Grassy □	os 🗀	4		Silt Sand	Graval	4	
Cut Section		Fill Section		6		Siit Sand	Graver	6	
Taken Through Oil		Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)	_	10				10	
Remarks:		On Depth (III)		12				12	
Remarks.				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:		ng Technician III		20				20	
	3" 2"	% Passing		Liquid Limi Plastic Inde Specific Gra	x avity	NP 72			
	1.5"	100		Resistance \	Value	73			
	1"	91		Cover		Stabilometer		Expansion I	Pressure
	3/4"	88		Thick	kness	5.4			
	1/2"	74				_			
	3/8"	65			Sand Equiv	•			
	No. 4	49			Natural Mo	•			
	No. 10	38			Resistivity				
	No. 16	33 25		-	H Factor	Classification	A-1-a		
	No. 40	22		F	ААЗПІО	Ciassification	A-1-a		
	No. 100	16							
	No. 200	12							
	110. 200	12							
Remarks:									
			-						

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-246-11								
E.A.:	73475		Job D	escription:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-		1					,	
Samplers:		- no, Rigsby		Station	"X2" 1290	0+00		Route	e US 50	
Wimer, McFarr		, <u>G</u>	•	Location fro	om CL (ft)	Lt.		•	t. 25'	
Sample No.:	23		ı	County:	LYON			•		
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other	0				0	100
Vegetation:	None	Trees	Shrubs		2		Silt Sand	Gravel	2	•
	Brushy \square	Grassy			4				4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shoule	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	III		20				20	
	a. a.	l					21			
	Sieve Size	% Passing	ı		Liquid Limi		21			
	3"				Plastic Inde		2			
	2"				Specific Gra	-				
	1.5"	400	·		Resistance \	Value	51	=		_
	1"	100	·		Cover		Stabilometer		Expansion 1	Pressure
	3/4"	91	i		Thick	iness	12.4	=		
	1/2"	81	i							
	3/8"	69	•			Sand Equi				
	No. 4	49	•				oisture, %			
	No. 10	36	i			Resistivity				
	No. 16	31	i		-	H Factor	~			
	No. 40	22	i		A	AASHTO	Classification	A-1-a		
	No. 50	19	•							
	No. 100	14	•							
	No. 200	10								
D 1										
Remarks:										
_										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-247-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	_								
Samplers:		no, Rigsby	-	Station	"X2" 129	0+00		- '	<u>US 50</u>	
Wimer, McFarr			-	Location fro		Lt.		Rt	. 25'	
Sample No.:	23A			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description		1	PSI
RV ■	Sub □		DC 🗆	Other	-				0	100
Vegetation:		Trees	Shrubs		2				2	
	Brushy \square	•			4		Silt Sand Gra	vel Lt Clay	4	
Cut Section		1 111 00011011			6				6	
Taken Through Oil		Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	III		20				20	
	Sieve Size	% Passing	_		Liquid Lim	nit	29	_		
	3"				Plastic Inde	ex	10	_		
	2"		-		Specific G	ravity		_		
	1.5"		-		Resistance	Value	46	_		
	1"	100	<u>-</u>		Cover		Stabilometer	_	Expansion I	Pressure
	3/4"	97	-		Thic	kness	14.0			
	1/2"	91	-					_		
	3/8"	87	-			Sand Equi	ivalent			
	No. 4	76	-			Natural M	loisture, %			
	No. 10	68	-			Resistivity	y			
	No. 16	64	-			pH Factor				
	No. 40	55	-			AASHTO	Classification	A-2-4(0)		
	No. 50	50	-							
	No. 100	40	-							
	No. 200	31	-							
		-	_							
Remarks:										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-248-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:		no, Rigsby	-	Station	"X2" 130	0+00		=	US 50	
Wimer, McFarr				Location fro		Lt.		R	at. <u>25'</u>	
Sample No.:	24			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description		<u> </u>	PSI
RV ■	Sub □		DC 🗆	Other \square	-		au a .	~ .	0	100
Vegetation:		Trees	Shrubs		2		Silt Sand	Gravel	2	
	Brushy \square	•			4				4	
Cut Section		1 111 00011011			6				6	
Taken Through Oil	l 🗆	Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	III		20				20	
	Sieve Size	% Passing			Liquid Lim	nit	20			
	3"		•		Plastic Inde		NP	•		
	2"		-		Specific Gr			1		
	1.5"	100	-		Resistance	-	82	1		
	1"	94	-		Cover		Stabilometer	1	Expansion I	Pressure
	3/4"	90	-			kness	2.5		F	
	1/2"	79	-					1		
	3/8"	69	-			Sand Equi	ivalent			
	No. 4	52	-			_	loisture, %			
	No. 10	39	-			Resistivity				
	No. 16	34	-			pH Factor				
	No. 40	23	-			-	Classification	A-1-a		
	No. 50	19	-			111151110	Classification			
	No. 100	13	-							
	No. 200	10	-							
	110. 200	10	-							
Remarks:										
_										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-249-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:		10, Rigsby	-	Station	"X2" 130	0+00			US 50	
Wimer, McFarr				Location fro		Lt.		Rt.	25'	
Sample No.:	24A			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description		1	PSI
RV ■	Sub □		DC 🗆	Other	-				0	100
Vegetation:		Trees	Shrubs		2				2	
	Brushy \square	•			4		Silt Sand Vry Lt	Gvl Lt Clay	4	
Cut Section □		1111 20011011			6				6	
Taken Through Oil	l 🗆	Taken on Shoul	der =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing	•		Liquid Lim	nit	29			
	3"		<u>-</u>		Plastic Inde	ex	6	i		
	2"		_		Specific Gr	ravity		ı		
	1.5"		<u>-</u>		Resistance	Value	64	i		
	1"	100	_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	96	_		Thic	kness	8.3	ı		
	1/2"	91	_							
	3/8"	89	_			Sand Equi	ivalent			
	No. 4	83	_			Natural M	loisture, %			
	No. 10	76	_			Resistivity	У			
	No. 16	71	_			pH Factor				
	No. 40	59	•			AASHTO	Classification	A-4(0)		
	No. 50	54	_							
	No. 100	45	_							
	No. 200	36	<u>-</u>							
D										
Remarks:										

Date Reported:	8/24/11	<u>.</u>								
Lab No.:	S11-03, R	V-250-11			=					
E.A.:	73475	-	Job D	Description:	<u>US 50 FR</u>	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamirar	no, McFarren		Station	"X2" 131			='	US 50	
Wimer				Location fro		Lt.	-	R	t. <u>25'</u>	
Sample No.:	25			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	Во	oring Description		Т	PSI
RV ■	Sub 🗆		DC 🗆	Other \square	-		G'1, G 1	C 1	0	100
Vegetation:			Shrubs \square		2		Silt Sand	Gravel	2	
	Brushy	•			- 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Should	er		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician l	Ш		20				20	
		ı								
	Sieve Size	% Passing			Liquid Lim		23			
	3"				Plastic Inde		2			
	2"				Specific Gr	-				
	1.5"				Resistance	Value	82			
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	91			Thick	kness	2.5			
	1/2"	74								
	3/8"	66				Sand Equi				
	No. 4	51				Natural M				
	No. 10	39]	Resistivity	7			
	No. 16	35			-	pH Factor				
	No. 40	25			1	AASHTO	Classification	A-1-a		
	No. 50	21								
	No. 100	16								
	No. 200	12								
Remarks:										
	-									

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-251-11			_					
E.A.:	73475	-	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	5.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamira	no, McFarren		Station	"X2" 131				US 50	
Wimer				Location fro		Lt.	·	Rt	t. <u>25'</u>	
Sample No.:	25A			County:	LYON					
Sample Type:	_	_			Depth (ft)	В	oring Description			PSI
RV ■	Sub 🗆		DC 🗆	Other \square	-				0	100
Vegetation:			Shrubs		2				2	
	Brushy				- 4		Silt Sa	ınd	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Should	ler		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					<u> </u>				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician	Ш		20				20	
	Sieve Size	% Passing			Liquid Lim	nit	13			
	3"				Plastic Inde	ex	NP			
	2"				Specific G	ravity				
	1.5"				Resistance	Value	69			
	1"				Cover		Stabilometer		Expansion F	Pressure
	3/4"	100			Thic	kness	6.4			
	1/2"	99								
	3/8"	99				Sand Equ	ivalent			
	No. 4	94				Natural M	loisture, %			
	No. 10	85				Resistivit	y .			
	No. 16	79				pH Factor	:			
	No. 40	65				AASHTC	O Classification	A-4(0)		
	No. 50	60								
	No. 100	50								
	No. 200	41								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-252-11						
E.A.:	73475		Job Description:	US 50 FROM L	Y 20.39 TO LY 2	5.61		
Date Rec'd	6/13/11	-	_					
Samplers:	Altamira	o, MCFarren	Station	"X2" 1320+00		Route US	50	
Wimer			Location fro	om CL (ft)	Lt.	Rt.	25'	
Sample No.:	26		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub □	l Chem □ Do	C □ Other □	0			0	100
Vegetation:	None	Trees □ Shrubs		2	Silt Sand O	Gravel	2	
	Brushy \square	Grassy		4			4	
Cut Section □		Fill Section		6			6	
Taken Through Oi	1 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:				12			12	
				14			14	
				16			16	
Submitted By:	ALTAMI	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	3" 2" 1.5" 1" 3/4"	% Passing 100 97		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	NP 81 Stabilometer 2.9	Ехра	ansion Pr	essure
	1/2"	81						
	3/8"	68		Sand Ed	quivalent			
	No. 4	51		Natural	Moisture, %			
	No. 10	39		Resistiv	rity			
	No. 16	34		pH Fact	cor			
	No. 40	24		AASHT	O Classification	A-1-a		
	No. 50	20			-			
	No. 100	15						
	No. 200	12						
Remarks:								

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-253-11				01444	40 40 TO T T			
E.A.:	73475	-	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-							**************************************	
Samplers:	Altamira	no, McFarren		Station	"X2" 1320				<u>US 50</u>	
Wimer				Location fro		Lt.		Rı	i. <u>25'</u>	-
Sample No.:	26A			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other -	0				0	100
Vegetation:			Shrubs \square		2				2	
	Brushy \square	Grassy			4		Silt Sand Vry	Lt Gravel	4	
Cut Section □		Fill Section	1		6				6	
Taken Through Oil	1 🗆	Taken on Should	ler =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	Ш		20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50	100 97 92 86 77 72 60 55]]	ex avity Value Kness Sand Equi Natural M Resistivity pH Factor	oisture, %	A-4(0)	Expansion	Pressure
Remarks:	No. 100 No. 200	37								

Date Reported: Lab No.:	8/24/11 S11-03, R	V-275-11			_					
E.A.:	73475	_	Job De	escription:	US 50 FRO	OM LY 2	20.39 TO LY	25.61		
Date Rec'd	6/13/11	<u>.</u>								
Samplers:	Altamirar	o, McFarren		Station	"X2" 1330	+00		Route	US 50	
Wimer				Location fro	m CL (ft)	Lt.		R	t. 25'	
Sample No.:	27			County:	LYON					
Sample Type:					Depth (ft)	Box	ring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \square	0				0	100
Vegetation:	None	Trees □ Shr	ubs 🗆		2		Silt Sand	Gravel	2	
	Brushy \square	Grassy			_ 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					_ 14				14	
					_ 16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	a. a.	l					20			
	Sieve Size	% Passing			Liquid Limit		28	-		
	3"				Plastic Index		8	-		
	2"				Specific Gra	-		-		
	1.5"	100			Resistance V		75	-		_
	1"	100			Cover		Stabilometer		Expansion 1	Pressure
	3/4"	96			Thick	ness	4.8	-		
	1/2"	78			_					
	3/8"	70				and Equiv				
	No. 4	53				Vatural Mo	oisture, %			
	No. 10	40				Resistivity				
	No. 16	35			-	H Factor			<u> </u>	
	No. 40	26			Α	ASHTO	Classification	A-2-4(0))	
	No. 50	22								
	No. 100	16								
	No. 200	12								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-276-11					
E.A.:	73475		Job Description:	US 50 FROM	M LY 20.39 TO LY	25.61	
Date Rec'd	6/13/11	-	•				
Samplers:	Altamira	no, McFarren	Station	"X2" 1330+	00	Route US 50	
Wimer			Location fro	om CL (ft)	Lt.	Rt. 25'	
Sample No.:	27A		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □ I	OC Other	0		0	100
Vegetation:	None	Trees Shrub	os 🗆	2		2	
	Brushy \square	Grassy		_ 4	silt sand vry lt	t grvl lt clay 4	
Cut Section		Fill Section		6		6	
Taken Through Oil	1 🗆	Taken on Shoulder		8		8	
Gravel Depth (in)		Oil Depth (in)		10		10	
Remarks:				_ 12		12	.=-
				_ 14		14	
				16		16	
Submitted By:	ALTAMI			_ 18		18	
Title:	Engineeri	ng Technician III		_ 20		20	
	Sieve Size	% Passing		Liquid Limit	34		
	3"	% rassing		Plastic Index	11	-	
	2"				-	-	
	1.5"			Specific Gravi Resistance Va		-	
	1.3	100		Cover	Stabilometer	- Evnancie	n Pressure
	3/4"	97		Thickne		Expansio	ii r iessuie
	1/2"	85		THICKIE		_	
	3/8"	83		San	nd Equivalent		
	No. 4	74			tural Moisture, %		_
	No. 10	67			sistivity		_
	No. 16	63			Factor		_
	No. 40	55		-	SHTO Classification	A-2-6(0)	_
	No. 50	50		111	ioni o Ciassinication	11 2 0(0)	_
	No. 100	38					
	No. 200	30					
	1101200						
Remarks:							
_						_	
_						_	

8/24/11 S11-03, RV	V-277-11						
73475		Job Description:	US 50 FROM LY	Y 20.39 TO LY 2	5.61		
6/13/11							
Altamiran	o, McFarren	Station	"X2" 1340+00		Route	US 50	
		Location fro	om CL (ft)	.t	Rt.	25'	
28		County:	LYON				
			Depth (ft)	Boring Description		•	PSI
Sub □	Chem □ □	OC Other	<u> </u>			0	100
None	Trees □ Shrub	s 🗆	2	Silt Sand O	Gravel	2	
Brushy \square	Grassy □					4	
	Fill Section		6			6	
l 🗆	Taken on Shoulder		8			8	
	Oil Depth (in)		10			10	
			12			12	
			14			14	
			16			16	
ALTAMII	RANO		18			18	
Engineerin	ng Technician III		20			20	
Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 50	100 79 67 50 37 31 23 20		Natural Resistivi pH Facto	Moisture, % ity or	A-1-a	Expansion I	Pressure
No. 100 No. 200	14 11						
	S11-03, RV 73475 6/13/11 Altamiran 28 Sub None Brushy ALTAMII Engineerin Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100	S11-03, RV-277-11 73475 6/13/11 Altamirano, McFarren 28	Sil-03, RV-277-11 73475	Sil-03, RV-277-11 73475	Sil-03, RV-277-11 T3475	Site Size % Passing Siz	Site Site

Date Reported: Lab No.:	8/24/11 S11-03, R	- V 270 11								
E.A.:	73475	V-2/0-11	Job Descri	intion	_ 	OMIV	20.39 TO LY	25 61		
Date Rec'd	6/13/11	-	Job Desch	iption.	US 30 FR	OWLLI	20.39 TO LT 2	23.01		
Samplers:		10, McFarren	Stat	ion	"X2" 134			Route	US 50	
Wimer	Aitaiiii ai	io, merarren			m CL (ft)	Lt.		Rt		
Sample No.:	28A			inty:	LYON	Lt.		_	. <u>25</u>	
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \square			8		0	100
Vegetation:			bs 🗆		2				2	
	Brushy	Grassy			4		Silt Sand Gra	vel Lt Clay	4	
Cut Section	•	Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	Sieve Size	% Passing			Liquid Lim	nit	30	_		
	3"				Plastic Inde	ex	12	_		
	2"				Specific G	ravity		_		
	1.5"				Resistance	Value	52	_		
	1"				Cover		Stabilometer		Expansion l	Pressure
	3/4"	100			Thic	kness	12.1	_		
	1/2"	92								
	3/8"	86				Sand Equi	ivalent			
	No. 4	73				Natural M	loisture, %			
	No. 10	63				Resistivity	У			
	No. 16	59				pH Factor				
	No. 40	50				AASHTO	Classification	A-2-6(0)		
	No. 50	45								
	No. 100	33								
	No. 200	25								
D 1										
Remarks:										

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-279-11			-					
E.A.:	73475	-	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	-								
Samplers:	Altamira	no, McFarren		Station	"X2" 135			='	US 50	
Wimer				Location fro		Lt.		R	tt. <u>30'</u>	
Sample No.:	29			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	Во	oring Description		-	PSI
RV ■	Sub 🗆		DC 🗆	Other \square	-		G'1, G 1	C 1	0	100
Vegetation:			Shrubs		2		Silt Sand	Gravel	2	
	Brushy	-			- 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Should	ler =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing			Liquid Lim	it	28	<u>-</u>		
	3"				Plastic Inde	ex	5	<u>-</u>		
	2"				Specific Gr	avity		<u>-</u>		
	1.5"				Resistance	Value	81	<u>-</u>		
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	98			Thick	kness	2.9	<u>-</u>		
	1/2"	82								
	3/8"	72			:	Sand Equi	valent			
	No. 4	57]	Natural M	oisture, %			
	No. 10	44]	Resistivity	•			
	No. 16	38			1	pH Factor				
	No. 40	28				AASHTO	Classification	A-1-a		
	No. 50	24								
	No. 100	17								
	No. 200	12								
Remarks:										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-280-11								
E.A.:	73475		Job Do	escription:	<u>US 50 FR</u>	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11									
Samplers:	Altamiran	o, McFarren		Station	"X2" 1350				US 50	
Wimer	20.4			Location fro		Lt.	_	R	t. <u>30'</u>	
Sample No.:	29A			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description		I	PSI
RV ■	Sub □		DC 🗆	Other -					0	300
Vegetation:			nrubs 🗆		2 -				2	100
	Brushy	· ·			_ 4		Silt Sand	Gravel	4	
Cut Section		Fill Section	_		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder	r \blacksquare		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	From 2½ to	3½ 300 PSI was ap	plied due c	obble	_ 12				12	
					_ 14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician II	I		20				20	
	Sieve Size	% Passing			Liquid Limi	it	30	_		
	3"				Plastic Inde	X	12	_		
	2"				Specific Gra	avity		_		
	1.5"				Resistance '	Value	65	_		
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	cness	8.0			
	1/2"	93								
	3/8"	85			S	Sand Equi	ivalent			
	No. 4	74			1	Natural M	loisture, %			
	No. 10	62			I	Resistivity	y			
	No. 16	57			F	H Factor	•			
	No. 40	48			A	AASHTO	Classification	A-2-6(0))	
	No. 50	44								
	No. 100	34								
	No. 200	27								
Remarks:										
	_								-	
									-	

Date Reported: Lab No.:	8/24/11 S11-03, R	- XV-281-11					
E.A.:	73475	_	Job Description:	US 50 FROM I	LY 20.39 TO LY 2	25.61	
Date Rec'd	6/15/11	_					
Samplers:	Altamira	no, McFarren	Station	"X2" 1355+70		Route US 50	
Wimer				rom CL (ft)	Lt	Rt. 160'	i
Sample No.:	30		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □		OC Other	0	Oil		100
Vegetation:	None		os 🗆	2	Silt Sa	nd 2	
	Brushy	Grassy 🗆		4	Grave	el 4	
Cut Section □		Fill Section		6		6	
Taken Through Oil	1	Taken on Shoulder		8		8	
Gravel Depth (in)	0	Oil Depth (in)	5	10		10	
Remarks:				12		12	
				14		14	
				16		16	
Submitted By:	ALTAMI	RANO		18		18	
Title:	Engineer	ing Technician III		20		20	
	Sieve Size	% Passing		Liquid Limit	19		
	3"			Plastic Index	3		
	2"			Specific Gravity			
	1.5"	100		Resistance Value	81		
	1"	95		Cover	Stabilometer	Expansion	Pressure
	3/4"	92		Thickness	2.1	-	
	1/2"	87					
	3/8"	86		Sand I	Equivalent		
	No. 4	76		Natura	al Moisture, %		
	No. 10	67		Resist	ivity		
	No. 16	62		pH Fa	ctor		
	No. 40	51		-	•	A-2-4(0)	•
	No. 50	42			•		•
	No. 100	25					
	No. 200	17					
Remarks:	-						
				· 			

Date Reported: Lab No.:	8/24/11 S11-03, R	V-282-11		_			
E.A.:	73475		Job Description:	US 50 FROM L	Y 20.39 TO LY 2	5.61	
Date Rec'd	6/13/11						
Samplers:	Altamiran	o, McFarren	Station	"X2" 1360+00		Route US 50	1
Wimer			Location fr	rom CL (ft)	Lt	Rt. 30'	
Sample No.:	31		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □ D	C □ Other □	<u>□</u> 0			0 100
Vegetation:	None	Trees Shrub	s 🗆	2	Silt Sand	<u>Gravel</u>	2
	Brushy \square	Grassy		4			4
Cut Section		Fill Section		6			6
Taken Through Oil	l 🗆	Taken on Shoulder		8			8
Gravel Depth (in)		Oil Depth (in)		10		1	10
Remarks:				12		1	12
				14		1	14
				16		1	16
Submitted By:	ALTAMI	RANO		18		1	18
Title:	Engineeri	ng Technician III		20		2	20
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 87		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	24 6 73 Stabilometer 5.4	Expansi 	ion Pressure
	3/8"	79		Sand E	quivalent		
	No. 4	64			Moisture, %		
	No. 10	50		Resistiv	•		
	No. 16	44		pH Fact	•		
	No. 40	34		•	ΓΟ Classification	A-1-b	
	No. 50	29		71115111	Classification	71-1-0	
	No. 100	21					
	No. 200	15					
Remarks:							

EA. 73475 Job Description: US 50 FROM LY 20.39 TO LY 25.61 Job Description: Country Country	Date Reported: Lab No.:	8/24/11 S11-03, R	V-283-11					
Samplers: Altamirano, McFarren Station "X2" 1360+00 Route US 50 Minute US 50	E.A.:			Job Description:	US 50 FROM	LY 20.39 TO LY 2	25.61	
Mimer Location From CL (ft)	Date Rec'd	6/13/11	•					
Sample No: 31A	Samplers:	Altamiran	no, McFarren	Station	"X2" 1360+00)	Route US 50	
Sample Type:	Wimer			Location fro	om CL (ft)	Lt	Rt. 30'	-
No	Sample No.:	31A		County:	LYON			
Vegetation: None Trees Shrubs	Sample Type:				Depth (ft)	Boring Description		PSI
Brushy Grassy G	RV ■	Sub □	Chem □ DO	C □ Other □	0		0	100
Cut Section Fill Section 6- 6- Taken Through Oil Taken on Shoulder 8- 8- Gravel Depth (in) 0il Depth (in) 10- 10- Remarks: 12- 14- 14- 16- 16- 16- 16- Submitted By: ALTAMIRANO 18- 18- Title: Engineering Technician III 20- 20- Sieve Size % Passing Liquid Limit 24 1.5° Resistance Value 28 1.5° Resistance Value 28 1'' Cover Stabilometer Expansion Pressure 3/4° 100 Thickness 19.7 1/2° 98 Sand Equivalent Expansion Pressure No. 4 88 Natural Moisture, % Resistivity No. 10 81 Resistivity AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33	Vegetation:	None	Trees □ Shrubs		2		2	
Taken Through Oil □ Taken on Shoulder ■ 8- 8-		Brushy \square	Grassy		_ 4	Silt Sand	Gravel 4	
Gravel Depth (in)	Cut Section		Fill Section		6		6	
Remarks:	Taken Through Oil	1 🗆	Taken on Shoulder		8		8	
14 16 16 16 16 18	Gravel Depth (in)		Oil Depth (in)		10		10	
Sieve Size % Passing Liquid Limit 24 24 25 26 26 26 27 27 27 27 28 28 28 28	Remarks:				12		12	
Submitted By: Engineering Technician III 18 20 20 20					14		14	
Sieve Size % Passing Liquid Limit 24					16		16	
Sieve Size % Passing	Submitted By:	ALTAMI	RANO		18		18	
Plastic Index 10 Specific Gravity Resistance Value 28 Cover Stabilometer Expansion Pressure 3/4" 100 Thickness 19.7 Expansion Pressure 1/2" 98 Sand Equivalent No. 4 88 Natural Moisture, % No. 10 81 Resistivity PH Factor AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33 No. 200 33 No. 200 33 No. 200 33 No. 200 No. 50 Cover Stabilometer Expansion Pressure Expansion Pressure AASHTO Classification A-2-4(0) Cover Stabilometer Expansion Pressure AASHTO Classification A-2-4(0) Cover Stabilometer Expansion Pressure AASHTO Classification A-2-4(0) Cover	Title:	Engineeri	ng Technician III		20		20	
Plastic Index 10 Specific Gravity Resistance Value 28 Cover Stabilometer Expansion Pressure 3/4" 100 Thickness 19.7 Expansion Pressure 1/2" 98 Sand Equivalent No. 4 88 Natural Moisture, % No. 10 81 Resistivity PH Factor AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33 No. 200 33 No. 200 33 No. 200 33 No. 200 No. 50 Cover Stabilometer Expansion Pressure Expansion Pressure AASHTO Classification A-2-4(0) Cover Stabilometer Expansion Pressure AASHTO Classification A-2-4(0) Cover Stabilometer Expansion Pressure AASHTO Classification A-2-4(0) Cover								
Specific Gravity Resistance Value 28		Sieve Size	% Passing		Liquid Limit	24		
1.5" Resistance Value 28		3"			Plastic Index	10	•	
1.5" Resistance Value 28 Cover Stabilometer Expansion Pressure 3/4" 100 Thickness 19.7		2"			Specific Gravity		•	
3/4" 100 1/2" 98 3/8" 95 No. 4 88 No. 10 81 No. 16 78 No. 40 69 No. 50 61 No. 100 43 No. 200 33 Thickness 19.7 Sand Equivalent Natural Moisture, % Resistivity pH Factor AASHTO Classification A-2-4(0)		1.5"			-		•	
1/2" 98 3/8" 95 No. 4 88 No. 10 81 No. 16 78 No. 40 69 No. 50 61 No. 100 43 No. 200 33		1"			Cover	Stabilometer	Expansion	Pressure
3/8" 95 No. 4 88 Natural Moisture, % No. 10 81 Resistivity No. 16 78 pH Factor No. 40 69 AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33 No. 200		3/4"	100		Thickness	19.7		
No. 4 88 Natural Moisture, % No. 10 81 Resistivity No. 16 78 pH Factor No. 40 69 AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33		1/2"	98					
No. 10 81 Resistivity No. 16 78 pH Factor No. 40 69 AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33		3/8"	95		Sand	Equivalent		
No. 16 78 pH Factor No. 40 69 AASHTO Classification A-2-4(0) No. 50 61 No. 100 43 No. 200 33		No. 4	88		Natur	ral Moisture, %		-
No. 40 69 No. 50 61 No. 100 43 No. 200 33		No. 10	81		Resis	tivity		-
No. 50 61 No. 100 43 No. 200 33		No. 16	78		pH Fa	actor		-
No. 100 43 No. 200 33		No. 40	69		AAS	HTO Classification	A-2-4(0)	
No. 200 33		No. 50	61					
		No. 100	43					
Remarks:		No. 200	33					
Remarks:								
Remarks:								
	Remarks:							

Date Reported: Lab No.:	8/24/11 S11-03, R	V-284-11					
E.A.:	73475		Job Description:	US 50 FROM L	Y 20.39 TO LY 2	25.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamiran	o, McFarren	Station	"X2" 1370+00		Route US 50	
Wimer			Location fro	om CL (ft)	Lt	Rt. 25'	_
Sample No.:	32		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □ D	C □ Other □	<u> </u>		0-	100
Vegetation:	None	Trees Shrubs	s 🗆	2	Silt Sand	Gravel 2-	4
	Brushy \square	Grassy		4		4-	-
Cut Section		Fill Section		6		6-	-
Taken Through Oil	l 🗆	Taken on Shoulder		8		8-	-
Gravel Depth (in)		Oil Depth (in)		10		10-	-
Remarks:				12		12-	-
				14		14-	-
				16		16-	-
Submitted By:	ALTAMI	RANO		18		18-	-
Title:	Engineeri	ng Technician III		20		20-	-
	3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Value	32 16 60	- - -	
	1"	94		Cover	Stabilometer	Expansion	n Pressure
	3/4"	91		Thickness	9.5		
	1/2"	72					
	3/8"	61		Sand Ed	quivalent		_
	No. 4	47		Natural	Moisture, %		_
	No. 10	39		Resistiv	rity	-	_
	No. 16	35		pH Fact	or		_
	No. 40	27		AASHT	O Classification	A-2-6(0)	_
	No. 50	23					
	No. 100	17					
	No. 200	12					
Remarks:							

Date Reported: Lab No.:	8/24/11 S11-03, R	V-285-11						
E.A.:	73475		Job Description:	US 50 FROM	LY 20.39 TO LY 2	25.61		
Date Rec'd	6/13/11							
Samplers:	Altamirar	o, McFarren	Station	"X2" 1370+0	0	Route	US 50	
Wimer			Location fro	om CL (ft)	Lt	Rt.	. 25'	
Sample No.:	32A		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV ■	Sub □	Chem □ DC	Other □	0			0	100
Vegetation:	None	Trees □ Shrubs		2			2	
	Brushy \square	Grassy		4	Silt Sand Gr	avel Clay	4	
Cut Section		Fill Section		6			6	
Taken Through Oil		Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:				12			12	
				14			14	
				16			16	
Submitted By:	ALTAMI	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	Sieve Size 3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Valu				
	1"	100		Cover	Stabilometer	•	Expansion F	ressure
	3/4"	99		Thicknes	s 19.4	=		
	1/2"	94						
	3/8"	87		Sand	l Equivalent			
	No. 4	81		Natu	ıral Moisture, %			
	No. 10	73		Resi	stivity			
	No. 16	69		рН Е	Factor			
	No. 40	61		AAS	SHTO Classification	A-2-6(1)		
	No. 50	55						
	No. 100	39						
	No. 200	30						
Remarks:								
								

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-286-11			_					
E.A.:	73475	_	Job D	Description:	<u>US 50 FR</u>	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Baker	=	Station	"X2" 138			-	e <u>US 50</u>	
McFarren			-	Location fro		Lt.		- F	Rt. <u>25'</u>	
Sample No.:	33			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	_		G'1, G 1	C 1	0	100
Vegetation:		Trees \square	Shrubs \square		2		Silt Sand	Gravel	2	
	Brushy	•			- 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					_ 12				12	
					_ 14				14	
					_ 16				16	
Submitted By:	ALTAMI				_ 18				18	
Title:	Engineer	ing Technician	III		20				20	
		1								
	Sieve Size	% Passing	•		Liquid Lim		20	-		
	3"		=		Plastic Inde		3	-		
	2"		=		Specific Gr	-		-		
	1.5"		_		Resistance	Value	<u>76</u>	-		
	1"		_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	100	_		Thic	kness	4.5	-		
	1/2"	87	_							
	3/8"	75	_			Sand Equi				
	No. 4	59	_				loisture, %			
	No. 10	46	_			Resistivity				
	No. 16	41	-			pH Factor				
	No. 40	29	_			AASHTO	Classification	A-1-a		
	No. 50	24	_							
	No. 100	17	_							
	No. 200	12	=							
Remarks:										

Date Reported:	8/24/11	_					
Lab No.:	S11-03, R	V-287-11	*		. T. AO AO EO T T.	3.F. < 1	
E.A.:	73475	-	Job Description:	US 50 FROM I	LY 20.39 TO LY 2	25.61	
Date Rec'd	6/13/11	<u>.</u>	a	U\$74U 1400 00		D TIC 50	
Samplers:	Altamira	10, Baker	Station	"X2" 1380+00		Route US 50	
McFarren	22.4			rom CL (ft)	Lt.	Rt. 25'	_
Sample No.:	33A		County:	LYON			
Sample Type:	_			Depth (ft)	Boring Description		PSI
RV ■	Sub □		OC Other			0-	
Vegetation:			os 🗆	2		2	
	Brushy \square	Grassy		4	Silt Sand		
Cut Section □		Fill Section		6		6-	
Taken Through Oil	1 🗆	Taken on Shoulder		8		8-	-
Gravel Depth (in)		Oil Depth (in)		10		10-	-
Remarks:				12		12-	
				14		14-	
				16		16-	
Submitted By:	ALTAMI	RANO		18		18-	
Title:	Engineeri	ng Technician III		20		20-	
	Sieve Size	% Passing		Liquid Limit	24	_	
	3"			Plastic Index	8	_	
	2"			Specific Gravity	-	_	
	1.5"			Resistance Value	62	_	
	1"			Cover	Stabilometer	Expansion	ı Pressure
	3/4"	100		Thickness	8.9		
	1/2"	96					
	3/8"	92		Sand I	Equivalent		
	No. 4	80		Natura	al Moisture, %		_
	No. 10	71		Resist	ivity		_
	No. 16	66		pH Fa	ctor		_
	No. 40	56		AASH	ITO Classification	A-2-4(0)	_
	No. 50	51					_
	No. 100	39					
	No. 200	26					
Remarks:							
	_						

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-288-11		_			
E.A.:	73475	Job	Description:	US 50 FROM I	LY 20.39 TO LY 2	5.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamira	no, Baker	Station	"X2" 1390+00		Route US 50	
McFarren			Location fro	om CL (ft)	Lt	Rt. 25'	_
Sample No.:	34		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub [☐ Chem ☐ DC ☐	Other □	<u> </u>		0-	100
Vegetation:	None	Trees □ Shrubs □]	2	Silt Sand	Gravel 2-	-
	Brushy \square	l Grassy □				4-	-
Cut Section		Fill Section		6		6-	-
Taken Through Oil	1 🗆	Taken on Shoulder		8		8-	-
Gravel Depth (in)	-	Oil Depth (in)		10		10-	-
Remarks:				12		12-	-
				14		14-	-
				16		16-	-
Submitted By:	ALTAM	IRANO		18		18-	_
Title:	Engineer	ing Technician III		20		20-	_
	3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Value	21 4 53		
	1.5"	100				T	D
	3/4"	97		Cover Thickness	Stabilometer 11.8	Expansion	Pressure
	1/2"	83		THICKHESS	11.0		
	3/8"	73		Sand E	Equivalent		
	No. 4	56			l Moisture, %		_
	No. 10	43		Resisti	•		_
	No. 16	37		pH Fac	•		_
	No. 40	27		•	TO Classification	A-1-a	_
	No. 50	23		7171511	10 Classification	11 1 4	_
	No. 100	17					
	No. 200	13					
	110.200						
Remarks:							

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-290-11	* 1 5	 ,	LIG EA ED		20 20 50 1 1/2			
E.A.:	73475	-	Job Descript	tion:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	- D.	a:	-	U\$74U 140	0.00			TIC 50	
Samplers:	Altamira	10, Baker	Statio	_	"X2" 139				e <u>US 50</u>	
McFarren	244				n CL (ft)	Lt.		R	25'	
Sample No.:	34A		Count	ty:	LYON					
Sample Type:	_	. –	_		Depth (ft)	В	oring Description			PSI
RV ■	Sub □			ther \square	0				0	100
Vegetation:			bs \square		2				2	
	Brushy \square	Grassy			4		Silt Sand	Gravel	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil	l 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	Sieve Size	% Passing]	Liquid Lim	nit	23			
	3"]	Plastic Inde	ex	6			
	2"			;	Specific Gr	ravity				
	1.5"]	Resistance	Value	64			
	1"			(Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thic	kness	8.3			
	1/2"	95								
	3/8"	88				Sand Equ	ivalent			
	No. 4	74				Natural M	Ioisture, %			
	No. 10	61				Resistivity	y			
	No. 16	55				pH Factor	•			
	No. 40	45				•	Classification	A-1-b		
	No. 50	41								
	No. 100	33								
	No. 200	25								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	- .V-291-11								
E.A.:	73475	., _, _,	Job D	Description:	US 50 FI	ROM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	-		1						
Samplers:	Altamira	- no, Baker		Station	"X2" 140	00+00		Route	e US 50	
McFarren	-			Location fro		Lt.		_	at. 25'	
Sample No.:	35			County:	LYON			_		•
Sample Type:					Depth (ft)	В	Boring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other □	0				0	100
Vegetation:	None	Trees \square	Shrubs		2		Silt Sand	Gravel	2	
	Brushy	Grassy			_ 4				4	
Cut Section □		Fill Section	1		6				6	
Taken Through Oi	1 🗆	Taken on Should	ler =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	Ш		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8"	% Passing 100 96 72 65			Liquid Lir Plastic Ind Specific G Resistance Cover Thio	lex ravity	20 4 57 Stabilometer 10.5	- - - -	Expansion	Pressure
	No. 4	51				_	Ioisture, %	-		
	No. 10	39				Resistivit				
	No. 16	34				pH Factor	-			
	No. 40	25				-	Classification	A-1-a		
	No. 50	21				AASIIIC	Classification	Α-1-α		
	No. 100	15								
	No. 200	12								
Remarks:										
-										

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-292-11					
E.A.:	73475		Description:	US 50 FROM	1 LY 20.39 TO LY 2	25.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamira	no, Baker	Station	"X2" 1400+0	00	Route US 50)
McFarren			Location fro	om CL (ft)	Lt.	Rt. 25	•
Sample No.:	35A		County:	LYON	·		
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub [☐ Chem ☐ DC ☐	Other -	0			0 100
Vegetation:	None	Trees □ Shrubs □		2			2
	Brushy \Box	l Grassy □			Silt Sand	Gravel	4
Cut Section		Fill Section		6			6
Taken Through Oi	1 🗆	Taken on Shoulder		8			8
Gravel Depth (in)		Oil Depth (in)	_	10			10
Remarks:				12			12
				14			14
				16			16
Submitted By:	ALTAM	IRANO		18			18
Title:	Engineer	ing Technician III		20		2	20
	Sieve Size			Liquid Limit Plastic Index Specific Gravit		- -	
	1.5"	100		Resistance Valu	-	-	
	1"	99		Cover	Stabilometer	Expans	sion Pressure
	3/4"	99		Thicknes	ss <u>12.7</u>		
	1/2"	94		_			
	3/8"	89			d Equivalent		
	No. 4	78			ural Moisture, %		
	No. 10	66			stivity		
	No. 16	59		•	Factor	A 2 4(0)	
	No. 40	47		AAS	SHTO Classification	A-2-4(0)	
	No. 50	42					
	No. 100	34 27					
	No. 200	21					
Remarks:							
Kemarks.							

Date Reported:	8/24/11	- V 202 11								
Lab No.:	S11-03, R	V-293-11	LID			N	00 20 TO 1 W 1)		
E.A.:	73475	_	JOB D	escription:	US 50 FRO	DIVILY 2	20.39 TO LY 2	25.01		
Date Rec'd	6/13/11	- - Dolon		Cr. d	"X2" 1410-	. 00		D. (TIC FO	
Samplers:	Altamira	10, Вакег		Station					e <u>US 50</u>	
McFarren Sample No.:	36			Location from County:	LYON	Lt.		· · · · · · ·	Rt. <u>36'</u>	
	30			County.		ъ				DGI
Sample Type: RV ■	Sub □	l Chem □	DC 🗆	Other □	Depth (ft) 0	Во	ring Description		0	PSI 100
Vegetation:			rubs \square	Other =	2		Silt Sand	Gravel	2	100
vegetation.		Grassy	iiuos 🗀		4		2111 24114	014/01	4	
Cut Section	brushly L	Fill Section			- 6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	. ⊔	Oil Depth (in)	_		10				10	
Remarks:		On Depth (III)		•	12				12	
Kemarks.					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:		ng Technician III	T		20				20	
	Sieve Size 3" 2"	% Passing			Liquid Limit Plastic Index Specific Grav	vity	3			
	1.5"				Resistance V	alue	76			
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	89			Thickn	iess	4.5			
	1/2"	72								
	3/8"	60				and Equiv				
	No. 4	45					oisture, %			
	No. 10	36				esistivity				
	No. 16	32			-	H Factor				
	No. 40	23			A	ASHTO	Classification	A-1-a		
	No. 50	19								
	No. 100	13								
	No. 200	10								
Remarks:										

Date Reported:	8/24/11	<u>-</u>						
Lab No.:	S11-03, R	V-294-11				SE 24		
E.A.:	73475	-	Job Description:	US 50 FROM	LY 20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	<u>-</u>	a	U773U 4 440 04	0		TIC 50	
Samplers:	Altamira	10, Baker	Station	"X2" 1410+00		-	<u>US 50</u>	
McFarren	264			rom CL (ft)	Lt	Rt	. 36'	
Sample No.:	36A		County:	LYON				
Sample Type:	a		ъс. П	Depth (ft)	Boring Description			PSI
RV ■	Sub -		OC Other	_			0	100
Vegetation:		Trees	os ⊔	2	611.6 1.6	1.61	2	
	Brushy \Box	Grassy Fill G		_ 4	Silt Sand Gr	avel Clay	4	
Cut Section □	. –	Fill Section	_	6			6	
Taken Through Oil	1 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:							12	
							14	
G 1 1 D	AT TANK	DANO					16	
Submitted By: Title:	ALTAMI	ng Technician III					18 20	
	Sieve Size	% Passing		Liquid Limit	22	_		
	3"			Plastic Index	7	-		
	2"			Specific Gravity		-		
	1.5"			Resistance Valu	-	-		
	1"	100		Cover	Stabilometer		Expansion F	Pressure
	3/4"	97		Thickness	s <u>15.6</u>	-		
	1/2"	81						
	3/8"	71			l Equivalent			
	No. 4	60			ral Moisture, %			
	No. 10	51			stivity			
	No. 16	46		•	Factor			
	No. 40	38		AAS	HTO Classification	A-2-4(0)		
	No. 50	33						
	No. 100	25						
	No. 200	19						
Remarks:								

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-295-11					
E.A.:	73475		Description:	US 50 FROM I	Y 20.39 TO LY 2	5.61	
Date Rec'd	6/13/11	_					
Samplers:	Altamira	no, Baker	Station	"X2" 1420+00		Route US 50	1
McFarren			Location fro	om CL (ft)	Lt	Rt. 35'	
Sample No.:	37		County:	LYON			
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub [☐ Chem ☐ DC ☐	Other □	0			0 100
Vegetation:	None	Trees □ Shrubs □	l	2	Silt Sand	Gravel	2
	Brushy \square	l Grassy □		4			4
Cut Section		Fill Section		6			6
Taken Through Oi	1 🗆	Taken on Shoulder		8			8
Gravel Depth (in)		Oil Depth (in)		10		1	10
Remarks:				12		1	12
				14		1	14
				16		1	16
Submitted By:	ALTAM	IRANO		18		1	18
Title:	Engineer	ing Technician III		20		2	20
	3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Value	19 2 57		
	1"			Cover	Stabilometer	Expans	ion Pressure
	3/4"	100		Thickness	10.5		
	1/2"	89					
	3/8"	78			Equivalent		
	No. 4	60			l Moisture, %		
	No. 10	47		Resisti	•		
	No. 16	41		pH Fac	TO Classification		
	No. 40	30 25		AASH	10 Classification	A-1-a	
	No. 50	18					
	No. 100 No. 200	13					
	No. 200	13					
Remarks:							
						 	

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-296-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FI	ROM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Baker	_	Station	"X2" 14	20+00		Route	US 50	
McFarren			_	Location fro		Lt.	·	R	t. <u>35'</u>	
Sample No.:	37A			County:	LYON					
Sample Type:					Depth (ft)		Boring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	0				0	100
Vegetation:	None	Trees	Shrubs \square		2				2	
	Brushy \square	Grassy			_ 4		Silt Sand Gr	avel Clay	4	
Cut Section					6				6	
Taken Through Oil		Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					_ 12				12	
					_ 14				14	
					_ 16				16	
Submitted By:	ALTAMI	RANO			_ 18				18	
Title:	Engineeri	ng Technician	III		_ 20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16	97 93 86 71 57	• - - - - -		Liquid Lin Plastic Inc Specific C Resistance Cover Thie	dex Gravity e Value ckness Sand Equ	Ioisture, % y		Expansion F	ressure
	No. 40	38	-			-	Classification	A-1-b		
	No. 50	34	-			AASIIIC	Classification	A-1-0		
	No. 100	26	-							
	No. 200	20	-							
Remarks:										

Date Reported:	8/24/11	_								
Lab No.:	S11-03, R	V-297-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/13/11	_								
Samplers:	Altamira	no, Baker	=	Station	"X2" 142			-	e <u>US 50</u>	
McFarren			-	Location fro		Lt.		_ R	tt. <u>25'</u>	
Sample No.:	38			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	-		G'1, G 1	C 1	0	100
Vegetation:		Trees \square	Shrubs \square		2		Silt Sand	Gravel	2	
	Brushy \square	•			_ 4				4	
Cut Section □		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician	III		20				20	
	Sieve Size	% Passing	•		Liquid Lim	iit	21	_		
	3"		_		Plastic Inde	ex	5	-		
	2"		_		Specific Gr	avity		_		
	1.5"		_		Resistance	Value	39	_		
	1"		_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	100	=		Thick	kness	16.2	_		
	1/2"	81	_							
	3/8"	69	_		\$	Sand Equi	ivalent			
	No. 4	54	_]	Natural M	loisture, %			
	No. 10	40	_]	Resistivity	y			
	No. 16	35	_		1	pH Factor	•			
	No. 40	25	_		1	AASHTO	Classification	A-1-a		
	No. 50	21	=							
	No. 100	15	=							
	No. 200	11	_							
D 1										
Remarks:										

Date Reported:	8/24/11	-								
Lab No.:	S11-03, R	V-298-11	* 1 5 .		- 		40 40 FO I V	35 (1		
E.A.:	73475	-	Job Descrip	tion:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/13/11	<u>.</u>	Gt		U370U 140	0.25			TIC 50	
Samplers:	Altamira	10, Baker	Statio		"X2" 142			-	US 50	
McFarren	20 4				m CL (ft)	Lt.		_ Rt	t. <u>25'</u>	
Sample No.:	38A		Coun	ity:	LYON					
Sample Type:	a		.	. –	Depth (ft)	В	oring Description		2	PSI
RV ■	Sub -			ther \square	-				0	100
Vegetation:			bs 🗆		2		G11. G 1. G	11.01	2	
	Brushy \square	Grassy			- 4		Silt Sand Gra	vel Lt Clay		
Cut Section □	. –	Fill Section	_		6				6	
Taken Through Oil	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					- 14				14	
G 1 1 D	AT TANT	DANO			16				16	
Submitted By: Title:	ALTAMI	ng Technician III			- 18 20				18 20	
	Sieve Size	% Passing			Liquid Lim	nit	24	_		
	3"				Plastic Inde	ex	8	=		
	2"				Specific G	ravity		_		
	1.5"				Resistance	Value	43	=		
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	98			Thic	kness	14.9	=		
	1/2"	96								
	3/8"	93				Sand Equi	ivalent			
	No. 4	86				Natural M	loisture, %			
	No. 10	77				Resistivity	y			
	No. 16	71				pH Factor	•			
	No. 40	60				AASHTO	Classification	A-4(0)		
	No. 50	56								
	No. 100	46								
	No. 200	36								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-299-11		_					
E.A.:	73475	Jo	b Description:	US 50 FRO	MLY 2	20.39 TO LY	25.61		
Date Rec'd	6/23/11	-							
Samplers:	Altamira	10, Rigsby	Station	"X2" 1425+			_	US 50	
Sample No.:	39		Location fro	om CL (ft) LYON	Lt.	50'	_ Rt	•	
Sample Type:				Depth (ft)	Bo	ring Description			PSI
RV ■	Sub □	Chem □ DC	□ Other □	0				0	150
Vegetation:	None	Trees □ Shrubs		2		Silt, Sand, Ve	ry Lt Gravel	2	
	Brushy	Grassy		4		Very Lt	Clay	4	
Cut Section		Fill Section		6				6	
Taken Through Oil	1 🗆	Taken on Shoulder	I	8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size	% Passing		Liquid Limit		24	_		
	3"			Plastic Index		10	=		
	2"			Specific Grav	ity		=		
	1.5"			Resistance Va	alue	39	_		
	1"			Cover		Stabilometer		Expansion I	Pressure
	3/4"	100		Thickne	ess	16.2	_		
	1/2"	95							
	3/8"	93		Sa	nd Equiv	alent			
	No. 4	84		Na	atural Mo	oisture, %			
	No. 10	71		Re	esistivity				
	No. 16	63		pН	I Factor		1		
	No. 40	49		AA	ASHTO	Classification	A-2-4(0)		
	No. 50	44							
	No. 100	35							
	No. 200	30							
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, R	V-302-11			_					
E.A.:	73475		Job De	escription:	US 50 FRO	OM LY 2	0.39 TO LY 2	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby		Station	"X2" 1415		4=01	_	<u>US 50</u>	
Sample No.:	40			Location fro County:	om CL (ft) LYON	Lt.	170'	Rt		
Sample Type:	-				Depth (ft)	Bor	ing Description			PSI
RV ■	Sub □	Chem □	DC \square	Other □					0	150
Vegetation:			rubs 🗆		2		Silt, S	and	2	
	Brushy \square				4		Lt Gra		4	
Cut Section		Fill Section			6				6	
Taken Through Oil	l 🗆	Taken on Shoulder	· •		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:		at grass, drill hole v	vas drilled (@	12				12	
	Topaz Stree				14				14	
	•				16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineerin	ng Technician II	I		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40	94 90 84 78 74 63			N R p	vity Value ness and Equiv Vatural Mo Resistivity H Factor		A-2-4(0)	Expansion l	Pressure
	No. 50 No. 100 No. 200	55 38 26								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	V-303-11		_					
E.A.:	73475	. Jo	b Description:	US 50 FROM	M LY 20	0.39 TO LY 2	25.61		
Date Rec'd	6/23/11		a	U\$70U 4.44.4	00			TIC FO	
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1414+			_	US 50	
Sample No.:	41		Location fro	om CL (ft) LYON	Lt	55'	_ R	t	
Sample Type:	- 11		County.	Depth (ft)	Bori	ng Description			PSI
RV ■	Sub □	Chem □ DC	□ Other □		Born	ing Description		0	150
Vegetation:		Trees □ Shrubs		2		Silt, Sand,	Gravel	2	100
		Grassy		4		Lt Cl		4	
Cut Section □		Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder	ı	8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:		<u> </u>		12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size 3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravi Resistance Va	lue	26 12 29	- - -		
	1"			Cover		Stabilometer		Expansion I	Pressure
	3/4"	100		Thickne	ess _	19.4	-		
	1/2"	97				_			
	3/8"	93			nd Equiva				
	No. 4	85			tural Moi	sture, %			
	No. 10	73			sistivity				
	No. 16	<u>67</u>		-	Factor	71:6:4:	A 2 6(0)		
	No. 40	57		AA	ISHIO (Classification	A-2-6(0)	
	No. 100	52 41							
	No. 200	32							
Remarks:									
				_					

Date Reported: Lab No.:	8/24/11 S11-03, R	V-304-11		_			
E.A.:	73475		Job Description:	US 50 FROM L	Y 20.39 TO LY 2	5.61	
Date Rec'd	6/23/11						
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1410+00		Route US 50	
Sample No.:	42		Location fr County:	om CL (ft) LYON	Lt. 152'	Rt	_
Sample Type:				Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □	DC Other		8	0	150
Vegetation:			rubs 🗆	2	Silt, Sa	and 2	
	Brushy \square			4	Grave		
Cut Section		Fill Section		6		6	-
Taken Through Oi	1 🗆	Taken on Shoulder		8		8	-
Gravel Depth (in)		Oil Depth (in)		10		10	-
Remarks:		as moved south 8' d	ue to conflict with	12		12	-
	buried utilit	y. 8" tall cheat gras	S.	14		14	-
				16		16	-
Submitted By:	ALTAMI	RANO		18		18	
Title:	Engineeri	ng Technician III		20		20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 90		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	23 5 54 Stabilometer 8.4	Expansion	Pressure
	3/8"	84		Sand E	quivalent		
	No. 4	71			l Moisture, %		_
	No. 10	60		Resisti	-		_
	No. 16	53		pH Fac	tor		_
	No. 40	40		AASH	TO Classification	A-1-b	_
	No. 50	35			·		_
	No. 100	26					
	No. 200	18					
Remarks:							

Date Reported: Lab No.:	8/24/11 S11-03, R	V-305-11		<u>_</u>				
E.A.:	73475	•	Job Description:	US 50 FROM	LY 20.39 TO	O LY 25.6	<u> </u>	
Date Rec'd	6/23/11							
Samplers:	Altamirar	o, Rigsby	Station	"X2" 1405+00			Route US 50	
Sample No.:	43		Location fro County:	om CL (ft) LYON	Lt55	5'	Rt	-
Sample Type:				Depth (ft)	Boring Descri	iption		PSI
RV ■	Sub □	Chem □ D	C Other	0			0	150
Vegetation:	None □	Trees Shrubs	s 🗆	2		Silt, Sand	2	
	Brushy \square	Grassy =		4		Gravel	4	
Cut Section □		Fill Section		6			6	
Taken Through Oi	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:	6" tall cheat	grass.		12			12	
				14			14	
				16			16	
Submitted By:	ALTAMI	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
		ī						
	Sieve Size	% Passing		Liquid Limit	2			
	3"			Plastic Index		<u> </u>		
	2"			Specific Gravity				
	1.5"	100		Resistance Valu	-			
	1"	99		Cover	Stabilor		Expansion	Pressure
	3/4"	99		Thickness	<u>9.</u>	5		
	1/2"	95						
	3/8"	94		Sand	Equivalent			-
	No. 4	84		Natu	ral Moisture, 9	<u> </u>		_
	No. 10	71		Resis	stivity			_
	No. 16	65		pH F				_
	No. 40	53		AAS	HTO Classific	eation A	-2-4(0)	_
	No. 50	46						
	No. 100	30						
	No. 200	20						
Remarks:								

Date Reported: Lab No.:	8/24/11 S11-03, R	V-306-11		_			
E.A.:	73475		Job Description:	US 50 FROM	LY 20.39 TO LY	25.61	
Date Rec'd	6/23/11						
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1400+00)	Route US 50	
Sample No.:	44		Location fro County:	om CL (ft) LYON	Lt. 150'	Rt	_
Sample Type:			county.	Depth (ft)	Boring Description		PSI
RV =	Sub □	Chem □	DC Other	_	Bornig Description	0	
Vegetation:			ıbs 🗆	2	Silt, S		_
8	Brushy			4	Lt Gr		_
Cut Section		Fill Section		6		6-	
Taken Through Oil		Taken on Shoulder		8		8	-
Gravel Depth (in)		Oil Depth (in)		10		10	-
Remarks:		as moved 10' south d	ue to buried	12		12	
		all cheat grass.		14		14	
		<u> </u>		- 16		16-	-
Submitted By:	ALTAMII	RANO		18		18-	-
Title:		ng Technician III		20		20-	-
	Sieve Size 3" 2"	% Passing		Liquid Limit Plastic Index Specific Gravity		- - -	
	1.5"	100		Resistance Value	e 69		
	1"	99		Cover	Stabilometer	Expansion	Pressure
	3/4"	96		Thickness	4.9	_	
	1/2"	89					
	3/8"	83		Sand	Equivalent		_
	No. 4	72		Natur	ral Moisture, %		_
	No. 10	60		Resis	•		_
	No. 16	53		pH F		-	_
	No. 40	40		AAS	HTO Classification	A-1-b	_
	No. 50	36					
	No. 100	26					
	No. 200	18					
Remarks:							
						-	

Date Reported: Lab No.:	8/24/11 AASHTO	 Classification							
E.A.:	73475		Description:	US 50 FROM	LY 20.	.39 TO LY 2	25.61		
Date Rec'd	6/23/11	-	•						
Samplers:	Altamira	no, Rigsby	Station	"X2" 1395+00	0		Route	uS 50	
_			Location fro	om CL (ft)	Lt.	50'	R	t.	
Sample No.:	45		County:	LYON					
Sample Type:				Depth (ft)	Borin	g Description			PSI
RV ■	Sub □	Chem □ DC □	Other □	<u> </u>				0	150
Vegetation:	None □	Trees □ Shrubs □]	2		Silt, Sa	and	2	
	Brushy	Grassy =		_ 4		Grav	el	4	
Cut Section □		Fill Section □		6				6	
Taken Through Oi	1 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)	_	10				10	
Remarks:	6" tall chea	t grass.		_ 12				12	
				_ 14				14	
				_ 16				16	
Submitted By:	ALTAMI			_ 18				18	
Title:	Engineer	ing Technician III		_ 20				20	
	Sieve Size	% Passing		Liquid Limit		24			
		% Fassing		_	_	3	ı		
	2"			Plastic Index	–	3	i		
	1.5"	100		Specific Gravity Resistance Valu		77			
	1"	91		Cover	_	tabilometer		Expansion I	Dracciira
	3/4"	87		Thickness		4.1		Expansion	ressure
	1/2"	77		Tillekiless	_	4.1	i		
	3/8"	70		Sand	l Equival	ent			
	No. 4	55			ral Mois				
	No. 10	44			stivity	tare, 70			
	No. 16	38			actor				
	No. 40	27		•		lassification	A-2-6(0)		
	No. 50	22						`	
	No. 100	15							
	No. 200	10							
Remarks:									
								<u> </u>	

Date Reported:	8/24/11	V 200 11								
Lab No.: E.A.:	S11-03, RY 73475	V-3U8-11	Ioh I	Description:	_ _ IIS 50 FD/	OMIV	20.39 TO LY 2	05 61		
Date Rec'd	6/23/11		J00 1	bescription.	US SUTK	ONLLI	20.39 TO L1 2	23.01		
Samplers:	Altamiran	o Rigeby		Station	"X2" 1390) <u>+00</u>		Pouts	e US 50	
Samplers.	Aitaiiii aii	o, Rigsby		Location fro	-	Lt.	140'	Round		
Sample No.:	46			County:	LYON	Lt.	170			
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other	0				0	150
Vegetation:	None □	Trees S	Shrubs 🗆		2		Silt, S	and	2	
	Brushy \square	Grassy =			4		Very Lt (Gravel	4	
Cut Section □		Fill Section	l		6				6	
Taken Through Oi	1 🗆	Taken on Should	er =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:	8" tall cheat	grass, drill hole v	vas drilled	10' south	12				12	
	due to burie	d utility.			14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineerin	ng Technician I	II		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 94			Liquid Limi Plastic Inde Specific Gra Resistance V Cover Thick	x avity Value mess	24 5 72 Stabilometer 4.2		Expansion F	Pressure
	3/8"	91				Sand Equi				
	No. 4	81				Natural Mo				
	No. 10	<u>67</u>				Resistivity				
	No. 16	58			•	H Factor	C1 : C :			
	No. 40	39			F	AASHIO	Classification	A-1-b		
	No. 50	31								
	No. 100 No. 200	20 13								
Remarks:	140. 200	13								

Date Reported: Lab No.:	8/24/11 S11-03, R	V-309-11		_					
E.A.:	73475	. J	ob Description:	US 50 FROM	1 LY 20.	39 TO LY 2	25.61		
Date Rec'd	6/23/11	•							
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1385+0			<u></u>	US 50	
Sample No.:	47		Location fro	om CL (ft) LYON	Lt	70'	Rt.		
Sample Type:				Depth (ft)	Boring	g Description			PSI
RV ■	Sub □	Chem □ DC	Other □	0				0	150
Vegetation:	None □	Trees □ Shrubs		2		Silt, Sa	and	2	
	Brushy \square	Grassy =		4		Lt. Gra	ivel	4	
Cut Section □		Fill Section		6				6	
Taken Through Oi	l 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	6" tall cheat	t grass.		12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size	% Passing		Liquid Limit		20	·		
	3"			Plastic Index		NP			
	2"			Specific Gravit					
	1.5"			Resistance Val	ue	75			
	1"			Cover	St	abilometer		Expansion I	Pressure
	3/4"	100		Thicknes	ss	4.8			
	1/2"	93							
	3/8"	90		Sano	d Equival	ent			
	No. 4	81		Natı	ural Moist	ture, %			
	No. 10	72		Resi	istivity				
	No. 16	67		pH l	Factor				
	No. 40	55		AAS	SHTO CI	assification	A-2-4(0)		
	No. 50	50							
	No. 100	37							
	No. 200	23							
D 1									
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, R	V-310-11		_					
E.A.:	73475		Job Description:	US 50 FROM	LY 20.39	TO LY 2	25.61		
Date Rec'd	6/23/11								
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1375+0			-	US 50	
Sample No.:	48		Location fro	om CL (ft) LYON	Lt	50'	Rt.		
Sample Type:			-	Depth (ft)	Boring D	escription			PSI
RV ■	Sub □	Chem □ D	C Other	0	-	_		0	150
Vegetation:	None □	Trees Shrubs	s 🗆	2		Silt, S	and	2	
	Brushy \square	Grassy		4		Grav	rel	4	
Cut Section		Fill Section		6				6	
Taken Through Oil		Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	4" tall cheat	grass.		12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size 3" 2"	% Passing		Liquid Limit Plastic Index Specific Gravity		6	· · ·		
	1.5"			Resistance Valu		70	_		
	1"			Cover		ilometer		Expansion I	Pressure
	3/4"	100		Thickness	s	6.4	<u>-</u>		
	1/2"	95							
	3/8"	89			l Equivalent				
	No. 4	82			ral Moistur	e, %			
	No. 10	74			stivity				
	No. 16	71		-	actor		A 2 ((0)		
	No. 40	<u>60</u>		AAS	HTO Clas	sification	A-2-6(0)		
	No. 50	50							
	No. 100	27							
	No. 200	18							
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, R	V-311-11		_					
E.A.:	73475	. Jo	b Description:	US 50 FROM	<u> 1 LY 20.</u>	.39 TO LY 2	25.61		
Date Rec'd	6/23/11								
Samplers:	Altamirar	o, Rigsby	Station	"X2" 1365+0			•	<u>US 50</u>	
Sample No.:	49		Location fro County:	om CL (ft) LYON	Lt	40'	Rt		
Sample Type:				Depth (ft)	Boring	g Description			PSI
RV ■	Sub □	Chem □ DC	□ Other □	0				0	150
Vegetation:	None	Trees □ Shrubs		2		Silt, Sa	and	2	
	Brushy \square	Grassy		4		Grav	el	4	
Cut Section		Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder	I	8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size	% Passing		Liquid Limit		18			
	3"			Plastic Index		2			
	2"			Specific Gravit			ī		
	1.5"			Resistance Val	lue	43			
	1"			Cover	St	tabilometer		Expansion I	Pressure
	3/4"	100		Thicknes	ss	14.9	ī		
	1/2"	94							
	3/8"	91		San	d Equival	ent			
	No. 4	77		Nati	ural Mois	ture, %			
	No. 10	68		Res	istivity				
	No. 16	64		pH l	Factor				
	No. 40	54		AAS	SHTO C	lassification	A-2-4(0)		
	No. 50	45							
	No. 100	26							
	No. 200	18							
Remarks:									
1.Ummino.									

Date Reported: Lab No.:	8/24/11 S11-03, R	V-317-11							
E.A.:	73475		Job Description	US 50 FRO	OM LY 20	0.39 TO LY 2	25.61		
Date Rec'd	6/23/11								
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1355				<u>US 50</u>	
Sample No.:	50		Location County:	from CL (ft) LYON	Lt	60'	Rt	·	
Sample Type:				Depth (ft)	Bori	ng Description			PSI
RV ■	Sub □	Chem □ □	OC Other					0	150
Vegetation:		Trees □ Shrub		2		Silt, S	and	2	
	Brushy \square			4		Grav		4	
Cut Section	·	Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	6" tall cheat			12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4"	% Passing		Liquid Limi Plastic Index Specific Gra Resistance V Cover Thick	xnvityValue	19 2 71 Stabilometer 6.0		Expansion I	Pressure
	1/2"	96			15	1 .			
	3/8"	94			and Equiva				
	No. 4	85 79			Natural Moi	sture, %			
	No. 10	76			Resistivity H Factor				
	No. 16	65		-		Classification	A-2-4(0)		
	No. 50	56		F	казпто (Jassification	A-2-4(0)		
	No. 100	34							
	No. 200	19							
Remarks:									

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-318-11			_					
E.A.:	73475		Job Do	escription:	US 50 FRO	OM LY 2	20.39 TO LY	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby		Station	"X2" 1345	5+00		Route	US 50	
McFarren, Wim				Location fro		Lt.	60'	_ R	t	
Sample No.:	51			County:	LYON					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV ■	Sub □	Chem □	DC \square	Other	0				0	450
Vegetation:	None □	Trees □ Sl	hrubs \square		2		Silt, Sand	, Gravel	2	
	Brushy \square	Grassy =			4				4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	l 🗆	Taken on Shoulder	r \blacksquare		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Refusal @ 3	B', unable to penetra	ate (possibly	y due to	12				12	
	cobbles or b	oulders) 8" tall che	eat grass.		14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineeri	ng Technician II	I		20				20	
	3" 2"				Plastic Index Specific Gra		4	<u>-</u>		
	-				_	-		_		
	1.5"	100			Resistance V	Value	46	_		_
	1"	99			Cover		Stabilometer		Expansion I	ressure
	3/4"	99			Thick	iness	14.0	_		
	1/2"	93								
	3/8"	91				Sand Equiv				
	No. 4	83				Natural Mo	oisture, %			
	No. 10	75				Resistivity				
	No. 16	72			-	H Factor	C1 10 1	A 2 4(0)		
	No. 40	61			Α	AASHTO	Classification	A-2-4(0))	
	No. 50	54								
	No. 100	37								
	No. 200	25								
D 1										
Remarks:										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-319-11			_					
E.A.:	73475		Job D	Description:	US 50 FR	OM LY	20.39 TO LY 2	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby		Station	"X2" 133	5+00		Route	US 50	
Wimer, McFarr				Location fro	om CL (ft)	Lt.	70'	Rt		
Sample No.:	52			County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other -	0				0	150
Vegetation:	None □	Trees	Shrubs \square		2		Silt, Sa	and	2	
	Brushy \square	Grassy					Grav	el	4	500
Cut Section □		Fill Section]		6				6	
Taken Through Oi	1 🗆	Taken on Should	er		8				8	
Gravel Depth (in)	1	Oil Depth (in)		_	10				10	
Remarks:	6" tall cheat	grass, cobbles @	3' possibly	boulders	12				12	
	PSI from 4'-	-5' was 500 PSI.			14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	Ш		20				20	
	Sieve Size	% Passing			Liquid Lim	it	27			
	3"				Plastic Inde		10	•		
	2"				Specific Gra			•		
	1.5"				Resistance	-	28	•		
	1"	100			Cover		Stabilometer	•	Expansion 1	Pressure
	3/4"	84			Thick	cness	19.7		•	
	1/2"	79						•		
	3/8"	73			S	Sand Equiv	valent			
	No. 4	60				Natural Mo				
	No. 10	49			I	Resistivity				
	No. 16	45			I	oH Factor				
	No. 40	37			1	AASHTO	Classification	A-2-4(0)		
	No. 50	33								
	No. 100	23								
	No. 200	18								
Remarks:										
						A.		•		

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-320-11								
E.A.:	73475		Job Descrip	otion:	US 50 FR	OM LY	20.39 TO L	Y 25.61		
Date Rec'd	6/23/11			_						
Samplers:	Altamiran	o, Rigsby	Statio	on _	''X2'' 132	27+80		Rout	e <u>US 50</u>	
McFarren, Win		_	Loca	tion from		Lt.	160'	F	Rt	
Sample No.:	53		Coun	nty:	LYON					
Sample Type:				_	Depth (ft)	В	oring Description		1	PSI
RV ■	Sub □	Chem □	DC 🗆 O	Other \square	0		Type	II Base	0	
Vegetation:	None	Trees □ S	hrubs \square		2			, Sand	2	200
	Brushy \square	Grassy			4		G	ravel	4	150
Cut Section □		Fill Section			6				6	
Taken Through Oi	l 🗆	Taken on Shoulde	r \blacksquare		8		S	and	8	
Gravel Depth (in)	i 	Oil Depth (in)			10				10	
Remarks:	200 PSI was	s applied from 0-4'	. 150 PSI was ap	pplied	12				12	
	from 4'-5', d	rill hole was drille	d 5' left of CL of	<u> </u>	14				14	
	Lucille Ave	nue.			16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician II	II		20				20	
	3" 2" 1.5" 1" 3/4"	% Passing 100 94 90] ;	Liquid Lim Plastic Indo Specific Gi Resistance Cover Thic	ex ravity	78 Stabilometer 2.8	— — — —	Expansion 1	Pressure
	1/2"	81								
	3/8"	75				Sand Equi				
	No. 4	65					loisture, %			
	No. 10	55				Resistivity				
	No. 16	51				pH Factor				
	No. 40	39				AASHTO	Classification	n <u>A-1-b</u>		
	No. 50	32								
	No. 100	20								
	No. 200	14								
Remarks:										
										

Date Reported: Lab No.:	8/24/11 S11-03, R	V-321-11		_					
E.A.:	73475	Job	Description:	US 50 FROM	<u> 1 LY 20</u>	.39 TO LY 2	25.61		
Date Rec'd	6/23/11	. Disaba	G:	UV2U 1225 . (00		D (TIC FO	
Samplers:	Altamiran	io, Rigsby	Station Location from	"X2" 1325+(65'	Route	<u>US 50</u>	
Sample No.:	54		County:	LYON	Lt	05	. К	l	
Sample Type:				Depth (ft)	Borin	g Description			PSI
RV ■	Sub □	Chem □ DC □	□ Other □					0	150
Vegetation:	None	Trees Shrubs		2		Silt, S	and	2	
	Brushy \square	Grassy		4		Grav	el	4	
Cut Section		Fill Section		6				6	
Taken Through Oil		Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:		·		12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8"	% Passing 100 93 91 88		Liquid Limit Plastic Index Specific Gravit Resistance Val Cover Thickness	lue S	24 5 62 tabilometer 8.9	- - -	Expansion l	Pressure
	No. 4	83		Nat	ural Mois	sture, %			
	No. 10	77		Res	istivity				
	No. 16	74		pH	Factor				
	No. 40	64		AA	SHTO C	lassification	A-2-4(0))	
	No. 50	56							
	No. 100	36							
	No. 200	23							
Remarks:									

Date Reported:	8/24/11									
Lab No.:	S11-03, RV	7-322-11			_					
E.A.:	73475		Job De	escription:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby	:	Station	"X2" 1315	5+00			US 50	
McFarren				Location fro		Lt.	60'	Rt	i	
Sample No.:	55		(County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV ■	Sub \square	Chem	DC 🗆	Other -	0				0	150
Vegetation:			rubs \square		2		Sil	t	2	
	Brushy	•			_ 4		San	nd	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Drill hole wa	as drilled on top of	cut, on the	edge of	12				12	
	cut. 6" tall o	cheat grass and sage	ebursh was		14				14	
	present.				16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineerin	ng Technician III	[20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40	100 99 94 84 75 57			1 F F	x avity Value aness Sand Equi Vatural M Resistivity OH Factor	oisture, %	A-2-4(0)	Expansion l	Pressure
	No. 50 No. 100	50 39			F	ААЗНТО	Classification	A-2-4(0)	_	
	No. 200	30								
Remarks:										

Date Reported:	8/24/11								
Lab No.:	S11-03, R	V-323-11							
E.A.:	73475		Job Description	n: <u>US 50 FR</u>	OM LY 2	0.39 TO LY 2	5.61		
Date Rec'd	6/23/11								
Samplers:	Altamiran	o, Rigsby	Station	"X2" 130	5+00			US 50	
McFarren				from CL (ft)	Lt.	70'	R	t	
Sample No.:	56		County:	LYON					
Sample Type:				Depth (ft)	Bori	ing Description		ı	PSI
RV ■	Sub 🗆	Chem □	DC Othe	<u>r </u>				0	250
Vegetation:	None □	Trees □ Shr	ubs 🗆	2		Silt, Sa	and	2	
	Brushy \square	Grassy =		4		Grave	el	4	
Cut Section □		Fill Section		6				6	
Taken Through Oil		Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	6" tall cheat	grass and 6" tall tun	nbleweed which	12				12	
	were green i	in color.		14				14	
				16				16	
Submitted By:	ALTAMII	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	3" 2"			Plastic Inde	-	4			
	2"			Specific Gra	avity _				
	1.5"	100		Resistance '	-	51			
	1"	93		Cover		Stabilometer		Expansion l	Pressure
	3/4"	87		Thick	eness _	12.4			
	1/2"	85							
	3/8"	80			Sand Equiva	•			
	No. 4	71			Natural Moi	isture, %			
	No. 10	61			Resistivity				
	No. 16	56		-	oH Factor				
	No. 40	45		1	AASHTO (Classification	A-1-b		
	No. 50	40							
	No. 100	29							
	No. 200	20							
Remarks:									

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-324-11			=					
E.A.:	73475		Job D	Description:	US 50 FR	OM LY 2	0.39 TO LY 2	25.61		
Date Rec'd	6/30/11	<u>-</u>								
Samplers:	Altamiran	o, Rigsby	_	Station	"X2" 1230	0+00		Route	US 50	
McFarren, Wim			_	Location fro		Lt.	140'	Rt.		
Sample No.:	57			County:	LYON					
Sample Type:					Depth (ft)	Bori	ing Description			PSI
RV ■	Sub □		DC 🗆	Other \square	0				0	200
Vegetation:		Trees	Shrubs \square		2		Silt	t	2	
	Brushy \square	Grassy			4		San	d	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shou	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		<u>-</u>	10				10	
Remarks:	6" tall cheat	grass			12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Techniciar	ı III		20				20	
	Sieve Size	% Passing	_		Liquid Limi	it _	22	<u>.</u>		
	3"		_		Plastic Inde	х	4	<u>-</u>		
	2"		_		Specific Gra	avity _		<u>-</u>		
	1.5"		_		Resistance '	Value _	64	_		
	1"		_		Cover		Stabilometer]	Expansion I	Pressure
	3/4"	100	_		Thick	mess _	6.0	<u>.</u> .		
	1/2"	99	_							
	3/8"	99	_		S	Sand Equiva	alent			
	No. 4	95	_		1	Natural Mo	isture, %			
	No. 10	89	_		I	Resistivity				
	No. 16	83	_		ŗ	H Factor				
	No. 40	66	_		A	AASHTO (Classification	A-2-4(0)		
	No. 50	59	_							
	No. 100	46	_							
	No. 200	35	_							
-										
Remarks:										
_										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-325-11			_					
E.A.:	73475	•	Job D	Description:	US 50 FR	OM LY 2	0.39 TO LY 2	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby	_	Station	"X2" 1295	5+00		Route	<u>US 50</u>	
Wimer, McFarr			_	Location from		Lt.	65'	Rt	•	
Sample No.:	58			County:	LYON					
Sample Type:					Depth (ft)	Bori	ng Description			PSI
RV ■	Sub 🗆		DC 🗆	Other \square	0				0	150
Vegetation:		Trees	Shrubs \square		2		Silt, Sa	and	2	
	Brushy \square	Grassy			4		Grav	el	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shou	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:	6" tall cheat	grass			12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing			Liquid Limi	it	22			
	3"				Plastic Inde	-	5			
	2"		_		Specific Gra	-				
	1.5"	100	_		Resistance '	_	79			
	1"	95	_		Cover	-	Stabilometer		Expansion I	Pressure
	3/4"	93	_		Thick		3.5		F	
	1/2"	83	_			-				
	3/8"	77	_		S	Sand Equiva	alent			
	No. 4	63	_			Natural Moi				
	No. 10	50	_			Resistivity				
	No. 16	45	_			H Factor				
	No. 40	33	_		-		Classification	A-1-b		
	No. 50	28	_							
	No. 100	19	_							
	No. 200	13	_							
			=							
Remarks:										
_										
_										

Date Reported: Lab No.:	8/24/11 S11-03, R	V-326-11			n: US 50 FROM LY 20.39 TO LY 25.61					
E.A.:	73475		Job De	scription:	<u>US 50 FRO</u>	OM LY 2	0.39 TO LY 2	25.61		
Date Rec'd Samplers:	6/23/11 Altamiran	o Rigshy	•	Station	"X2" 1285	5±00		Route	US 50	
Sumplers.	7 Artanini an	o, Rigory		Location fro		Lt.	50'	R		
Sample No.:	59	_		County:	LYON			•		
Sample Type:					Depth (ft)	Box	ring Description			PSI
RV ■	Sub □	Chem □	$DC \square$	Other □	0				0	250
Vegetation:	None □	Trees □ Sh	rubs 🗆		2		Silt, S	and	2	
	Brushy □	Grassy 			4		Grav	rel	4	
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoulder	. 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Drill hole w	as drilled on top of	cut, on the	edge	12				12	
	of cut. 6" ta	all cheat grass.			14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineeri	ng Technician II	I		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 87 83			Liquid Limi Plastic Index Specific Gra Resistance V Cover	x avity Value ness	35 20 25 Stabilometer 20.7		Expansion l	Pressure
	3/8"	77			S	and Equiv	alent			
	No. 4	59				Natural Mo	isture, %			
	No. 10	46				Resistivity				
	No. 16	41			-	H Factor				
	No. 40	33			A	AASHTO	Classification	A-2-6(0)		
	No. 50	28								
	No. 100	21								
	No. 200	<u>17</u>								
Remarks:										
·										

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-327-11			_					
E.A.:	73475		Job I	Description:	US 50 FR	OM LY 2	0.39 TO LY	25.61		
Date Rec'd	6/23/11									
Samplers:	Altamiran	o, Rigsby		Station	"X2" 127	5+00		Route	US 50	
Wimer, McFarr		_		Location fro	om CL (ft)	Lt.	70'	_ R	t	
Sample No.:	60			County:	LYON					
Sample Type:					Depth (ft)	Bor	ing Description		Ţ	PSI
RV ■	Sub □	Chem □	DC 🗆	Other -	<u> </u>				0	150
Vegetation:	None □	Trees □ S	Shrubs \square		2		Silt, S	and	2	
	Brushy \square	Grassy =			4		Gravel, C	Cobbles	4	
Cut Section □		Fill Section]		6				6	
Taken Through Oi	l 🗆	Taken on Should	er =		8				8	
Gravel Depth (in)	-	Oil Depth (in)		_	10				10	
Remarks:	6" tall cheat	grass. Cobbles the	hroughout h	ole.	12				12	
					14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineeri	ng Technician l	II		20				20	
	a. a.	0/ P :			Y * . * 1 Y *	٠,	20			
	Sieve Size	% Passing			Liquid Lim	•	29	_		
	3"				Plastic Inde	•	10	_		
	2"	100			Specific Gr	-	20	_		
	1.5"	100			Resistance	-	30	_		
	1"	99			Cover		Stabilometer		Expansion I	ressure
	3/4"	87			Thick	kness	19.1	_		
	1/2"	78				0. 1E. 1	1 4			
	3/8"	75				Sand Equiv				
	No. 4	64				Natural Mo	isture, %			
	No. 10	54				Resistivity				
	No. 16	50			-	oH Factor	Cl. 'C' '	A 2 4(0)		
	No. 40	41			1	AASHIO	Classification	A-2-4(0))	
	No. 50	37								
	No. 100	27								
	No. 200	21								
Damarira:										
Remarks:										

EAR: 73475 Job Description: US 50 FROM LY 20.39 TO LY 25.61 Date Rec'd 6/23/11 Station "X2" 1265+00 Route US 50 McFarren, Wimer	Date Reported:	8/24/11							
Date Rec'd Altamirano, Rigsby Station "X2" 1265+00 Route US 50 Record To County TUNO Tuno To County Tuno Tuno	Lab No.:		V-328-11		_				
Samplers Altamirano, Rigsby Station "X2" 1265+00 Route US 50				Job Description:	US 50 FROM	LY 20.39 TO) LY 25.61		
McFarren, Wimer Location from CL (ft)			D. 1	~ .	W770W 404F 0	0		**************************************	
Sample No: 61	=		o, Rigsby						
Sample Type: Deph (ft) Boring Description PSI	•					Lt. <u>60</u>	<u>'</u>	Rt	
No		61		County:					
Vegetation: None Trees Shrubs		~	~. □	~ 🗆	,	Boring Descrip	otion		
Brushy Grassy 4					_				150
Cut Section □ Fill Section □ 6- 6- 6- Taken Through Oil □ Taken on Shoulder ■ 8- 8- Gravel Depth (in) □ Oil Depth (in) □ 10- 10- Remarks: 12° tall cheat grass. Cobbles throughout. □ 12- 14- 14- 16 16- 16- 16- Submitted By: Ittle: □ ALTAMIRANO □ 18- 18- Title: □ Engineering Technician III □ 20- 20- 1seve Size □ % Passing □ Liquid Limit □ 25 2° □ Specific Gravity □ Resistance Value □ 68 1' □ 99 Cover □ Stabilometer □ Expansion Pressure □ 3/4° □ 96 Thickness □ 7.0 Expansion Pressure □ 1/2° □ 82 Sand Equivalent □ No. 10 Expansion Pressure □ No. 10 □ 51 Resistivity □ □ Phase in □ AASHTO Classification □ A-1-b No. 100 □ 23 No. 100 □ 23 AASHTO Classification □ A-1-b </td <td>Vegetation:</td> <td></td> <td></td> <td>s ⊔</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Vegetation:			s ⊔					
Taken Through Oil ☐ Taken on Shoulder ■ 8- 8- 6 Gravel Depth (in) ☐ Oil Depth (in) ☐ 10- 10- 10- 10- 10- 10- 10- 10- 10- 10-			•			Gr	avel, Cobbles		
Gravel Depth (in)				_					
12" tall cheat grass. Cobbles throughout. 12- 14- 14- 14- 14- 16- 18-	=								
14 16 16 16 16 18 18 20 18 20 18 20	•								
Submitted By: ALTAMIRANO	Remarks:	12" tall chea	at grass. Cobbles throu	ighout.	-				
Sieve Size % Passing Liquid Limit 25 20					_				
Sieve Size % Passing Liquid Limit 25			2.110		-				
Sieve Size % Passing Liquid Limit 25 3" Plastic Index NP 2" Specific Gravity — 1.5" 100 Resistance Value 68 1" 99 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 7.0 1/2" 82 Sand Equivalent No. 4 62 Natural Moisture, % No. 10 51 Resistivity No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 100 23 No. 100 23 No. 200 16 No. 200 16	-								
Plastic Index NP	Title:	Engineerii	ng Technician III		_ 20			20	
Plastic Index NP									
2" Specific Gravity Resistance Value 68 Expansion Pressure 1" 99 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 7.0 1/2" 82 3/8" 78 Sand Equivalent No. 4 62 Natural Moisture, % No. 10 51 Resistivity No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 50 32 No. 100 23 No. 200 16		Sieve Size	% Passing		Liquid Limit	25	<u> </u>		
1.5" 100 Resistance Value 68 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 7.0		3"			Plastic Index	N	<u>P</u>		
1" 99 Cover Stabilometer Expansion Pressure 3/4" 96 Thickness 7.0 1/2" 82 Sand Equivalent No. 4 62 Natural Moisture, % No. 10 51 Resistivity No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 50 32 No. 100 23 No. 200 16		2"			Specific Gravity				
3/4" 96 1/2" 82 3/8" 78 No. 4 62 No. 10 51 No. 16 46 No. 40 37 No. 50 32 No. 100 23 No. 200 16 Thickness 7.0 Thickness Sand Equivalent Natural Moisture, % Resistivity PH Factor AASHTO Classification A-1-b Thickness 7.0 Thickness 7.0 Thickness Thic		1.5"	100		Resistance Valu	ie <u>68</u>	3		
1/2" 82 3/8" 78 No. 4 62 No. 10 51 No. 16 46 No. 40 37 No. 50 32 No. 100 23 No. 200 16 Sand Equivalent Natural Moisture, % Resistivity pH Factor AASHTO Classification A-1-b		1"	99		Cover	Stabilon	neter	Expansion I	Pressure
3/8" 78 No. 4 62 No. 10 51 No. 16 46 No. 40 37 No. 50 32 No. 100 23 No. 200 16 Sand Equivalent Natural Moisture, % Resistivity pH Factor AASHTO Classification A-1-b		3/4"	96		Thickness	s	0		
No. 4 62 Natural Moisture, % No. 10 51 Resistivity No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 50 32 No. 100 23 No. 200 16		1/2"	82						
No. 10 51 Resistivity No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 50 32 No. 100 23 No. 200 16		3/8"	78		Sand	l Equivalent			
No. 16 46 pH Factor No. 40 37 AASHTO Classification A-1-b No. 50 32 No. 100 23 No. 200 16		No. 4	62		Natu	ral Moisture, %			
No. 40 37 No. 50 32 No. 100 23 No. 200 16		No. 10	51		Resi	stivity			
No. 50 32 No. 100 23 No. 200 16		No. 16	46		pH F	actor			
No. 100 23 No. 200 16		No. 40	37		AAS	HTO Classific	ation A-1-	b	
No. 200 16		No. 50	32						
		No. 100	23						
Remarks:		No. 200	16						
Remarks:									
Remarks:									
	Remarks:								

Date Reported:	8/24/11							
Lab No.:	S11-03, R	V-329-11	*		1 17 00 00 TO 1 1	7.05.61		
E.A.:	73475		Job Description:	US 50 FROM	LY 20.39 TO LY	25.61		
Date Rec'd	6/23/11	D: 1	~ .	U\$70U 1055 00	`		TIC FO	
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1255+00			US 50	
McFarren, Wim			Location fro		Lt. 40'	_ Rt.		
Sample No.:	62		County:	LYON				
Sample Type:	_	_		Depth (ft)	Boring Description		1	PSI
RV ■	Sub □		C Other C	-			0	150
Vegetation:		Trees Shrubs	; 	2		Sand	2	
	Brushy	·		_ 4	Gravel.	Cobbles	4	
Cut Section		Fill Section □		6			6	
Taken Through Oil		Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:	12" tall chea	at grass cobbles through	out.	12			12	
				14			14	
				16			16	
Submitted By:	ALTAMII	RANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10	99 98 88 85 73 63		Natur	e 44 Stabilometer		Expansion I	Pressure
	No. 16	60		pH F	•			
	No. 40	53		•	HTO Classification	A-2-4(0)		
	No. 50	48		11110		11 2 1(0)		
	No. 100	37						
	No. 200	25						
Remarks:								

Date Reported: Lab No.:	8/24/11 S11-03, R	- XV-330-11		_				
E.A.:	73475	Job	Description:	US 50 FROM	LY 20.39 TO	LY 25.61		
Date Rec'd	6/23/11	_						
Samplers:	Altamira	no, Rigsby	Station	"X2" 1245+00)	R	oute US 50	
Sample No.:	63		Location fro	om CL (ft) LYON	Lt. 45'		Rt	
Sample Type:				Depth (ft)	Boring Description	on		PSI
RV ■	Sub □	☐ Chem ☐ DC ☐	Other □		8 <u>F</u>	-	0	150
Vegetation:	None	Trees □ Shrubs □		2	S	ilt, Sand	2	
	Brushy			4		Gravel	4	
Cut Section		Fill Section		6			6	
Taken Through Oil	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:				12			12	
				14			14	
				16			16	
Submitted By:	ALTAMI	RANO		18			18	
Title:	Engineer	ing Technician III		20			20	
	Sieve Size	% Passing		Liquid Limit	26			
	3"			Plastic Index	6			
	2"			Specific Gravity				
	1.5"	100		Resistance Value	e <u>51</u>			
	1"	98		Cover	Stabilome	ter	Expansion l	Pressure
	3/4"	94		Thickness	12.4			
	1/2"	77						
	3/8"	72		Sand	Equivalent			
	No. 4	60		Natur	ral Moisture, %			
	No. 10	51		Resis	tivity			
	No. 16	47		pH Fa	actor			
	No. 40	39		AASI	HTO Classificat	ion A-1	-b	
	No. 50	33						
	No. 100	23						
	No. 200	15						
Remarks:								
	_							

Date Reported: Lab No.:	8/24/11 S11-03, R	V-331-11		_					
E.A.:	73475	J.	ob Description:	US 50 FROM	1 LY 20.3	39 TO LY 2	25.61		
Date Rec'd	6/23/11	-							
Samplers:	Altamirar	10, Rigsby	Station	"X2" 1235+0			_	US 50	
Sample No.:	64		Location fro	om CL (ft) LYON	Lt	30'	R	t	
Sample Type:				Depth (ft)	Boring	Description			PSI
RV ■	Sub □	Chem □ DC	□ Other □		<u> </u>			0	150
Vegetation:	None	Trees Shrubs		2		Silt, S	and	2	
	Brushy \square	Grassy		4		Gravel, L	t Clay	4	
Cut Section	-	Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Gravit Resistance Val		22 3 70	- - -		
	1"			Cover	Sta	abilometer	-	Expansion I	Pressure
	3/4"	100		Thicknes	ss	6.4	_		
	1/2"	99							
	3/8"	95		Sand	d Equivale	nt			
	No. 4	87		Natı	ural Moistı	ure, %			
	No. 10	78		Resi	istivity				
	No. 16	72		pH l	Factor				
	No. 40	58		AAS	SHTO Cla	assification	A-2-4(0))	
	No. 50	51							
	No. 100	37							
	No. 200	25							
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, R	- V-332-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY 2	20.39 TO LY	25.61		
Date Rec'd	6/23/11	_								
Samplers:	Wimer, R	Rigsby		Station	"X2" 1225			_	US 50	
Sample No.:	65			Location fro	om CL (ft) LYON	Lt.	40'	_ R	t	
Sample Type:				·	Depth (ft)	Во	ring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other □			•		0	150
Vegetation:	None	Trees □ S	hrubs 🗆		2		Silt, S	and	2	
	Brushy \square	Grassy □			4		Grav	/el	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	l 🗆	Taken on Shoulde	er \blacksquare		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:				_	12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ing Technician I	II		20				20	
	3" 2" 1.5" 1"				Liquid Limit Plastic Inde Specific Gra Resistance Y Cover	avity Value	NP 76 Stabilometer	- - -	Expansion 1	Pressure
	3/4"	100			Thick	cness	4.5	_		
	1/2" 3/8" No. 4	94 91 82				Sand Equiv				
	No. 10	71			I	Resistivity				
	No. 16	65			ŗ	H Factor				
	No. 40	52			A	AASHTO	Classification	A-2-4(0))	
	No. 50	45								
	No. 100	27								
	No. 200	16								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, R	V-333-11		_			
E.A.:	73475		Job Description:	US 50 FROM I	LY 20.39 TO LY	25.61	
Date Rec'd	6/23/11					- 770 70	
Samplers:	Altamiran	o, Rigsby	Station	"X2" 1215+00	- 201	Route US 50	
Sample No.:	66		Location fr County:	rom CL (ft) LYON	Lt. <u>30'</u>	Rt	-
Sample Type:			county.	Depth (ft)	Boring Description		PSI
RV ■	Sub □	Chem □	DC Other		Boring Beseription	0	150
Vegetation:			bs 🗆	2	Silt, S		
S		Grassy		4	Gra		
Cut Section		Fill Section		6		6	
Taken Through Oil		Taken on Shoulder		8		8	
Gravel Depth (in)		Oil Depth (in)		10		10	
Remarks:				12		12	
				14		14	
				16		16	
Submitted By:	ALTAMI	RANO		18		18	
Title:	Engineeri	ng Technician III		20		20	
	Sieve Size 3" 2"	% Passing		Liquid Limit Plastic Index Specific Gravity	22 3	-	
	1.5"			Resistance Value	76	-	
	1"			Cover	Stabilometer	– Expansion	Pressure
	3/4"	100		Thickness	4.5	Expansion	Tressure
	1/2"	92		TimeRitess			
	3/8"	90		Sand F	Equivalent		
	No. 4	81			1 Moisture, %		•
	No. 10	71		Resisti		-	=
	No. 16	64		pH Fac	•	-	•
	No. 40	51		•	TO Classification	A-2-4(0)	_
	No. 50	44					
	No. 100	29					
	No. 200	19					
Remarks:							

	Date Reported: Lab No.:	8/24/11 S11-03, R	/ <u>24/11</u> 11-03, RV-334-11									
Sampler No.: Sample No.:	E.A.:	73475	Jol	b Description:	US 50 FROM	M LY 20	.39 TO LY 2	5.61				
Sample No.: 67 County: LVON Sample No.: 67 County: LVON Sample No.: 67 County: LVON Sample No.: 68 Sub Chem DC Other O- Other O- Other O- Sitt, Sand Q- Sitt, Sand	Date Rec'd											
Sample No.: 67	Samplers:	Wimer, R	igsby		-				_			
No	Sample No.:	67				Lt	30'	R	t			
No	Sample Type:				Depth (ft)	Borin	g Description			PSI		
Brushy Grassy Grassy Gravel 4- Gravel 4-		Sub □	Chem □ DC	□ Other □	0				0	150		
Cut Section Fill Section 6- 6- 6- 6- 6- 6- 7- 7- 7- 7- 8- 8- 8- 6- 10- 10- 10- 10- 10- 10- 12- 12- 12- 12- 12- 14- 14- 14- 14- 14- 14- 14- 16- 16- 16- 16- 16- 16- 18-	Vegetation:	None	Trees □ Shrubs □		2		Silt, Sa	nd	2			
Taken Through Oil ☐ Taken on Shoulder ■ 8-		Brushy \square	Grassy □		4		Grave	1	4			
Gravel Depth (in)	Cut Section		Fill Section		6				6			
Remarks:	Taken Through Oil	1 🗆	Taken on Shoulder		8				8			
14 16 16 16 18	Gravel Depth (in)		Oil Depth (in)		10				10			
Sieve Size % Passing Liquid Limit 19	Remarks:				12				12			
Siewe Size % Passing Liquid Limit 19					14				14			
Sieve Size % Passing Liquid Limit 19 Plastic Index NP					16				16			
Sieve Size % Passing Liquid Limit 19 3" Plastic Index NP 2" Specific Gravity Resistance Value 73 1" Cover Stabilometer Expansion Press 3/4" 100 Thickness 5.4 1/2" 90 Sand Equivalent No. 10 No. 4 79 Natural Moisture, % Resistivity No. 10 68 Resistivity PH Factor No. 40 46 AASHTO Classification A-1-b No. 50 39 No. 100 25 No. 200 15	Submitted By:	ALTAMI	RANO		18				18			
Plastic Index NP Specific Gravity	Title:	Engineeri	ng Technician III		20				20			
No. 4 79 Natural Moisture, % No. 10 68 Resistivity No. 16 61 pH Factor No. 40 46 AASHTO Classification A-1-b No. 50 39 No. 100 25 No. 200 15		3" 2" 1.5" 1" 3/4" 1/2"	100		Plastic Index Specific Gravi Resistance Val Cover	lue S	NP 73 stabilometer		Expansion l	Pressure		
No. 10 68 Resistivity No. 16 61 pH Factor No. 40 46 AASHTO Classification No. 50 39 No. 100 25 No. 200 15		3/8"			San	nd Equiva	lent _					
No. 16 61 pH Factor No. 40 46 AASHTO Classification A-1-b No. 50 39 No. 100 25 No. 200 15							sture, %					
No. 40 46 No. 50 39 No. 100 25 No. 200 15		No. 10				•	_					
No. 50 39 No. 100 25 No. 200 15		No. 16			-		_					
No. 100 25 No. 200 15		No. 40			AA	SHTO C	lassification _	A-1-b				
No. 200 15		No. 50	39									
		No. 100	25									
Remarks:		No. 200	15									
	Remarks:											

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-351-11			_					
E.A.:	73475		Job Desc	cription:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/30/11									
Samplers:	Wimer, R	igsby	St	ation	"X2" 1202	2+00		Route	e <u>US 50</u>	
Altamirano, Rig	gsby		Lo	ocation fro		Lt.	60'	R	t	
Sample No.:	68		Co	ounty:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □	Chem □	DC \square	Other \square	0		Oil &	Base	0	200
Vegetation:	None	Trees □ S	hrubs \square		2		Silt S	and	2	
	Brushy \square	Grassy □			4				4	
Cut Section		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulde	er 🗆		8				8	
Gravel Depth (in)	3''	Oil Depth (in)	1 1/2"		10				10	
Remarks:	Drill hole w	as drilled 9' RT of	CL of Stageco	oach	12				12	
	Drive. Dril	l hle was moved 10	0' south due to	utility	14				14	
	conflict.				16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician I	II		20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 99			Liquid Lim Plastic Inde Specific Gra Resistance Cover Thick	x avity Value	24 9 69 Stabilometer 6.7	- - - -	Expansion I	Pressure
	3/8"	97				Sand Equi	volent			
	No. 4	93				-	oisture, %			
	No. 10	87				Resistivity				
	No. 16	83				oH Factor				
	No. 40	70			-		Classification	A-2-4(0	<u> </u>	
	No. 50	61			-		C14651110411011	11 2 1(0	<u>/</u>	
	No. 100	43								
	No. 200	30								
Remarks:										

Date Reported:	8/24/11	i						
Lab No.:	S11-03, R	V-352-11						
E.A.:	73475		Job Descripti	ion: US 50 F	ROM LY	20.39 TO LY	25.61	
Date Rec'd	6/30/11							
Samplers:	Wimer, R	igsby	Station	" X2" 1 2	202+00		Route US 50)
Altamirano, Rig	gsby		Location	on from CL (ft)	L	t. <u>60'</u>	Rt	
Sample No.:	68A		County	y: LYON				
Sample Type:				Depth (ft)		Boring Description		PSI
RV ■	Sub □	Chem □	DC □ Oth	her \square 0-				0 200
Vegetation:	None	Trees □ S	hrubs \square	2-	-			2
	Brushy \square	Grassy □		4-		Silt S	and	4
Cut Section □		Fill Section		6-				6
Taken Through Oi	1	Taken on Shoulde	er 🗆	8-				8
Gravel Depth (in)	3''	Oil Depth (in)	1 1/2"	10-]	10
Remarks:	Drill hole w	as drilled 9' RT of	CL of Stagecoach	12-]	12
	Drive. Dril	l hle was moved 10	O' south due to utili	<u>ty</u> 14-]	14
	conflict.			16-]	16
Submitted By:	ALTAMI	RANO		18-]	18
Title:	Engineeri	ng Technician I	П	20-			2	20
	Sieve Size 3" 2" 1.5" 1" 3/4"	100		Liquid L Plastic In Specific Resistand Cover Th	ndex Gravity	23 5 69 Stabilometer 6.7	- - - Expans	ion Pressure
	3/8"	98 97			Sand Ear	vivolont		
	No. 4	92			Sand Equ	Moisture, %	-	
	No. 10	83			Resistivi			
	No. 16	77			pH Facto	•		
	No. 40	61			•	O Classification	A-2-4(0)	
	No. 50	55			712 15111	o Classification	11 2 1(0)	
	No. 100	42						
	No. 200	31						
Remarks:								

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-353-11			-					
E.A.:	73475	-	Job D	Description:	US 50 FR	OM LY 2	20.39 TO LY	25.61		
Date Rec'd	6/30/11	-								
Samplers:	Wimer, R	igsby	_	Station	"X2" 1195	5+00		Route	US 50	
Altamirano, Rig			_	Location fro		Lt.	35'	R	t	
Sample No.:	69			County:	LYON					
Sample Type:					Depth (ft)	Box	ring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	0		Silt S	and	0	200
Vegetation:		Trees	Shrubs \square		2		Very Very l		2	
	Brushy \square	-			4		Very Lt	Clay	4	
Cut Section					6				6	
Taken Through Oil		Taken on Shoul	lder		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician	III		20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10	100 97 97 97 97 93 87	• • • • • •		N F	ex avity Value kness Sand Equiv Vatural Mc Resistivity		-	Expansion I	Pressure
	No. 16	84	-		-	oH Factor				
	No. 40	76 72	=		A	AASHTO	Classification	A-4(1)		
	No. 50	72	-							
	No. 100	59	=							
	No. 200	46	=							
Remarks:										

Date Reported:	8/24/11	EV 054 11							
Lab No.:	S11-03, R			LIC 50 EDO	N	20 TO 1 V 2)		
E.A.:	73475		ob Description:	US 50 FRO	NILY ZU	.39 TO LY 2	25.01		
Date Rec'd	6/30/11 McEarran	Dolon	C4-4:	!! V 2!! 1100.	00		D	TIC FO	
Samplers:	McFarren	ı, Baker	Station	"X2" 1190+		201	•	<u>US 50</u>	
Altamirano	70		Location fro	LYON	Lt	30'	R	t	
Sample No.:	70		County:		ъ.	Б			DGI
Sample Type:	C1. \Box	Chem □ DC	. П. Оф	Depth (ft)	Borin	g Description		0	PSI 150
RV -	Sub Name		Other □	_		Silt Sa	1	0	150
Vegetation:	None ■ Brushy □		Ц	2				2	
Cut Section		·		- 4		Very Very I	Li Gravei	4	
Taken Through Oil		_		6 8				6 8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:		Oli Depui (iii)		12				10	
Kemarks.				- 12 14				14	
				- 16				16	
Submitted By:	ALTAMI	DANO		18				18	
Title:	-	ng Technician III		20				20	
	Sieve Size	% Passing		Liquid Limit		27			
	3"	<u> </u>		Plastic Index	_	9	•		
	2"			Specific Grav	rity	·	•		
	1.5"			Resistance Va		61	•		
	1"			Cover	S	tabilometer	•	Expansion I	Pressure
	3/4"	100		Thickne	ess	9.2		•	
	1/2"	96			_				
	3/8"	94		Sar	nd Equival	ent			
	No. 4	91		Na	utural Mois	ture, %			
	No. 10	85		Re	esistivity				
	No. 16	80		pН	I Factor				
	No. 40	68		AA	ASHTO C	lassification	A-4(0)		
	No. 50	62							
	No. 100	50							
	No. 200	40							
Remarks:									
_									

Date Reported:	8/24/11	<u>-</u>								
Lab No.:	S11-03, R	V-355-11			_					
E.A.:	73475	_	Job D	Description:	US 50 FR	OM LY 20	0.39 TO LY 2	25.61		
Date Rec'd	6/30/11	_								
Samplers:	McFarrer	ı, Baker		Station	"X2" 1180	0+00		Route	US 50	
Altamirano				Location fro		Lt.	30'	Rt.		
Sample No.:	71			County:	LYON					
Sample Type:					Depth (ft)	Bori	ng Description			PSI
RV ■	Sub □		DC 🗆	Other \square	0				0	150
Vegetation:			Shrubs		2		Sil		2	
	Brushy \square	-			_ 4		San	d	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Should	ler =		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician	<u>III </u>		20				20	
	Sieve Size	% Passing			Liquid Limi	it _	18	_		
	3"				Plastic Inde	x	3	_		
	2"				Specific Gra	avity _		_		
	1.5"				Resistance '	Value _	64	_		
	1"	100			Cover	;	Stabilometer]	Expansion I	Pressure
	3/4"	91			Thick	mess _	8.3	<u>-</u> .		
	1/2"	90								
	3/8"	89			S	Sand Equiva	alent			
	No. 4	81			1	Natural Moi	sture, %			
	No. 10	73			F	Resistivity				
	No. 16	68			ŗ	H Factor				
	No. 40	53			A	AASHTO (Classification	A-2-4(0)		
	No. 50	45								
	No. 100	28								
	No. 200	18								
Remarks:										

Date Reported: Lab No.: E.A.:	8/24/11 S11-03, R 73475	- V-356-11	Ioh D	Description:	- - IIS 50 FE	OM I V	20.39 TO L	V 25 I	61		
Date Rec'd	6/30/11	-	100 D	escription.	03 30 FF	CONTLI	20.37 TO L	1 23.	<u> </u>		
Samplers:	McFarrer	- 1, Baker		Station	"X2" 117	70+00			Route US	50	
Altamirano				Location fro		Lt	. 35'		Rt.		
Sample No.:	72			County:	LYON						
Sample Type:					Depth (ft)	F	Boring Description				PSI
RV ■	Sub □	l Chem □	DC 🗆	Other \Box	0					0	100
Vegetation:	None	Trees □ Shi	rubs 🗆		2		;	Silt		2	
	Brushy \square	Grassy			_ 4		S	and		4	
Cut Section □		Fill Section			6					6	
Taken Through Oi	l 🗆	Taken on Shoulder			8					8	
Gravel Depth (in)		Oil Depth (in)		=	10					10	
Remarks:					12					12	
					14					14	
					16					16	
Submitted By:	ALTAMI	RANO			18					18	
Title:	Engineeri	ng Technician III			20					20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 95			Liquid Lin Plastic Ind Specific G Resistance Cover	lex ravity	19 3 72 Stabilometer 5.7		Expa	ansion F	Pressure
	3/8"	91				Sand Equ	ivalent				
	No. 4	84				_	Ioisture, %				
	No. 10	77				Resistivit					
	No. 16	72				pH Factor	•				
	No. 40	56				-	Classification	n —	-2-4(0)		
	No. 50	49				11110111			(0)		
	No. 100	34									
	No. 200	23									
Remarks:											

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-357-11								
E.A.:	73475		Job Descript	tion: US:	50 FROM 1	LY 20.	.39 TO LY 2	25.61		
Date Rec'd	6/30/11								*** ***	
Samplers:	McFarren	, Baker	Statio		" 1169+25			<u>.</u>	US 50	
Altamirano				ion from CL		Lt	155'	R	t	
Sample No.:	73		Count							
Sample Type:	_	_	_		th (ft)	Borin	g Description		I	PSI
RV ■	Sub □			ther \square	0				0	150
Vegetation:			rubs \square		2		Silt		2	
	Brushy				4		Sand	1	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Drill hole w	as drilled 12' Rt of	CL of Cheyene		12				12	
	Trail on the	E.O.P.			14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:	Engineeri	ng Technician III	[20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4	100 99 98 93		Plast Spec	Thickness Sand I Natura	S Equival	17 NP 77 tabilometer 3.0 lent ture, %		Expansion l	Pressure
	No. 10	86			Resist	•				
	No. 16	80			pH Fa					
	No. 40	58			AASH	ITO C	lassification	A-2-4(0)		
	No. 50	47								
	No. 100	27								
	No. 200	17								
Remarks:										

Date Reported: Lab No.:	8/24/11 S11-03, RV	V-358-11							
E.A.:	73475		ob Description:	US 50 FRO	M LY 20	.39 TO LY 2	5.61		
Date Rec'd	6/30/11								
Samplers:	McFarren	, Baker	Station	"X2" 1165+	-00		Route	US 50	
Altamirano			Location fro	om CL (ft)	Lt.	155'	Rt.		
Sample No.:	74		County:	LYON					
Sample Type:				Depth (ft)	Borir	ng Description			PSI
RV ■	Sub □	Chem □ DC	Other □	0				0	100
Vegetation:	None □	Trees □ Shrubs		2		Silt		2	
	Brushy \square	Grassy 		4		Sano	1	4	
Cut Section □		Fill Section		6				6	
Taken Through Oi	l 🗆	Taken on Shoulder	-	8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	12" tall chea	at grass		12				12	
				14				14	
				16				16	
Submitted By:	ALTAMII	RANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	3" 2" 1.5" 1" 3/4"	% Passing		Liquid Limit Plastic Index Specific Grav Resistance Va Cover Thickne	alue S	19 2 72 Stabilometer 4.2		Expansion I	Pressure
	1/2"	99							
	3/8"	98		Sa	nd Equiva	lent			
	No. 4	96		Na	atural Mois	sture, %			
	No. 10	94		Re	esistivity				
	No. 16	92		pН	I Factor				
	No. 40	78		AA	ASHTO C	Classification	A-2-4(0)		
	No. 50	66							
	No. 100	40							
	No. 200	22							
Remarks:									

Lab No.: S11-03, RV-359-11 E.A.: 73475 Job Description: US 50 FROM LY 20.39 TO LY 25.61 Date Rec'd 6/30/11 Station "X2" 1160+00 Route US 50 Altamirano Location from CL (fit) Lt. 70' Rt. PSI Sample No.: 75 County: LYON PSI RV ■ Sub □ Chem □ DC □ Other □ 0- Other □ 0- Other □ 0- Shrubs □ 2- Silt Sult 2- Silt	Date Reported:	8/24/11									
Date Rec'd 6/30/1 Samplers: McFarren, Rigsby Station "X2" 1160+00 Route US 50 Altamirano Location from CL (ft) Lt. 70' Rt. Sout PSI Sample No.: 75 County: LyYON PSI RV ■ Sub	Lab No.:		V-359-11			_					
Samplers: McFarren, Rigsby Station "X2" 1160+00 Route US 50 Altamirano Location from CL (ft) Lt. 70' Rt. Sample No.: 75 County: LYON Sample Type: Depth (ft) Boring Description PSI RV ■ Sub □ Chem □ DC □ Other □ O	E.A.:	73475	<u>.</u>	Job I	Description:	US 50 FRO	OM LY 2	0.39 TO LY	25.61		
Altamirano Location from CL (ft) Lt. 70' Rt. Sample No.: 75 County: LYON Depth (ft) Boring Description PSI RV ■ Sub Chem DC Other O O 150 Vegetation: None Trees Shrubs O 4 Sailt 2 Brushy Grassy O 6 4 Sand 4 Cut Section Fill Section Brushy Brushy	Date Rec'd		•								
Sample No.: 75 County: LYON Sample Type: Depth (ft) Boring Description PSI RV ■ Sub Chem DC Other O- O- 150 Vegetation: None Trees Shrubs 2 Silt 2 Silt 2 Brushy Grassy 4 Sand 4 Sand 4 Cut Section Fill Section 6 6 8 8 Taken Through Oil Taken on Shoulder 8 8 8 Gravel Depth (in) Oil Depth (in) 10 10 12 Remarks: 12" tall cheat grass 12 14 14 Submitted By: ALTAMIRANO 18 18	Samplers:	McFarren	, Rigsby		Station	"X2" 1160)+00		Route	US 50	
Sample Type: Sub Chem DC Other 0 Boring Description PSI RV ■ Sub Chem DC Other 0 0 150 Vegetation: None Trees Shrubs 2 Silt 2 Brushy Grassy 4 Sand 4 Cut Section Fill Section 6 6 6 Taken Through Oil Taken on Shoulder 8 8 Gravel Depth (in) Taken on Shoulder 10 10 Remarks: 12" tall cheat grass 12 14 Lemarks: 12" tall cheat grass 12 14 Submitted By: ALTAMIRANO 18 18							Lt.	70'	Rt.	·	
RV ■ Sub Chem DC Other O	Sample No.:	75			County:	LYON					
Vegetation: None Trees Shrubs 2 Silt 2 Brushy Grassy 4 Sand 4 Cut Section Fill Section 6 6 Taken Through Oil Taken on Shoulder 8 8 Gravel Depth (in) Oil Depth (in) 10 10 Remarks: 12" tall cheat grass 12 14 Id 16 16 Submitted By: ALTAMIRANO 18						Depth (ft)	Bor	ing Description			PSI
Brushy □ Grassy □ 4 Sand 4 Cut Section □ 6 6 6 Taken Through Oil □ Taken on Shoulder □ 8 8 Gravel Depth (in) Oil Depth (in) 10 10 Remarks: 12" tall cheat grass 12 12 14 14 14 Submitted By: ALTAMIRANO 18 18					Other \square	0				0	150
Cut Section Fill Section 6 Taken Through Oil Taken on Shoulder 8 Gravel Depth (in) Oil Depth (in) 10 Remarks: 12" tall cheat grass 12 14 14 Submitted By: ALTAMIRANO 18	Vegetation:			rubs \square		2		Sil	t	2	
Taken Through Oil □ Taken on Shoulder □ 8 Gravel Depth (in) Oil Depth (in) 10 10 Remarks: 12" tall cheat grass 12 14 16 16 16 Submitted By: ALTAMIRANO 18 18		Brushy \square	Grassy			4		San	d	4	
Gravel Depth (in) 10 Remarks: 12" tall cheat grass 12 14 14 Submitted By: ALTAMIRANO 18	Cut Section		Fill Section			6				6	
Remarks: 12" tall cheat grass 12 12 14 14 14 16 16 16 18	Taken Through Oil	l 🗆	Taken on Shoulder			8				8	
14 16 Submitted By: ALTAMIRANO 18 18	Gravel Depth (in)		Oil Depth (in)		_	10				10	
Submitted By: ALTAMIRANO 16 16 18	Remarks:	12" tall che	at grass			12				12	
Submitted By: ALTAMIRANO 18						14				14	
						16				16	
Title: Engineering Technician III 20	Submitted By:	ALTAMI	RANO			18				18	
<u> </u>	Title:	Engineeri	ng Technician III			20				20	
Sieve Size		Sieve Size	% Passing			Liquid Limi	t	21			
3" Plastic Index 5						=	•		-		
2" Specific Gravity							•		-		
1.5" Resistance Value 60		-				_	-	60	_		
1" Cover Stabilometer Expansion Pressure							•		_	Expansion I	Pressure
3/4" Thickness 9.5										r	
1/2" 100			100				•		_		
3/8" 97 Sand Equivalent						S	and Equiv	alent			
No. 4 94 Natural Moisture, %							_				
No. 10 89 Resistivity			_					, , , ,			
No. 16 84 pH Factor							•				
No. 40 69 AASHTO Classification A-2-4(0)						-		Classification	A-2-4(0)		
No. 50 60											
No. 100 38											
No. 200 24											
		110.200									
Remarks:	Remarks:										
	_										

Date Reported: Lab No.:	8/24/11 S11-03, R	_ RV-360-11		_					
E.A.:	73475	Job	Description:	US 50 FRO	M LY 20	0.39 TO LY 2	25.61		
Date Rec'd	6/30/11								
Samplers:	McFarre	n, Rigsby	Station	"X2" 1155+	-00		Route L	JS 50	
Altamirano			Location fro	om CL (ft)	Lt.	150'	Rt.		
Sample No.:	76	-	County:	LYON					
Sample Type:				Depth (ft)	Borii	ng Description			PSI
RV ■	Sub [☐ Chem ☐ DC ☐	Other □	0				0	150
Vegetation:	None	Trees □ Shrubs □]	2		Silt Sa	and	2	
	Brushy \Box	l Grassy □		4		Lt Cl	ay	4	
Cut Section		Fill Section		6				6	
Taken Through Oi	1 🗆	Taken on Shoulder \Box		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:	12" tall che	eat grass		12				12	
				14				14	
				16				16	
Submitted By:	ALTAM	IRANO		18				18	
Title:	Engineer	ing Technician III		20				20	
	Sieve Size 3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Grav Resistance Va	alue	19 2 61 Stabilometer		xpansion F	P raccura
	3/4"	100		Thickne		6.7	122	rpansion r	Tessure
	1/2"	99		THICKIR	_	U. /	· _		
	3/8"	99		Sar	nd Equiva	lant			
	No. 4	95			itural Moi				
	No. 10	92			sistivity	sture, 70			
	No. 16	89			I Factor				
	No. 40	78		•		Classification	A-2-4(0)		
	No. 50	69		111	ыно	iassification	11 2 4(0)		
	No. 100	43							
	No. 200	25							
		<u> </u>							
Remarks:									

Sample No. McFarren, Rigsby	Date Reported: Lab No.:	8/24/11 S11-03, R	- XV-361-11	-	_				
Samplers: McFarren, Rigsby Station "X2" 1150+00 Route US 50 Altamirano	E.A.:	73475	Job	Description:	US 50 FROM	1 LY 20	0.39 TO LY 2	25.61	
Location True Location True Location Locati	Date Rec'd	6/30/11	<u>-</u>						
Sample No: 77	Samplers:	McFarre	n, Rigsby	Station	"X2" 1150+0	00		Route US 50)
Sample Type: RV	Altamirano			Location fro	om CL (ft)	Lt.	75'	Rt	
Sub Chem DC Other O- O- Other O- O- O- O- O- O- O- O	Sample No.:	77		County:	LYON				
Vegetation: None Trees Shrubs	Sample Type:				Depth (ft)	Borii	ng Description		PSI
Brushy Grassy 4-	RV ■	Sub [Chem □ DC □	□ Other □	0				0 100
Fill Section	Vegetation:	None □	Trees □ Shrubs □		2		Silt		2
Taken Through O		Brushy	Grassy 		4		Sano	d	4
Caravel Depth (in)	Cut Section □		Fill Section		6				6
Commarks:	Taken Through Oil	1 🗆	Taken on Shoulder \Box		8				8
14 16 16 16 18 18 20	Gravel Depth (in)		Oil Depth (in)		10				10
16- 16- 18- 18- 18- 20-	Remarks:	6" tall chea	t grass		12				12
Sieve Size % Passing Liquid Limit 20 20					14				14
Sieve Size % Passing Liquid Limit 20					16				16
Sieve Size % Passing Liquid Limit 20 3" Plastic Index 3 2" Specific Gravity	Submitted By:	ALTAMI	RANO		_ 18				18
Specific Gravity Specific Gravity Resistance Value G7	Title:	Engineer	ing Technician III		20			2	20
Specific Gravity Specific Gravity Resistance Value G7									
2" Resistance Value 67		Sieve Size	% Passing		Liquid Limit		20		
1.5" Resistance Value 67 Cover Stabilometer Expansion Pressure 3/4" Thickness 7.3		3"			Plastic Index		3	•	
1" Cover Stabilometer Expansion Pressure 3/4" Thickness 7.3 1/2" 3/8" 100 Sand Equivalent No. 4 99 Natural Moisture, % No. 10 95 Resistivity No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		2"			Specific Gravit	- .y		•	
3/4" Thickness 7.3 1/2" 3/8" 100 Sand Equivalent No. 4 99 Natural Moisture, % No. 10 95 Resistivity No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		1.5"			Resistance Valu	ue _	67	•	
1/2" 3/8" 100 Sand Equivalent No. 4 99 Natural Moisture, % No. 10 95 Resistivity No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		1"			Cover	S	Stabilometer	Expans	ion Pressure
3/8" 100 No. 4 99 No. 10 95 No. 16 93 No. 40 80 No. 50 70 No. 100 42 No. 200 23 Sand Equivalent Natural Moisture, % Resistivity pH Factor A-2-4(0)		3/4"			Thicknes	ss _	7.3		
No. 4 99 Natural Moisture, % No. 10 95 Resistivity No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		1/2"							
No. 10 95 Resistivity No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		3/8"	100		Sano	d Equiva	lent		
No. 16 93 pH Factor No. 40 80 AASHTO Classification A-2-4(0) No. 50 70 No. 100 42 No. 200 23		No. 4	99		Natu	ural Moi	sture, %		
No. 40 80 No. 50 70 No. 100 42 No. 200 23		No. 10	95		Resi	istivity			
No. 50 70 No. 100 42 No. 200 23		No. 16	93		рН І	Factor			
No. 100 42 No. 200 23		No. 40	80		AAS	SHTO C	Classification	A-2-4(0)	
No. 200 23		No. 50	70						
		No. 100	42						
Remarks:		No. 200	23						
Remarks:									
Remarks:									
	Remarks:								

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-362-11			=					
E.A.:	73475		Job I	Description:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/30/11									
Samplers:	McFarren	, Rigsby		Station	"X2" 114	5+00		Route	US 50	
Altamirano				Location fro		Lt.	150	_ Rt.		
Sample No.:	78			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □		DC 🗆	Other \square	0				0	100
Vegetation:			rubs \square		2		Sil	t	2	
	Brushy \square	Grassy			_ 4		San	ıd	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:	4" tall cheat	grass			12				12	
					14				14	
					16				16	
Submitted By:	ALTAMI				18				18	
Title:	Engineeri	ng Technician III			20				20	
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde	ex	3	=		
	2"				Specific Gr	avity		=		
	1.5"				Resistance	Value	40	=		
	1"				Cover		Stabilometer	=	Expansion F	Pressure
	3/4"				Thick	kness	11.6	_		
	1/2"							_		
	3/8"	100			9	Sand Equi	valent			
	No. 4	98]	Natural M	oisture, %			
	No. 10	94]	Resistivity	7			
	No. 16	90			1	oH Factor				
	No. 40	75			1	AASHTO	Classification	A-2-4(0)		
	No. 50	66								
	No. 100	45								
	No. 200	25								
Remarks:										

Date Reported:	8/24/11									
Lab No.:	S11-03, RV	V-363-11								
E.A.:	73475		Job Descrip	otion:	US 50 FR	OM LY	20.39 TO LY	25.61		
Date Rec'd	6/30/11	D. .		-		0 ==			**************************************	
Samplers:	McFarren	, Rigsby	Statio	-	"X2" 113				US 50	
Altamirano	=0			tion fron		Lt.	75'	_ R	t	
Sample No.:	79		Coun	nty:	LYON					
Sample Type:	_	_	_		Depth (ft)	В	oring Description			PSI
RV ■	Sub □	Chem □		Other	0				0	100
Vegetation:			rubs 🗆		2		Silt S		2	
	Brushy	•			4		Cla	ay	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	6" tall cheat	grass, drill hole wa	as drilled 30' LT	of	12				12	
	CL of Apacl	ne Drive			14				14	
					16				16	
Submitted By:	ALTAMII	RANO			18				18	
Title:	Engineerii	ng Technician II	<u> </u>		20				20	
	3" 2" 1.5"				Plastic Inde Specific Gr Resistance	ravity	8 24	- - -	F	
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"				Thic	kness	21.0	_		
	1/2"	400					_			
	3/8"	100				Sand Equi				
	No. 4	98					oisture, %			
	No. 10	92				Resistivity				
	No. 16	88				pH Factor		4.4(0)		
	No. 40	79				AASHTO	Classification	A-4(0)		
	No. 50	74								
	No. 100	61								
	No. 200	41								
Danasalas										
Remarks:										

Date Reported:	8/24/11								
Lab No.:	S11-03, R		1.0		M I W 20	20 TO L V 2	E (1		
E.A.:	73475	J	ob Description:	US 50 FRO	MILY ZU	.39 TO LY 2	3.01		
Date Rec'd	6/30/11 McEarman	Diagha	C4-4:	UV2U 1125	. 00		D4-	TIC FO	
Samplers:	McFarren	, Rigsby	Station	"X2" 1135+		1501		US 50	
Altamirano Sample No.:	80		Location fro	LYON	Lt	150'	Rt.		
	00		County.		ъ.	D :::			DGI
Sample Type: RV ■	Sub □	Chem □ DC	□ Other □	Depth (ft) 0	Borin	g Description		0	PSI 100
Vegetation:		Trees Shrubs		2		Silt		2	100
vegetation.	Brushy \square			4		Sand		4	
Cut Section		Fill Section		6		San	1	6	
Taken Through Oil		Taken on Shoulder	7	8				8	
Gravel Depth (in)		Oil Depth (in)	_	10				10	
Remarks:	6" tall cheat			12				12	
Remarks.	o tan cheat	glass		14				14	
				- 16				16	
Submitted By:	ALTAMI	RANO		18				18	
Title:		ng Technician III		20				20	
	Sieve Size 3" 2" 1.5"	% Passing		Liquid Limit Plastic Index Specific Grav Resistance Va		6			
	1"			Cover	_	tabilometer		Expansion I	Pressure
	3/4"	100		Thickn		17.7		2. pansion 1	ressure
	1/2"	98		111141111	_	2.11			
	3/8"	97		Sa	nd Equiva	lent			
	No. 4	92			atural Mois	•			
	No. 10	79			esistivity	,			
	No. 16	72		pН	I Factor	•			
	No. 40	54		A	ASHTO C	lassification	A-2-4(0)		
	No. 50	45				·			
	No. 100	30							
	No. 200	20							
Remarks:									

Date Reported: Lab No.:	8/24/11 S11-03, RV	V-365-11									
E.A.:	73475	V-303-11	Iob Do	escription:	_ US 50 FR	ROM LY	20.39 TO	LY 25.	61		
Date Rec'd	6/30/11		300 D	escription.	<u> </u>	towi Li	20.00 10	DI 20.	01		
Samplers:	McFarren	. Rigsby		Station	"X2" 113	30+00			Route U	S 50	
Altamirano	1/101 011 01	, <u>-ug</u> s~ <u>,</u>		Location fro		Lt.	80'		Rt.	200	
Sample No.:	81			County:	LYON	200					
Sample Type:				•	Depth (ft)	В	oring Description	on			PSI
RV ■	Sub □	Chem □	DC \square	Other □						0	100
Vegetation:	None	Trees Shru	ubs 🗆		2			Silt		2	
	Brushy \square	Grassy			4			Sand		4	
Cut Section		Fill Section			6					6	
Taken Through Oil		Taken on Shoulder			8					8	
Gravel Depth (in)		Oil Depth (in)			10					10	
Remarks:	6" tall cheat	grass			12					12	
					14					14	
					16					16	
Submitted By:	ALTAMII	RANO			18					18	
Title:	Engineerin	ng Technician III			20					20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 97 92 89 78 73 62 51				lex dravity Value Ckness Sand Equ Natural M Resistivity pH Factor	loisture, %		A-6(4)	pansion I	Pressure
Remarks:											

Date Reported:	8/24/11									
Lab No.:	S11-03, R	V-366-11		• ,•	_ 		20 20 TO 1 X	205 (1		
E.A.:	73475	•	Job De	escription:	US 50 FR	OMLY	20.39 TO LY	25.61		
Date Rec'd	6/30/11 MaFarman	Disaba		Grania -	UV2U 112	00.00		D	, IIC 50	
Samplers:	McFarren	i, Rigsby		Station	"X2" 112		701	_ Ro	ute US 50	
Altamirano Sampla Na :	82			Location fro	LYON	Lt.	70'	_	Rt	
Sample No.:	02			County:						DOL
Sample Type: RV ■	Sub □	Chem □	DC 🗆	Other	Depth (ft) 0	В	Soring Description		0	PSI 100
Vegetation:			ubs \square	Other L	2		c	ilt	0 2	100
vegetation.	Brushy \square		uos 🗀		4			ınd	2 4	
Cut Section	Drusily —	Fill Section			- 6		30	iiiu	6	
Taken Through Oi	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)	. ⊔	Oil Depth (in)			10				10	
Remarks:	6" tall cheat				12				12	
Remarks.	0 tan cheat	giass			14				14	
					16				16	
Submitted By:	ALTAMI	RANO			18				18	
Title:		ng Technician III			20				20	
	Sieve Size	% Passing			Liquid Lim		39			
	3"				Plastic Inde		21			
	2"				Specific G	-	26	_		
	1.5"				Resistance Cover	value	26 Stabilometer		Eumanaian I)
	3/4"					kness	20.4		Expansion I	riessure
	1/2"				Tille	KIICSS	20.4	_		
	3/8"					Sand Equ	ivalent			
	No. 4	100				_	Ioisture, %			
	No. 10	98				Resistivit				
	No. 16	95				pH Factor				
	No. 40	87				-	Classification	A-6(1	4)	
	No. 50	84						11 0(1		
	No. 100	80								
	No. 200	73								
	-									
Remarks:										
	-									
									_	

Date Reported:	8/24/11	V 268 11								
Lab No.:	S11-03, R	V-36/-11	LID			ANT I S Z 2	00 20 TO I V	25 (1		
E.A.:	73475	•	Job Des	scription:	US 50 FRO	JNI LY 2	20.39 TO LY	25.01		
Date Rec'd	6/30/11 McFarran	Diaghy	C	· · · · · · · · · · · · · · · · · · ·	"X2" 1110) . OO		D4-	TIC FO	
Samplers:	McFarren	i, Rigsby		Station			901	_	<u>US 50</u>	
Altamirano Sample No.:	83			Location fro County:	m CL (ft) LYON	Lt.	80'	- Rt		
	03			Jounny.						Dar
Sample Type: RV ■	Sub □	Chem □	DC 🗆	041	Depth (ft)	Во	ring Description		0	PSI
				Other	-		C:1		0	100
Vegetation:			ıbs \blacksquare		2		Sil		2	
Cut Section	Brushy -	·			- 4		Sar	10	4	
		Fill Section □ Taken on Shoulder			6				6	
Taken Through Oil	I 🗆				8				8	
Gravel Depth (in)	C!! 4-11 -14	Oil Depth (in)	_1_		10				10	
Remarks:	6 tall cheat	t grass, 4" tall sagebru	ISN		12				12	
					- 14				14	
C 1 '4 1D	A I TANII	DANO			_ 16				16	
Submitted By: Title:	ALTAMI	ng Technician III			- 18 20				18 20	
Title.	Liighteern				20				20	
	Sieve Size	% Passing			Liquid Limi	t	44			
	3"	U			Plastic Index		24	=		
	2"				Specific Gra			_		
	1.5"				Resistance V	-	22	_		
	1"				Cover		Stabilometer	=	Expansion I	Pressure
	3/4"				Thick	ness	21.6		2	10000010
	1/2"				Tinen	11033		_		
	3/8"				S	and Equiv	valent			
	No. 4	100				Vana Equiv Vatural Mo				
	No. 10	98				Resistivity	7. Stare, 70			
	No. 16	95				H Factor				
	No. 40	86			-		Classification	A-7-6(16)	<u> </u>	
	No. 50	83			•		Classification	11 / 0(10)	<i>,</i>	
	No. 100	78								
	No. 200	71								
	110. 200	/1								
Remarks:										
TOHIURS.										