LINE SAMPLING DATA

US 395 “XN” 250+00 to “XN” 900+00

WASHOE COUNTY, NEVADA

MAY 1984

(NEW)
XN 25346 – 30250

Lab No._____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: KEEN, ZOLA, HALE, BANOVICH

Job Description: 395 NORTH BOUND
Station: XN ~ 250+00 NBCL
Location from CL:
County: WASHOE

Sample No. 1
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
~~FINE SAND~~
CONCRETE ~~CORE~~ NO SAMPLE

Depth	Boring Description	PSI
0 – 5 – 0 – 5 – 0 – 5		0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
No. 4	
No. 10	
No. 16	
No. 40	
No. 50	
No. 100	
No. 200	

Date Reported_____

Liquid Limit_____
Plasticity Index_____
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____ Expansion Pressure_____
HMCT % No. 4-_____ % No. 4+_____
Max.Dens._____ Sp.Gr._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification_____

Remarks:_____

NDOT
020-046
Rev 4-83

b No._____

LINE SAMPLING DATA (FIELD)

A.No: 71099
RT No:
te: 1-31-84
mplers: KERN, ZOLA, HOLT, BANOVICH

Job Description: 395 NORTHBOUND
Station: 255+00 NB CL
Location from CL:
County: WASHOE

mple No. 2
mple Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

escription of Terrain: ROLLING

egetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

lemarks: ~~THRU OIL~~
CONCRETE NO SAMPLE

Depth	Boring Description	PSI
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5		0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

LABORATORY ANALYSES

Date Reported_____

Sieve Size	% Passing
3"	
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
No. 4	
No. 10	
No. 16	
No. 40	
No. 50	
No. 100	
No. 200	

Liquid Limit_____
Plasticity Index_____
Specific Gravity_____
Resistance Value_____
Cover Stabilometer
Thickness _____
HMCT % No. 4-_____
Max.Dens._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Radical
Salt: CO_3 & HCO_3
Chloride
Sulphate
pH Factor_____
HRB Classification_____

Expansion Pressure
_____
% No. 4+_____
Sp.Gr. _____

Parts Per Million
_____
_____
_____

Remarks: _____

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Lab No.

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: Kern, Zola, Holz Baroush

Job Description: 395 North Bound
Station: 260+00 NB CL
Location from CL:
County: Washoe

Sample No. 3
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: Ret
TAKIN IN CUT THRU OIL

Depth	Boring Description	PSI
0–10	SILT SAND GRAVEL LT. CLAY	

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	100
1"	
3/4"	93
1/2"	
3/8"	
No. 4	67 33
No. 10	55
No. 16	
No. 40	37
No. 50	
No. 100	
No. 200	24 43

Date Reported

Liquid Limit 30
Plasticity Index 10
Specific Gravity
Resistance Value
Cover Thickness — Stabilometer — Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-2-4(0)

Remarks:

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: Kerr, Zola, Hale, Bradwell

Job Description: 395 NORTHBOUND
Station: 265+00 NB CL
Location from CL:
County: WASHOE

Sample No. 4
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: TAKEN IN FILL THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 0 – 5 – 0 – 5	SANDY SILT GRAVEL	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	88	
1/2"		
3/8"		
No. 4	63	37
No. 10	51	
No. 16		
No. 40	33	
No. 50		
No. 100		
No. 200	21	42

Date Reported _____

Liquid Limit 30
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. ____________

LINE SAMPLING DATA (FIELD)

E.A.No: 71099

PERT No:

Date: 1-31-84

Samplers: Kerr, Zola, Hale, Bassuett

Job Description: 395 North Bound

Station: 270+00 NB CL

Location from CL:

County: Washoe

Sample No. 5

Sample Type:

RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:

Trees ☐ Shrubs ☐ Grassy ☐

Brushy ☐

Remarks: CUT THRU OIL

Depth	Boring Description	PSI
0–10	SAND SILT GRAVEL	

LABORATORY ANALYSES

Date Reported ____________

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	90	
1/2"		
3/8"		
No. 4	66	34
No. 10	49	
No. 16		
No. 40	27	
No. 50		
No. 100		
No. 200	19	47

Liquid Limit 25

Plasticity Index 4

Specific Gravity

Resistance Value

Cover Thickness / Stabilometer / Expansion Pressure

HMCT % No. 4- ____ % No. 4+ ____

Max.Dens. ____ Sp.Gr. ____

Opt.Moist. ____

Calculated Max. Density

Sand Equivalent

Natural Moisture %

Soluble Radical / Parts Per Million

Salt: CO_3 & HCO_3

Chloride

Sulphate

pH Factor

HRB Classification A-1-b(0)

Remarks:

NDOT
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Rev 4-83

Lab No. RV 277-84
C 372-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: [illegible], Zola, Hale, Bassuich

Job Description: 395 North Bound
Station: 275+00 NBCL
Location from CL:
County: Washoe

Sample No. 6
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0–10	SAND SILT GRAVEL LITTLE CLAY	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	99	
1/2"	97	
3/8"	94	
No. 4	90	10
No. 10	81	
No. 16	73	
No. 40	54	
No. 50	49	
No. 100	39	
No. 200	31	59

Date Reported

Liquid Limit 31
Plasticity Index 9
Specific Gravity
Resistance Value 43
Cover Thickness Stabilometer 14 1/2 Expansion Pressure 12 1/2
HMCT % No. 4- % No. 4+
Max.Dens. Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 20
Natural Moisture %
Soluble Radical Parts Per Million
Salt: CO_3 & HCO_3 199 ppm
Chloride
Sulphate
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No._____

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, KOKIN, BANOVICH

Job Description: U.S. 395 N. RENO
Station: 280+00 NBCL
Location from CL:
County: WA

ample No. 7
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

)escription of Terrain: ROLLING

/egetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0	SAND SILT GRAVEL	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	81	19
No. 10	67	
No. 16		
No. 40	39	
No. 50		
No. 100		
No. 200	24	57

Date Reported_____

Liquid Limit 27
Plasticity Index 11
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____ Expansion Pressure_____
HMCT % No. 4-_____ % No. 4+_____
Max.Dens._____ Sp.Gr._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification A-2-6(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, ROSS, BARNOVICH

Job Description: US 395 N. RENO
Station: 285+00 NBCL
Location from CL:
County: WA

Sample No. 8
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0	SAND CLAY	0
10		0
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	92	8
No. 10	81	
No. 16		
No. 40	52	
No. 50		
No. 100		
No. 200	30	62

Date Reported _____

Liquid Limit 28
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 21099
PERT No:
Date: 1-31-94
Samplers: Zolk, Hale, Kern, Banovich

Job Description: US 395 N.
Station: 29c+00 NB CL
Location from CL:
County:

Sample No. 9
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
IN FILL THRU OIL

Depth	Boring Description	PSI
0	SAND CLAY	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	
1"	
3/4"	100
1/2"	
3/8"	
No. 4	96 4
No. 10	85
No. 16	
No. 40	55
No. 50	
No. 100	
No. 200	32 64

Date Reported _____

Liquid Limit 29
Plasticity Index 12
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6(0)

Remarks: _____

NDOT
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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BANNOCK

Job Description: U.S. 395 N.
Station: 295+00 NB CL
Location from CL:
County: WA.

Sample No. 10
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: TARRY OIL IN FILL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	95	5
No. 10	85	
No. 16		
No. 40	57	
No. 50		
No. 100		
No. 200	32	63

Date Reported _____

Liquid Limit 28
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BRANDRICK

Job Description: US 395 N.
Station: 299+00 NB CL
Location from CL:
County: WA

Sample No. 11
Sample Type:
RV ☐ Sub ☐ Chem ☑ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
NO CULVERT - NO SAMPLE

Depth	Boring Description	PSI
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5		0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
No. 4	
No. 10	
No. 16	
No. 40	
No. 50	
No. 100	
No. 200	

Date Reported _____

Liquid Limit _____
Plasticity Index _____
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification _____

Remarks: _____

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ab No. RV 228-84
C 373-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
'ERT No:
)ate: 1-31-84
;amplers: ZOLA, HALO, KERN, BANOVICH

Job Description: US 395 N
Station: 300 + 00 NB CL
Location from CL:
County: Wa

;ample No. 12
;ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU

Depth	Boring Description	PSI
0–5	SILT SAND CLAY	
5–10		
10–15		
15–20		

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"	100	
3/8"	99	
No. 4	97	3
No. 10	86	
No. 16	76	
No. 40	56	
No. 50	50	
No. 100	39	
No. 200	31	66

Date Reported

Liquid Limit 26
Plasticity Index 8
Specific Gravity
Resistance Value 28
Cover Thickness
Stabilometer 19 1/2
Expansion Pressure 8 1/2
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 14
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
164 ppm
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: US 395 N.
Station: 305+00 NB CL
Location from CL:
County: WA

Sample No. 13
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0	SILT SAND GRAVEL CLAY	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	95	
1/2"		
3/8"		
No. 4	81	19
No. 10	69	
No. 16		
No. 40	46	
No. 50		
No. 100		
No. 200	26	55

Date Reported _____

Liquid Limit 27
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____

Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____

pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BRANOVICH

Job Description: U.S. 395 N
Station: 310+00 NBCL
Location from CL:
County: WA

Sample No. 14
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU C.L

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	88	12
No. 10	78	
No. 16		
No. 40	52	
No. 50		
No. 100		
No. 200	30	58

Date Reported _____

Liquid Limit 30
Plasticity Index 12
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____

Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____

pH Factor _____
HRB Classification A-2-6(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S 395 N.
Station: 315+00 NB CL
Location from CL:
County: WA

Sample No. 15
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 0 – 5 – 0 – 5	SAND SILT GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	94	6
No. 10	84	
No. 16		
No. 40	57	
No. 50		
No. 100		
No. 200	33	61

Date Reported _____

Liquid Limit 26
Plasticity Index 15
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6(1)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BARKOVICH

Job Description: U.S. 395 N
Station: ~~320~~ 320+00 NB CL
Location from CL:
County:

Sample No. 16
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 10 – 5 – 0 – 5	SAND, SILT, GRAVEL, CLAY	0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	92	8
No. 10	79	
No. 16		
No. 40	50	
No. 50		
No. 100		
No. 200	27	65

Date Reported _____

Liquid Limit 26
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____

Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____

pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV 279-84
C 374-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S. 395 N.
Station: 325+00 NB CL
Location from CL:
County: WA

Sample No. 17
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SAND SILT GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	96	
3/8"	96	
No. 4	93	7
No. 10	83	
No. 16	74	
No. 40	57	
No. 50	53	
No. 100	43	
No. 200	34	59

Date Reported

Liquid Limit 25
Plasticity Index 10
Specific Gravity
Resistance Value 18
Cover Thickness
Stabilometer 23"
Expansion Pressure 9 1/2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 12
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
218 PPM
pH Factor 8.3
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No._____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KOLEN, BANOVICH

Job Description: US 395 N
Station: 330700 NBCL
Location from CL:
County: WA.

Sample No. 18
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SAND SILT CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	95	
1/2"		
3/8"		
No. 4	84	16
No. 10	73	
No. 16		
No. 40	49	
No. 50		
No. 100		
No. 200	30	54

Date Reported_____

Liquid Limit 28
Plasticity Index 11
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____ Expansion Pressure_____
HMCT % No. 4-_____ % No. 4+_____
Max.Dens._____ Sp.Gr._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification A-2-6(0)

Remarks: _____

NDOT
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Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S. 395 N
Station: ~~335+00~~ 335+00 NB CL
Location from CL:
County: WA.

Sample No. 19
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0 – 5 – 10 – 0 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	95	
1/2"		
3/8"		
No. 4	86	14
No. 10	77	
No. 16		
No. 40	50	
No. 50		
No. 100		
No. 200	28	58

Liquid Limit 26
Plasticity Index 8
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
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Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, HALE, KERN, BRNOVICH

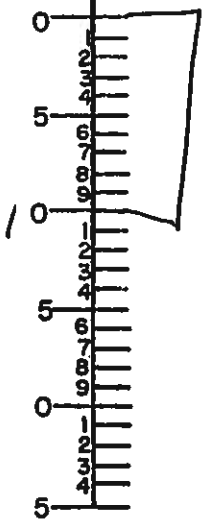
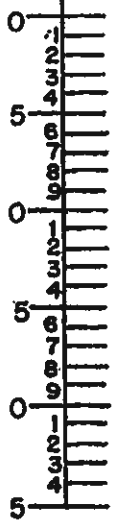
Job Description: US-395 N.
Station: 340+00 NB CL
Location from CL:
County: WA

Sample No. 20
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU O.L

Depth	Boring Description	PSI
	SILT SAND GRAVEL CLAY	

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	99	
1/2"		
3/8"		
No. 4	88	12
No. 10	75	
No. 16		
No. 40	52	
No. 50		
No. 100		
No. 200	32	56

Liquid Limit 32
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No._____

LINE SAMPLING DATA (FIELD)

T.A.No: 71099
PERT No:
Date: 1-31-84
Samplers: ZOLA, WALC, KERN, BANOVICH

Job Description: US 395 N
Station: 345+00 NB CL
Location from CL:
County: WA

Sample No. 21
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported_____

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	95	5
No. 10	88	
No. 16		
No. 40	65	
No. 50		
No. 100		
No. 200	38	57

Liquid Limit 31
Plasticity Index 15
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____
HMCT % No. 4-_____
Max.Dens._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification A-6 (2)

Expansion Pressure
% No. 4+_____
Sp.Gr._____

Remarks:_____

NDOT
020-046
Rev 4-83

ab No. RV 280-84
C 375-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, KOLEN, BOSNOVICH

Job Description: U.S 395 N. RENO
Station: 350+00 NB CL
Location from CL:
County: WA.

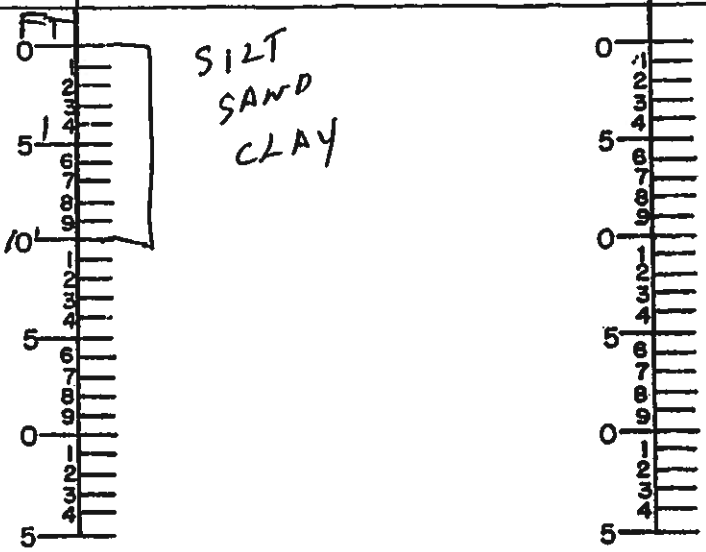
ample No. 22
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
FT	SILT SAND CLAY	



LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"	100	
3/8"	99	
No. 4	97	3
No. 10	91	
No. 16	86	
No. 40	75	
No. 50	71	
No. 100	61	
No. 200	50	47

Liquid Limit 30
Plasticity Index 11
Specific Gravity
Resistance Value 22
Cover Thickness
Stabilometer 21/2"
Expansion Pressure 17"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 7
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
466 ppm
pH Factor 8.2
HRB Classification A-6 (3)

Remarks:

NDOT
020-046
Rev 4-83

LINE SAMPLING DATA (FIELD)

ab No.

.A.No: 71099

ERT No:

ate: 1-31-84

amplers: ZOLA HAZE, RERN, BANOVICH

Job Description: US 395 N RENO

Station: 355+00 NBCL

Location from CL:

County: WA

ample No. 23

ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Depth	Boring Description	PSI
0–10	SILT SAND CLAY	

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	92	8
No. 10	83	
No. 16		
No. 40	66	
No. 50		
No. 100		
No. 200	41	51

Liquid Limit 28
Plasticity Index 15
Specific Gravity
Resistance Value

Cover Thickness | Stabilometer | Expansion Pressure

HMCT % No. 4-
Max.Dens.
Opt.Moist.

% No. 4+
Sp.Gr.

Calculated Max. Density
Sand Equivalent
Natural Moisture %

Soluble Salt: Radical | Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate

pH Factor
HRB Classification A-6 (3)

Remarks:

NDOT
020-046
Rev 4-83

LINE SAMPLING DATA (FIELD)

ab No._____

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, KERN, BANOWICZ

Job Description: U.S. 395 N.
Station: 360+00 NB CL
Location from CL:
County: WA

ample No. 24
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SAND, SILT, GRAVEL, CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported_____

Sieve Size	% Passing
3"	
2"	
1 1/2"	100
1"	
3/4"	97
1/2"	
3/8"	
No. 4	85 15
No. 10	73
No. 16	
No. 40	53
No. 50	
No. 100	
No. 200	35 50

Liquid Limit 27
Plasticity Index 9
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____
HMCT % No. 4-_____
Max.Dens._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification A-2-4(0)

Expansion Pressure_____
% No. 4+_____
Sp.Gr._____

Remarks:

NDOT
020-046
Rev 4-83

ab No. _____

LINE SAMPLING DATA (FIELD)

.A.No: 71099
'ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, KERN, BANDUCK

Job Description: US 395 N. RENO
Station: 365+00 NB CL
Location from CL:
County: WA.

ample No. 25
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0 – 10 – 0 – 5	SILT SAND CLAY LITTLE GRAVEL	0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	89	11
No. 10	76	
No. 16		
No. 40	55	
No. 50		
No. 100		
No. 200	37	52

Liquid Limit 28
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____
HRB Classification A-4 (0)

Expansion Pressure
% No. 4+ _____
Sp.Gr. _____

Parts Per Million

Remarks: _____

NDOT
020-046
Rev 4-83

ab No.

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, KERN, BRANDICH

Job Description: U.S. 395 N. RENO
Station: 370+00 NB CL
Location from CL:
County: WA

ample No. 26
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: TAHOE OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	99	
1/2"		
3/8"		
No. 4	69	31
No. 10	57	
No. 16		
No. 40	42	
No. 50		
No. 100		
No. 200	27	42

Liquid Limit 27
Plasticity Index 9
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV 281-84
C 376-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, HALE, REKW, BANOVICH

Job Description: U.S. 395 N. RENO
Station: 375+00 NB CL
Location from CL:
County: WA.

ample No. 27
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SAND SILT CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	98	
3/8"	96	
No. 4	93	7
No. 10	87	
No. 16	83	
No. 40	75	
No. 50	72	
No. 100	65	
No. 200	56	37

Liquid Limit 38
Plasticity Index 18
Specific Gravity
Resistance Value 28
Cover Thickness Stabilometer 19/2
Expansion Pressure couldn't calculate too much exp.
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 8
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 127 ppm
Chloride
Sulphate
pH Factor 8.1
HRB Classification A-6 (7)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV 282-84
C 377-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 1-31-84
amplers: ZOLA, BALDVICH, KERN, HALE

Job Description: NB 395
Station: XN 380~ CL
Location from CL:
County: WA

ample No. 28
ample Type:
RV [X] Sub [ ] Chem [ ] DC [ ] Other [ ]

Description of Terrain: ROLLING

Depth	Boring Description	PSI
0–10'	SAND, GRAVELS, CLAY	

Vegetation:
Trees [ ] Shrubs [ ] Grassy [ ]
Brushy [ ]

Remarks: THRU OFL

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"	98	
3/4"	97	
1/2"	90	
3/8"	86	
No. 4	75	25
No. 10	61	
No. 16	55	
No. 40	45	
No. 50	42	
No. 100	36	
No. 200	30	45

Date Reported

Liquid Limit 29
Plasticity Index 10
Specific Gravity
Resistance Value 42
Cover Stabilometer
Thickness 15"
Expansion Pressure 11"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent 13
Natural Moisture %
Soluble Radical
Salt: CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
196 ppm
pH Factor 8.0
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

NEW XS 254+00 – 302+00

Lab No. RV 283-84
C 378-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S. 395 N. RENO
Station: 380+00 SBCL
Location from CL:
County: WA.

Sample No. 29
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	95	
1/2"	93	
3/8"	90	
No. 4	79	21
No. 10	68	
No. 16	61	
No. 40	49	
No. 50	46	
No. 100	34	
No. 200	32	47

Date Reported

Liquid Limit 26
Plasticity Index 8
Specific Gravity
Resistance Value 42
Cover Thickness Stabilometer 14 1/2"
Expansion Pressure 15"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 11
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 104 ppm
Chloride
Sulphate
pH Factor 8.4
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 02-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S 395 N. RENO
Station: 375+00 SBCL
Location from CL:
County: WA.

Sample No. 30
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0–5–0–5–0–5	SILT SAND CLAY	0–5–0–5–0–5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	93	7
No. 10	86	
No. 16		
No. 40	68	
No. 50		
No. 100		
No. 200	48	45

Date Reported _____

Liquid Limit 28
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____

Expansion Pressure
% No. 4+ _____
Sp.Gr. _____

Parts Per Million

HRB Classification A-4(3)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 41099
PERT No:
Date: 02-1-84
Samplers: ZOLA, HALE, KELN, BANOVICH

Job Description: US 395 N. RENO
Station: 370+00 SB CL
Location from CL:
County:

Sample No. 31
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU O.L

Depth	Boring Description	PSI
0 – 5 – 0 – 5 – 0 – 5	SILT SANDY CLAY Gravel	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	84	16
No. 10	73	
No. 16		
No. 40	52	
No. 50		
No. 100		
No. 200	35	49

Date Reported _____

Liquid Limit 24
Plasticity Index 5
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
% No. 4+ _____
Sp.Gr. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-7-84
Samplers: ZOLL, HALE, KERN, BANOVICH

Job Description: US 395 N- RENO
Station: 365+00 SB CL
Location from CL:
County: WA.

Sample No. 32
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	96	
1/2"		
3/8"		
No. 4	81	19
No. 10	68	
No. 16		
No. 40	49	
No. 50		
No. 100		
No. 200	31	50

Date Reported _____

Liquid Limit 26
Plasticity Index 8
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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ab No. _____

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 2-1-84
amplers: ZOLA, HALE, KERN, BANUELOS

Job Description: US 395 N RENO
Station: 360+00 SB CL
Location from CL:
County: WA.

ample No. 33
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU CUL

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY ORGANICS	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"	100	
2"		
1 1/2"	99	
1"		
3/4"	98	
1/2"		
3/8"		
No. 4	80	20
No. 10	69	
No. 16		
No. 40	49	
No. 50		
No. 100		
No. 200	31	49

Liquid Limit 25
Plasticity Index 12
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____
HRB Classification A-2-6 (0)

Expansion Pressure _____
% No. 4+ _____
Sp.Gr. _____

Parts Per Million
_____
_____
_____

Remarks: _____

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Lab No. RV 284-84
C 379-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: US 395 N RENO
Station: 355+00 SB CL
Location from CL:
County: WA

Sample No. 34
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0 to 15	SILT SAND CLAY LITTLE GRAVEL	0 to 15

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"	100	
3/8"	99	
No. 4	96	4
No. 10	89	
No. 16	85	
No. 40	68	
No. 50	63	
No. 100	51	
No. 200	40	56

Date Reported

Liquid Limit 29
Plasticity Index 11
Specific Gravity
Resistance Value 35
Cover Thickness
Stabilometer 17 1/2"
Expansion Pressure 10 1/2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 11
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3
Chloride 109 ppm
Sulphate
pH Factor 8.0
HRB Classification A-6 (1)

Remarks:

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: US 395 N. RENO
Station: 350+00 SB CL
Location from CL:
County: WA

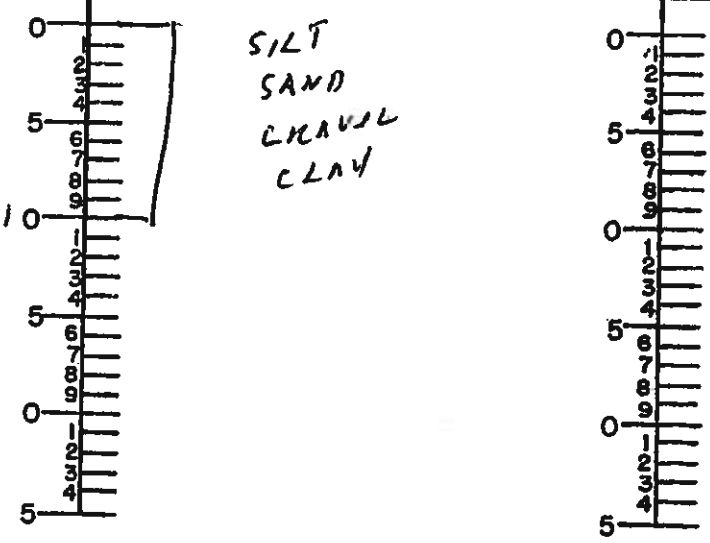
Sample No. 35
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0 – 10	SILT SAND GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	96	4
No. 10	85	
No. 16		
No. 40	54	
No. 50		
No. 100		
No. 200	30	66

Date Reported _____

Liquid Limit 29
Plasticity Index 8
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: US 395 N. RENO
Station: 346+00 SB CL
Location from CL:
County:

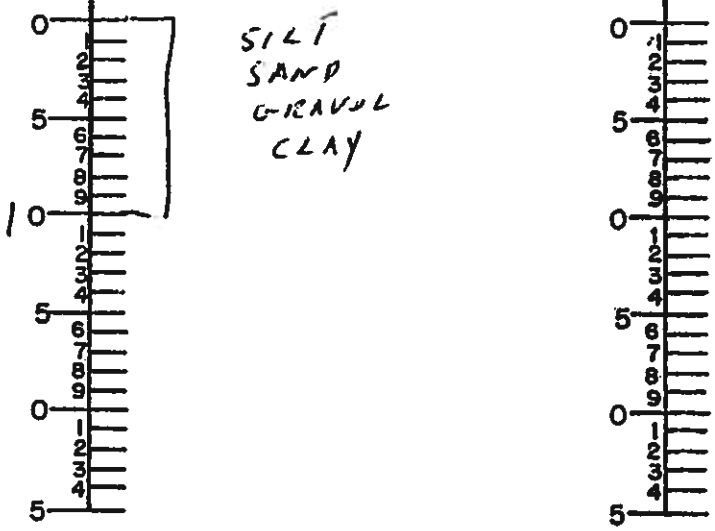
Sample No. 36
Sample Type:
RV ☒ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0–5	SILT SAND GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	90	10
No. 10	82	
No. 16		
No. 40	60	
No. 50		
No. 100		
No. 200	39	51

Date Reported _____

Liquid Limit 27
Plasticity Index 13
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-6 (2)

Remarks: _____

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Rev 4-83

Lab No. RV 285-84
C 380-84

LINE SAMPLING DATA (FIELD)

P.A.No: 71099
FERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICL

Job Description: US 395 N. RENO
Station: 344+00 SBCL
Location from CL:
County: WA

Sample No. 37
Sample Type:
RV ☑ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL
FILL AREA

Depth	Boring Description	PSI
0 – 10 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	98	
3/8"	96	
No. 4	90	10
No. 10	78	
No. 16	69	
No. 40	52	
No. 50	48	
No. 100	38	
No. 200	31	59

Liquid Limit 29
Plasticity Index 17
Specific Gravity
Resistance Value 26
Cover Thickness
Stabilometer 20"
Expansion Pressure 10"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 13
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
138 ppm
pH Factor 8.2
HRB Classification A-2-6(1)

Remarks:

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANWICK

Job Description: US 395 N.
Station: 339+00 SBCL
Location from CL:
County: WA.

Sample No. 38
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL
FILL AREA

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY ORGANICS	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	98	
1/2"		
3/8"		
No. 4	81	19
No. 10	71	
No. 16		
No. 40	51	
No. 50		
No. 100		
No. 200	33	48

Date Reported _____

Liquid Limit 25
Plasticity Index 12
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-6 (0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Sample No. 39
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL
FILL AREA

Job Description: US 395 N. RENO
Station: 334+00 SB CL
Location from CL:
County: WA

Depth	Boring Description	PSI
0 – 5 – 10 – 5 – 0 – 5	SILT SAND GRAVEL CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	100
1"	
3/4"	98
1/2"	
3/8"	
No. 4	88 12
No. 10	78
No. 16	
No. 40	53
No. 50	
No. 100	
No. 200	33 55

Date Reported _____

Liquid Limit 26
Plasticity Index 11
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____
HRB Classification A-6 (0)

Expansion Pressure
% No. 4+ _____
Sp.Gr. _____

Parts Per Million

Remarks: _____

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Lab No. RV-286-84
C 381-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: U.S. 395 N. RENO
Station: 329+00 SB CL
Location from CL:
County: WA

Sample No. 40
Sample Type:
RV [x] Sub [ ] Chem [ ] DC [ ] Other [ ]

Description of Terrain: ROLLING

Vegetation:
Trees [ ] Shrubs [ ] Grassy [ ]
Brushy [ ]

Remarks:
THRU OIL CUT AREA

Depth	Boring Description	PSI
0	SILT SAND GRAVEL	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	99	
3/8"	98	
No. 4	91	9
No. 10	76	
No. 16	63	
No. 40	39	
No. 50	33	
No. 100	23	
No. 200	17	74

Date Reported

Liquid Limit 21
Plasticity Index 3
Specific Gravity
Resistance Value 59
Cover Thickness Stabilometer 10"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 30
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor 8.8
HRB Classification A-1-b(0)

Expansion Pressure 3"
% No. 4+
Sp.Gr.

Parts Per Million
178 ppm

Remarks:

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: Zola, Hale, Kern, Banovich

Job Description: U.S. 395 N Reno
Station: 324+00 S.B. CL
Location from CL:
County: Wa.

Sample No. 41
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL
FILL AREA

Depth	Boring Description	PSI
0 – 5 – 10 – 0 – 5 – 0 – 5	SILT SAND CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	92	8
No. 10	82	
No. 16		
No. 40	55	
No. 50		
No. 100		
No. 200	34	58

Date Reported _____

Liquid Limit 27
Plasticity Index 11
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-6(0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: Z-OLA, HALE, KERN, BANOVICH

Job Description: U.S. 395 N. RENO
Station: 319+00 SB CL
Location from CL:
County: WA

Sample No. 42
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:
THRU OIL

Depth	Boring Description	PSI
0 – 10	SILT SAND	0 – 5

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	94	6
No. 10	83	
No. 16		
No. 40	53	
No. 50		
No. 100		
No. 200	29	65

LABORATORY ANALYSES

Date Reported _____

Liquid Limit 24
Plasticity Index 8
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____

Expansion Pressure
% No. 4+ _____
Sp.Gr. _____

Parts Per Million

HRB Classification A-2-4(0)

Remarks: _____

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Lab No. ____________

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: Zola, Korn, Banovich, Ha...
Sample No. 43
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: Thru Oil

Job Description: US 395 Reno
Station: XS 314
Location from CL: ℄
County: WA

Depth	Boring Description	PSI
FT 0–10	SILT SAND GRAVEL CLAY	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	93	7
No. 10	83	
No. 16		
No. 40	52	
No. 50		
No. 100		
No. 200	30	63

Date Reported ____________

Liquid Limit 28
Plasticity Index 15
Specific Gravity ____
Resistance Value ____
Cover Thickness — Stabilometer ____ — Expansion Pressure ____
HMCT % No. 4- ____ — % No. 4+ ____
Max.Dens. ____ — Sp.Gr. ____
Opt.Moist. ____
Calculated Max. Density ____
Sand Equivalent ____
Natural Moisture % ____
Soluble Radical — Parts Per Million
Salt: CO_3 & HCO_3 ____
Chloride ____
Sulphate ____
pH Factor ____
HRB Classification A-2-6 (1)

Remarks: ____________

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 7109
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, BANOVICH, KERN

Job Description: US 395 Reno
Station: XS 309 ~
Location from CL: ℄
County: WA

Sample No. 44
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: Thru Oil

Depth	Boring Description	PSI
FT 0	SILT SAND GRAVEL CLAY	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	90	10
No. 10	73	
No. 16		
No. 40	51	
No. 50		
No. 100		
No. 200	30	60

Date Reported _____

Liquid Limit 26
Plasticity Index 8
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV 287-84
C 382-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers:

Job Description: US 395 RENO
Station: XS 304 N
Location from CL: ℄
County: WA

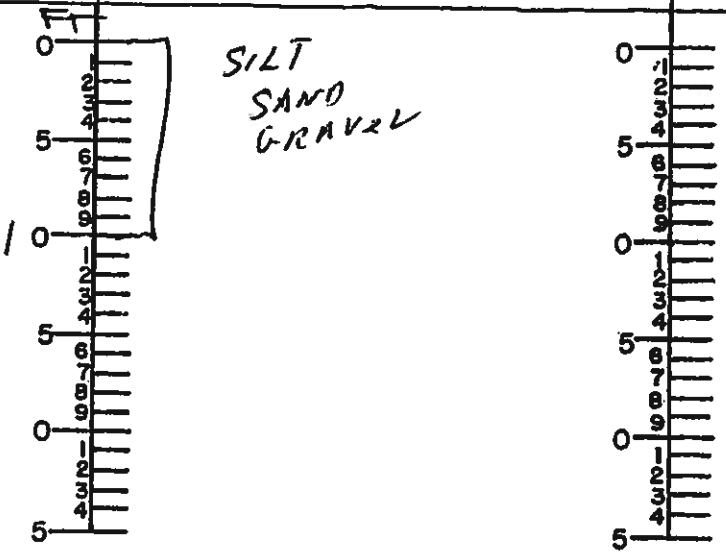
Sample No. 45
Sample Type:
RV [X] Sub [ ] Chem [ ] DC [ ] Other [ ]

Description of Terrain: ROLLING

Vegetation:
Trees [ ] Shrubs [ ] Grassy [ ]
Brushy [ ]

Remarks: THRU OIL CUT AREA

Depth	Boring Description	PSI
FT	SILT SAND GRAVEL	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	99	
1/2"	97	
3/8"	95	
No. 4	91	9
No. 10	76	
No. 16	63	
No. 40	41	
No. 50	36	
No. 100	27	
No. 200	20	71

Date Reported

Liquid Limit 23
Plasticity Index 7
Specific Gravity
Resistance Value 27
Cover Thickness
Stabilometer 19 1/2
Expansion Pressure 2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 21
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 81 ppm
Chloride
Sulphate
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

NDOT
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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, KERN, HALE, BANOVICH

Job Description: US 395 Reno
Station: XS 299~
Location from CL: ℄
County: Wa

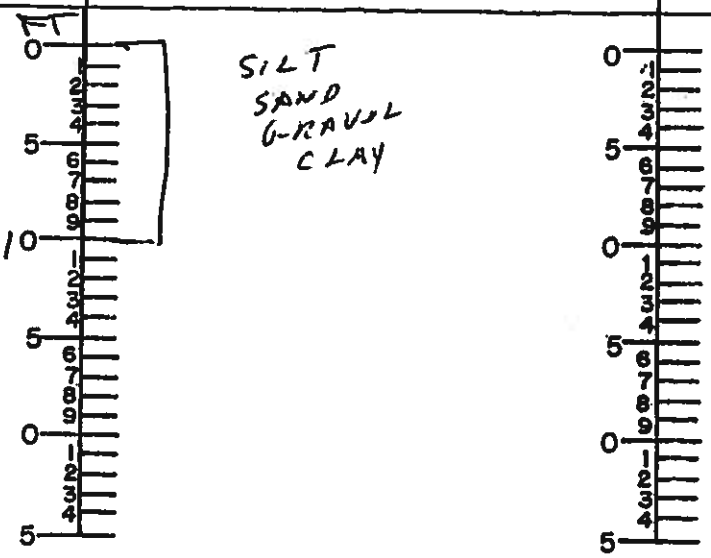
Sample No. 46
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: Thru Oil

Depth	Boring Description	PSI
FT	SILT SAND GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	99	
1/2"		
3/8"		
No. 4	75	25
No. 10	57	
No. 16		
No. 40	26	
No. 50		
No. 100		
No. 200	8	67

Date Reported _____

Liquid Limit 26
Plasticity Index 6
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical / Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-1-b(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date:
Samplers: ZOLA, KERN, HALE, BRADICH

Job Description: US 395 RENO
Station: X 5294 N
Location from CL: ℄
County: WA

Sample No. 47
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0 – 5 – 10 – 0 – 5 – 0 – 5	SILT SAND GRAVEL CLAY ORGANICS	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	90	10
No. 10	79	
No. 16		
No. 40	50	
No. 50		
No. 100		
No. 200	31	59

Date Reported _____

Liquid Limit 24
Plasticity Index 6
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer _____
Expansion Pressure _____
HMCT % No. 4- _____
% No. 4+ _____
Max.Dens. _____
Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
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Rev 4-83

ab No. _____

LINE SAMPLING DATA (FIELD)

.A.No: 71099
'ERT No:
ate: 2-1-84
amplers: ZILA-HALE-KERN-BANOVICH

Job Description: U.S. 395 N
Station: 289+00 SB CL
Location from CL:
County: WA.

ample No. 48
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU oil

Depth	Boring Description	PSI
0	SILT SAND GRAVEL CLAY	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing
3"	
2"	
1 1/2"	
1"	
3/4"	100
1/2"	
3/8"	
No. 4	83 17
No. 10	70
No. 16	
No. 40	43
No. 50	
No. 100	
No. 200	26 57

Date Reported _____

Liquid Limit 24
Plasticity Index 5
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
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Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, KOEN, HALE, BANOVICH

Job Description: US 395 ROAD
Station: XS 284 N
Location from CL: Q
County: WA

Sample No. 49
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THRU OIL

Depth	Boring Description	PSI
0	SILT SAND GRAVEL	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	79	21
No. 10	54	
No. 16		
No. 40	26	
No. 50		
No. 100		
No. 200	16	63

Date Reported _____

Liquid Limit 25
Plasticity Index 4
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-1-b(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV 288-84
C 383-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, HALE, KERN, BANOVICH

Job Description: US 395 RENO
Station: XS 279 ~
Location from CL: ℄
County: WA

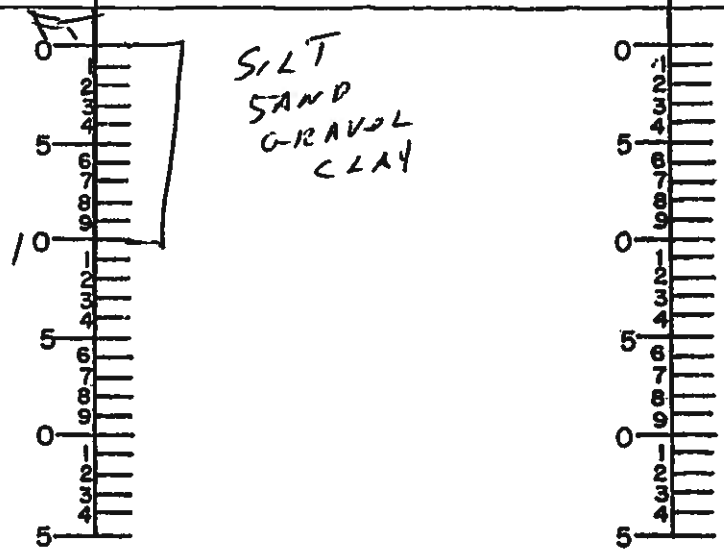
Sample No. 50
Sample Type:
RV ☒ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: USED OIL

Depth	Boring Description	PSI
0	SILT SAND GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	96	
3/8"	89	
No. 4	75	25
No. 10	57	
No. 16	47	
No. 40	34	
No. 50	31	
No. 100	27	
No. 200	23	52

Date Reported

Liquid Limit 25
Plasticity Index 6
Specific Gravity
Resistance Value 69
Cover Thickness
Stabilometer 7"
Expansion Pressure 3 1/2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 23
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 138 ppm
Chloride
Sulphate
pH Factor 8.1
HRB Classification A-1-b(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No.

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers:

Job Description: US 395 Reno
Station: XS 274 ~
Location from CL: ℄
County: WA

Sample No. 51
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: Thru Oil
FILL AREA

Depth	Boring Description	PSI
FT 0–5	SILT SAND GRAVEL CLAY	0–5
5–10		0–5
0–5		0–5

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	79	21
No. 10	68	
No. 16		
No. 40	49	
No. 50		
No. 100		
No. 200	31	48

Liquid Limit 24
Plasticity Index 5
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No._____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 2-1-84
Samplers: ZOLA, KERN, HALE, BANOVICH

Job Description: US 395 REND
Station: XS 269 N
Location from CL: ℄
County: WA

Sample No. 52
Sample Type:
RV ☐ Sub ☒ Chem ☐ DC ☐ Other ☐

Description of Terrain: ROLLING

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: THIN OIL

Depth	Boring Description	PSI
0	SILT SAND GRAVEL CLAY ORGANICS	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Date Reported_____

Sieve Size	% Passing
3"	
2"	
1 1/2"	100
1"	
3/4"	96
1/2"	
3/8"	
No. 4	77 23
No. 10	66
No. 16	
No. 40	45
No. 50	
No. 100	
No. 200	30 47

Liquid Limit 24
Plasticity Index 9
Specific Gravity_____
Resistance Value_____
Cover Thickness_____ Stabilometer_____ Expansion Pressure_____
HMCT % No. 4-_____ % No. 4+_____
Max.Dens._____ Sp.Gr._____
Opt.Moist._____
Calculated Max. Density_____
Sand Equivalent_____
Natural Moisture %_____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3_____
Chloride_____
Sulphate_____
pH Factor_____
HRB Classification A-2-4(0)

Remarks:_____

NDOT
020-046
Rev 4-83

Lab No. RV-289-84
C 384-84

LINE SAMPLING DATA (FIELD)

C.A.No: 7109
PERT No:
Date: 2-1-84
Samplers: ZOLA, KERN, HALE, BANDICH

Job Description: US 395 RENO
Station: XS 264+00
Location from CL: ℄
County: WA

Sample No. 53
Sample Type:
RV [X] Sub [ ] Chem [ ] DC [ ] Other [ ]

Description of Terrain: ROLLING

Vegetation:
Trees [ ] Shrubs [ ] Grassy [ ]
Brushy [ ]

Remarks: THRU OIL

Depth	Boring Description	PSI
FT	SOFT BED ROCK	500 PSI

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	99	
1/2"	97	
3/8"	94	
No. 4	84	16
No. 10	70	
No. 16	61	
No. 40	46	
No. 50	41	
No. 100	34	
No. 200	29	55

Liquid Limit 33
Plasticity Index 10
Specific Gravity
Resistance Value 32
Cover Thickness
Stabilometer 18 1/2
Expansion Pressure 15 1/2
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 16
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
229
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV 452-84 C692-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-21-84
Samplers: Ramsey, Karol, Fisher

Sample No. 54
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: Fence to Lt. ℄ Low area.

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Job Description: U.S. 395, Pond to - to Lemmon Valley
Station: "RG" 14+00
Location from CL: ℄
County: Wa.

Depth	Boring Description	PSI
0–10 ft.	Silty sand w/some Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	99	
3/8"	98	
No. 4	91	9
No. 10	74	
No. 16	62	
No. 40	43	
No. 50	39	
No. 100	34	
No. 200	30	61

Date Reported

Liquid Limit 25
Plasticity Index 2
Specific Gravity
Resistance Value 67
Cover Thickness — Stabilometer 7 1/2" — Expansion Pressure 5"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent 25
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 588
Chloride
Sulphate
pH Factor 9.0
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. ____________________

LINE SAMPLING DATA (FIELD)

.A.No: 71699
ERT No:
ate: 5-21-84
amplers: Remsey, Fielder

ample No. 53
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Toe of small Hillside

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Job Description: U.S. 395, Pr. Hu. - to Lemmon Valley
Station: "KG4" 19+60
Location from CL: 25' Rt. ℄
County: W.Z.

Depth (Ft.)	Boring Description	PSI
0–10	sand & gravel	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	82	18
No. 10	60	
No. 16		
No. 40	29	
No. 50		
No. 100		
No. 200	18	64

Date Reported ____________

Liquid Limit 21
Plasticity Index NP.
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
pH Factor
HRB Classification A-1-b(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____ LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-21-84
Samplers: Ramsey, Fisher

Job Description: U.S. 395 Bridge to Lemmon Valley
Station: "RG" 24+90
Location from CL: E
County: Wa.

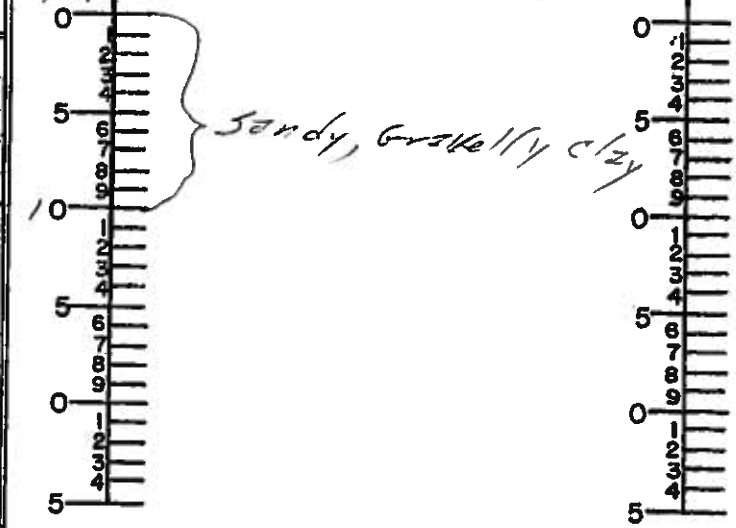
Sample No. 56
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Seepage stream just behind the line

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft.	Sandy, Gravelly Clay	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	96	
1/2"		
3/8"		
No. 4	87	13
No. 10	74	
No. 16		
No. 40	48	
No. 50		
No. 100		
No. 200	30	57

Date Reported _____

Liquid Limit 27
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV 453-84 C693-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-17-84
Samplers: BANOVICH - STENZ - RAMSEY

Job Description: STEAD
Station: RG. #D 700
Location from CL: ℄
County: W

Sample No. #5-7
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks:
DRILLED IN DRAINAGE AREA

Depth	Boring Description	PSI
Ft. 0 – 5 – 10 – 5	SAND SILT CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100	
No. 4	97	3
No. 10	91	
No. 16	85	
No. 40	69	
No. 50	63	
No. 100	52	
No. 200	42	55

Date Reported

Liquid Limit 26
Plasticity Index 6
Specific Gravity
Resistance Value 26
Cover Thickness
Stabilometer 20"
Expansion Pressure 11"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 14
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 76
Chloride
Sulphate
pH Factor 7.7
HRB Classification A-4 (1)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-17-84
Samplers: Dennicky, Steuz, Ramsey

Job Description: STEAD
Station: R6 #1 5700
Location from CL: ℄
County: Wa

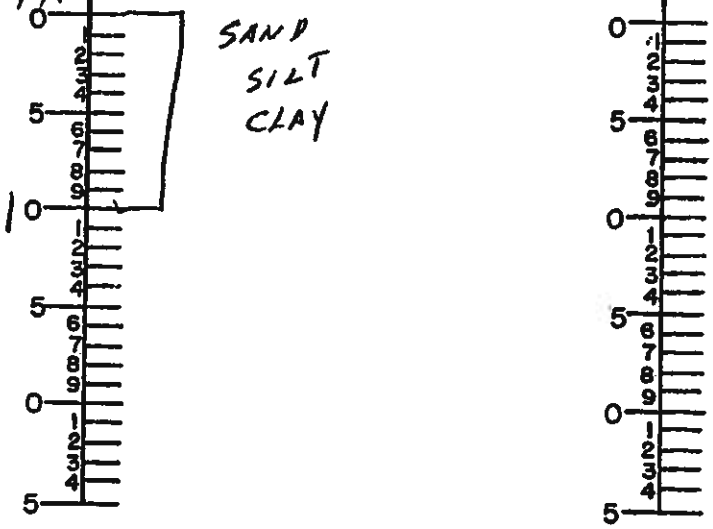
Sample No. #38
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks: DRILLED IN DRAINAGE AREA

Depth	Boring Description	PSI
Ft.	SAND SILT CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	95	5
No. 10	85	
No. 16		
No. 40	61	
No. 50		
No. 100		
No. 200	39	56

Date Reported _____

Liquid Limit 30
Plasticity Index 11
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-6 (1)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV454-84 C694-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-17-84
Samplers: Bznovich, Ramsey, Stenz

Job Description: U.S. 395, Panther to Lemmon Valley
Station: RG1 / 10+00
Location from CL: E
County: Wa

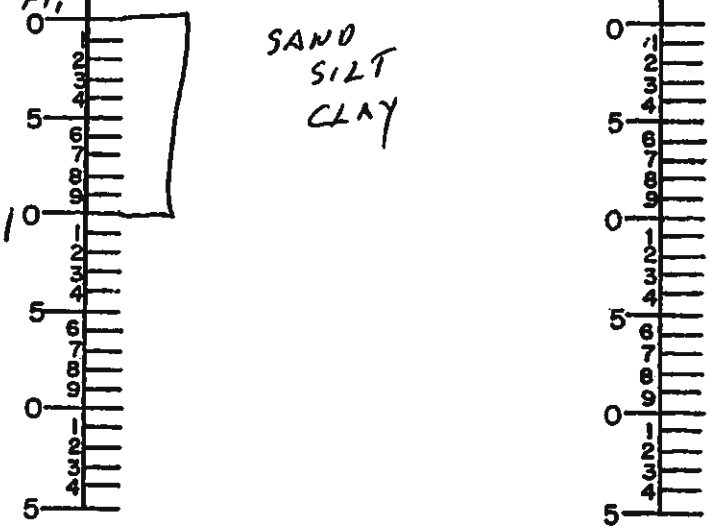
Sample No. #59
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: Rolling

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft.	SAND SILT CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100	
No. 4	97	3
No. 10	91	
No. 16	85	
No. 40	71	
No. 50	66	
No. 100	58	
No. 200	50	47

Date Reported

Liquid Limit 38
Plasticity Index 12
Specific Gravity
Resistance Value 27
Cover Thickness
Stabilometer 19 1/2
Expansion Pressure 18
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 14
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 136.8
Chloride
Sulphate
pH Factor 8.5
HRB Classification A-6(4)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____ LIN[redacted]ING DATA (FIELD)

E.A.No: 7099
PERT No:
Date: 5-17-84
Samplers: Benavidez, Ramsey, Stone

Job Description: U.S. 395, Reno to Lemmon Valley
Station: RG1 15+00
Location from CL: Rt
County: Wa.

Sample No. #60
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: _____

Depth	Boring Description	PSI
Ft. 0	SAND GRAVEL	
5	SUB SURFACE BOULDERS CANT PENETRATE	
0		
5		
0		
5		

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	96	
1/2"		
3/8"		
No. 4	64	-36
No. 10	48	
No. 16		
No. 40	25	
No. 50		
No. 100		
No. 200	15	49

Date Reported _____

Liquid Limit 27
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____

Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____

pH Factor _____
HRB Classification A-2-4(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV-455-84 C695-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher - Banovich - Ramsey

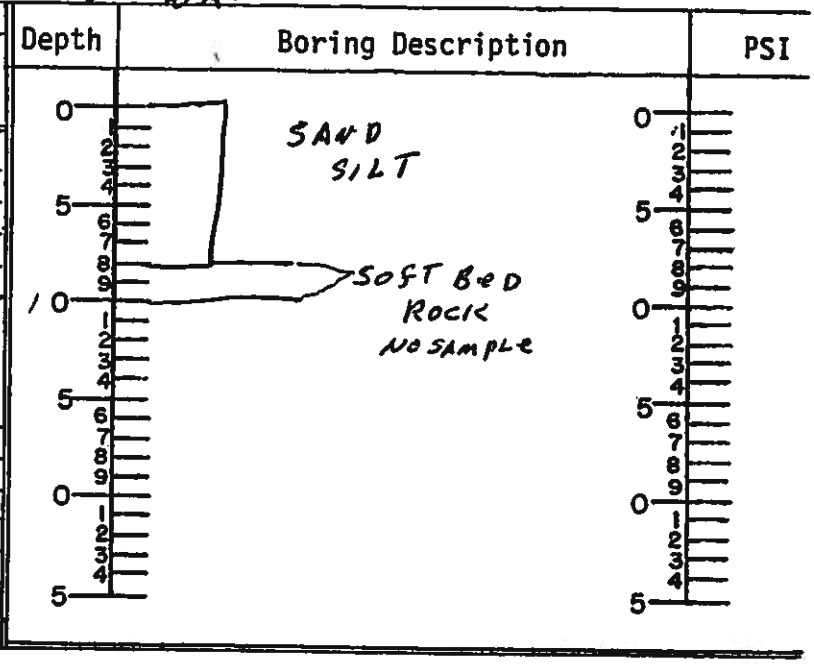
Job Description: Golden Valley
Station: R61 207+00
Location from CL: ℄
County: WA.

Sample No. 61
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks:



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	98	
1/2"	97	
3/8"	96	
No. 4	93	7
No. 10	76	
No. 16	62	
No. 40	39	
No. 50	34	
No. 100	26	
No. 200	20	73

Date Reported

Liquid Limit 25
Plasticity Index 6
Specific Gravity
Resistance Value 53
Cover Thickness
Stabilometer 11/2
Expansion Pressure 3
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 29
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 42.2
Chloride
Sulphate
pH Factor 7.7
HRB Classification A-1-b(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV456-84 C696-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher - Banovich - Ramsey

Job Description: Golden Valley
Station: RG2 3+00
Location from CL: ℄
County: W.A.

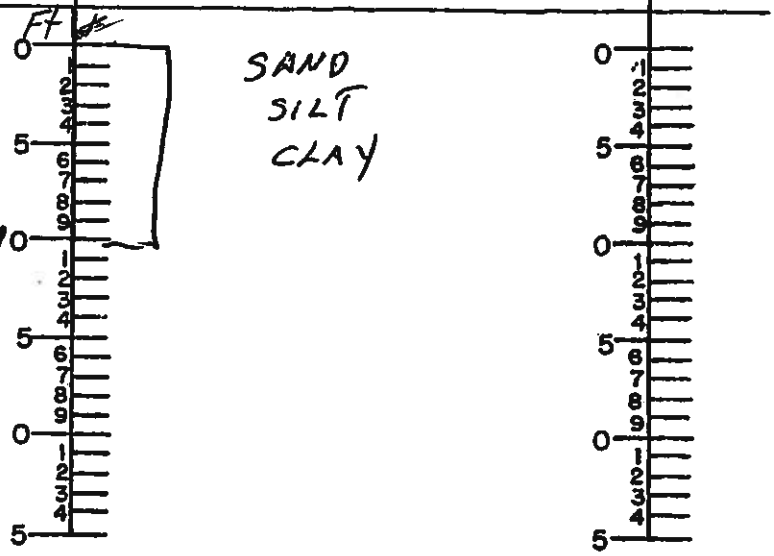
Sample No. 62
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
FT	SAND SILT CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	99	
3/8"	98	
No. 4	94	6
No. 10	83	
No. 16	74	
No. 40	56	
No. 50	51	
No. 100	41	
No. 200	32	62

Date Reported

Liquid Limit 26
Plasticity Index 10
Specific Gravity
Resistance Value 22
Cover Thickness
Stabilometer 21/2
Expansion Pressure 13"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 15
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 158
Chloride
Sulphate
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher - Banovich - Ramsey

Job Description: Golden Valley
Station: RP-2 8+00
Location from CL: ℄
County: Wh.

Sample No. 63
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: _____

Depth	Boring Description	PSI
Fill 0	SAND SILT CLAY GRAVEL	0
5		5
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	95	
1/2"		
3/8"		
No. 4	89	11
No. 10	80	
No. 16		
No. 40	54	
No. 50		
No. 100		
No. 200	31	58

Liquid Limit 25
Plasticity Index 11
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6(0)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV457-84 C697-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: FISHER-BANOVICH - RAMSEY

Job Description: GOLDEN VALLEY
Station: RG2 13+00
Location from CL: ℄
County: CLA

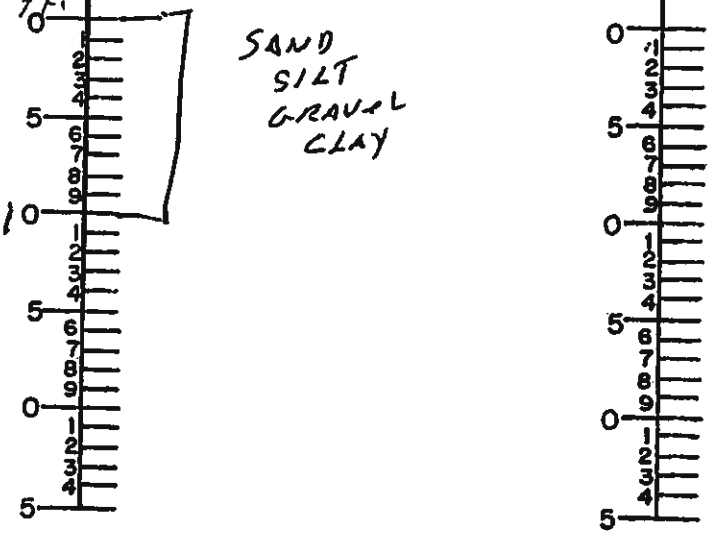
Sample No. 64
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft. 0	SAND SILT GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	98	
3/8"	97	
No. 4	91	9
No. 10	75	
No. 16	63	
No. 40	41	
No. 50	37	
No. 100	28	
No. 200	22	69

Date Reported

Liquid Limit 26
Plasticity Index 9
Specific Gravity
Resistance Value 12
Cover Thickness
Stabilometer 24 1/2
Expansion Pressure 0
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 23
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 60.8
Chloride
Sulphate
pH Factor 7.7
HRB Classification A-2-4(0)

Remarks:

NDOT
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Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher - Banovich - Ramsey

Job Description: Golden Valley
Station: RC-2 18+00
Location from CL: ℄
County: Wa.

Sample No. 65
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: _____

Depth	Boring Description	PSI
Ft. 0 – 5 – 10 – 0 – 5 – 0 – 5	SILT SAND CLAY	0 – 5 – 0 – 5 – 0 – 5

LABORATORY ANALYSES

Date Reported _____

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	87	13
No. 10	76	
No. 16		
No. 40	49	
No. 50		
No. 100		
No. 200	29	58

Liquid Limit 31
Plasticity Index 14
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6(1)

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV458-84 C698-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher - Manovich - Ramsey

Job Description: Golden Valley
Station: RP3 2700
Location from CL: ℄
County: Wh.

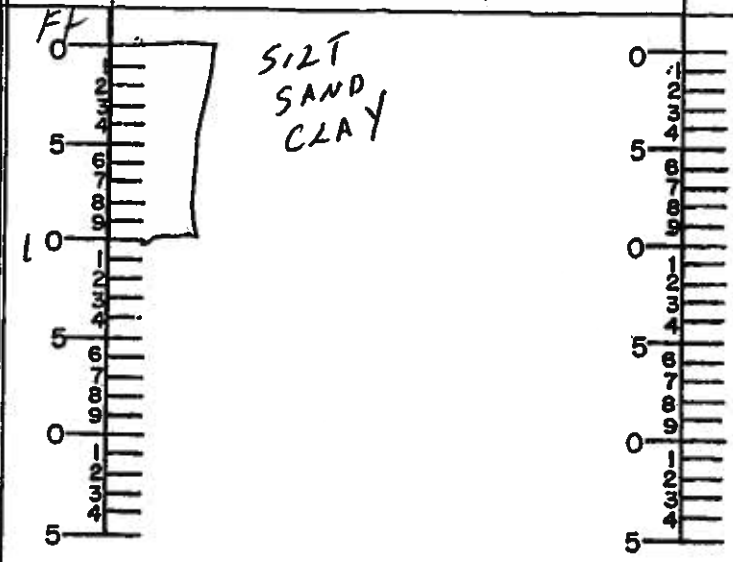
Sample No. 66
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft	SILT SAND CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100	
No. 4	99	1
No. 10	88	
No. 16	77	
No. 40	56	
No. 50	51	
No. 100	42	
No. 200	32	67

Date Reported

Liquid Limit 23
Plasticity Index 5
Specific Gravity
Resistance Value 26
Cover Thickness 20"
Stabilometer
HMCT % No. 4-
Max.Dens.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 22
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor 8.5
HRB Classification A-2-4(0)

Expansion Pressure 4 1/2
% No. 4+
Sp.Gr.

Parts Per Million
112

Remarks:

NDOT
020-046
Rev 4-83

Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher-Banovich-Ramsey

Job Description: Golden Valley
Station: RL3 7+00
Location from CL: 30' RT.
County: Wa

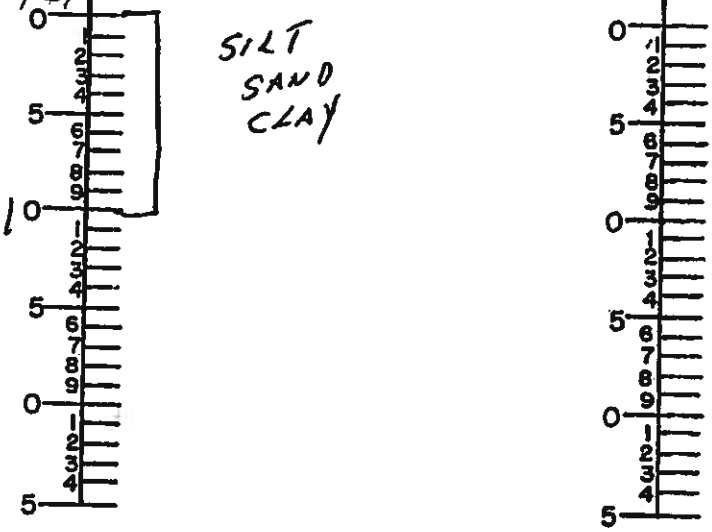
Sample No. 67
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: _____

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: _____

Depth	Boring Description	PSI
Fl. 0	SILT SAND CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	94	6
No. 10	84	
No. 16		
No. 40	56	
No. 50		
No. 100		
No. 200	29	6.5

Date Reported _____

Liquid Limit 25
Plasticity Index 10
Specific Gravity _____
Resistance Value _____
Cover Thickness _____
Stabilometer
HMCT % No. 4- _____
Max.Dens. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor _____
HRB Classification A-2-4(0)

Expansion Pressure
% No. 4+ _____
Sp.Gr. _____

Parts Per Million

Remarks: _____

NDOT
020-046
Rev 4-83

Lab No. RV459-84 C699-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher-Banovich-Ramsey

Job Description: Golden Valley
Station: RG3 12+00
Location from CL: ℄
County: WA

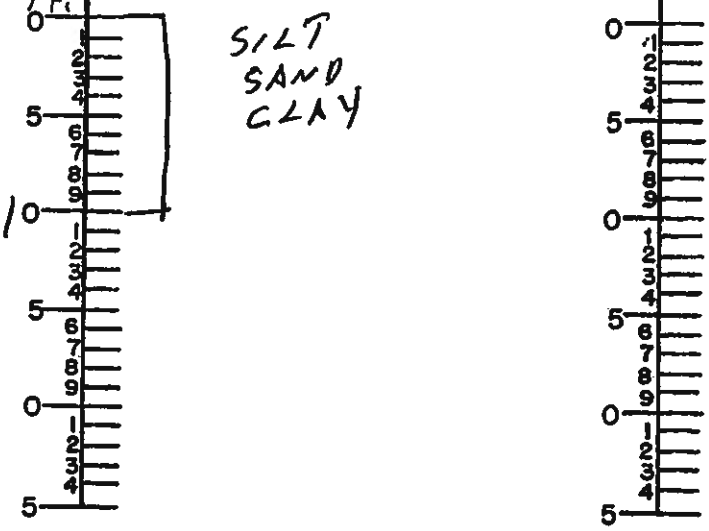
Sample No. 68
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: Drilled in Drainage Area

Depth Ft.	Boring Description	PSI
0 – 10	SILT SAND CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	98	
1/2"	96	
3/8"	95	
No. 4	90	10
No. 10	80	
No. 16	71	
No. 40	53	
No. 50	48	
No. 100	38	
No. 200	30	60

Date Reported

Liquid Limit 26
Plasticity Index 5
Specific Gravity
Resistance Value 28
Cover Thickness
Stabilometer 19 1/2
Expansion Pressure 12 1/2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 16
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 199
Chloride
Sulphate
pH Factor 8.3
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV 460-84 C 700-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher-Banovich-Ramsey

Job Description: Golden Valley
Station: G.V. 1+00
Location from CL: 10' RT.
County: WA

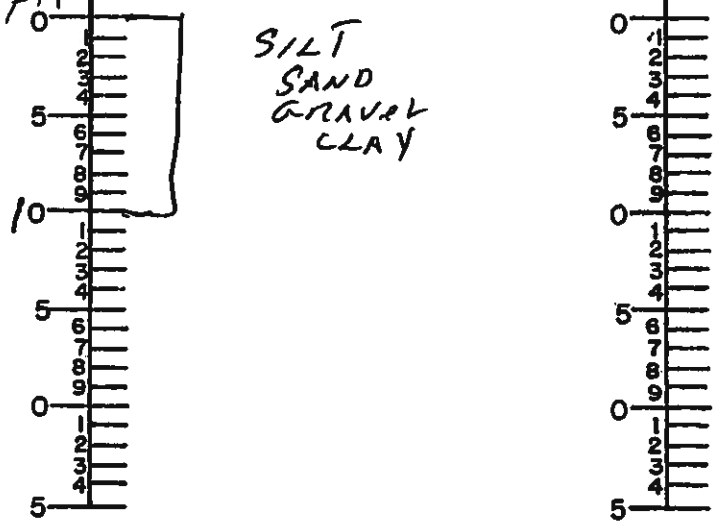
Sample No. 69
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth	Boring Description	PSI
Ft.	SILT SAND GRAVEL CLAY	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	97	
1/2"	94	
3/8"	91	
No. 4	84	16
No. 10	73	
No. 16	65	
No. 40	49	
No. 50	44	
No. 100	36	
No. 200	30	54

Date Reported

Liquid Limit 28
Plasticity Index 5
Specific Gravity
Resistance Value 61
Cover Thickness
Stabilometer 9 1/2"
Expansion Pressure 5 1/2"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 23
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 208
Chloride
Sulphate
pH Factor 8.3
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV 461-84 C 701-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-18-84
Samplers: Fisher-Barwick-Ramsey

Job Description: GOLDEN VALLEY
Station: G.V. 9+00
Location from CL: 20' LT.
County: WA.

Sample No. 70
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft. 0	SAND SILT GRAVEL	0
5		5
8.	BED ROCK.	
10		0
5		5
0		0
5		5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	97	
1/2"	96	
3/8"	93	
No. 4	82	18
No. 10	66	
No. 16	55	
No. 40	37	
No. 50	32	
No. 100	24	
No. 200	19	63

Date Reported

Liquid Limit 23
Plasticity Index 5
Specific Gravity
Resistance Value 60
Cover Thickness
Stabilometer 9 1/2"
Expansion Pressure 4"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 70
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 83.2
Chloride
Sulphate
pH Factor 7.9
HRB Classification A-1-b(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV-462-84 C702-84

LINE SAMPLING DATA (FIELD)

E.A.No: 7099
PERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Sample No. 71
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

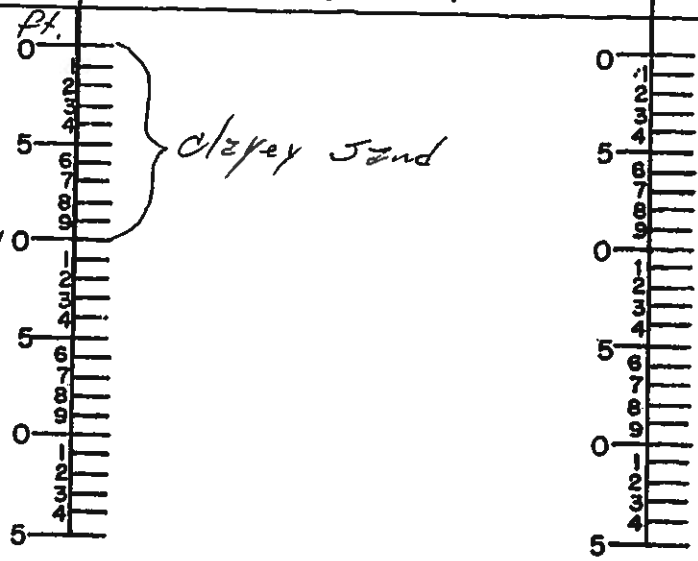
Description of Terrain: Borrow ditch

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks:

Job Description: U.S. 395, P=n Fwy to Lemmon Valley
Station: "RLV" 2+00
Location from CL: ℄
County: Washoe

Depth	Boring Description	PSI
Ft. 0	Clayey Sand	
10		



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"	100	
3/8"	99	
No. 4	94	6
No. 10	78	
No. 16	68	
No. 40	51	
No. 50	46	
No. 100	36	
No. 200	27	67

Date Reported

Liquid Limit 24
Plasticity Index 11
Specific Gravity
Resistance Value 48
Cover Thickness
Stabilometer 13 1/2"
Expansion Pressure 5"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 16
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 64
Chloride
Sulphate
pH Factor 7.8
HRB Classification A-2-6(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No.

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kern

Job Description: U.S.395, Panther to Lemmon Valley
Station: "RLV1" 7+00
Location from CL: ℄
County: Washoe

ample No. 72
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth (ft.)	Boring Description	PSI
0–10	clayey sand	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	96	
1/2"		
3/8"		
No. 4	90	10
No. 10	78	
No. 16		
No. 40	47	
No. 50		
No. 100		
No. 200	24	66

Date Reported

Liquid Limit 25
Plasticity Index 12
Specific Gravity
Resistance Value
Cover Thickness — Stabilometer — Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-2-6(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV-463-84 C-703-84

LINE SAMPLING DATA (FIELD)

.A.No: 7099
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Fenelon to Lemmon Valley
Station: "RL V." 13+00
Location from CL: ℄
County: Washoe

ample No. 73
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: Toe of steep hill, bottom of wash.

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft. 0 – 10	Clayey sand & Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	95	
1/2"	89	
3/8"	84	
No. 4	78	22
No. 10	67	
No. 16	58	
No. 40	42	
No. 50	38	
No. 100	30	
No. 200	23	55

Date Reported

Liquid Limit 23
Plasticity Index 10
Specific Gravity
Resistance Value 14
Cover Thickness
Stabilometer 24"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 20
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor 7.7
HRB Classification A-2-4(0)

Expansion Pressure
% No. 4+
Sp.Gr.

Parts Per Million
51

Remarks:

NDOT
020-046
Rev 4-83

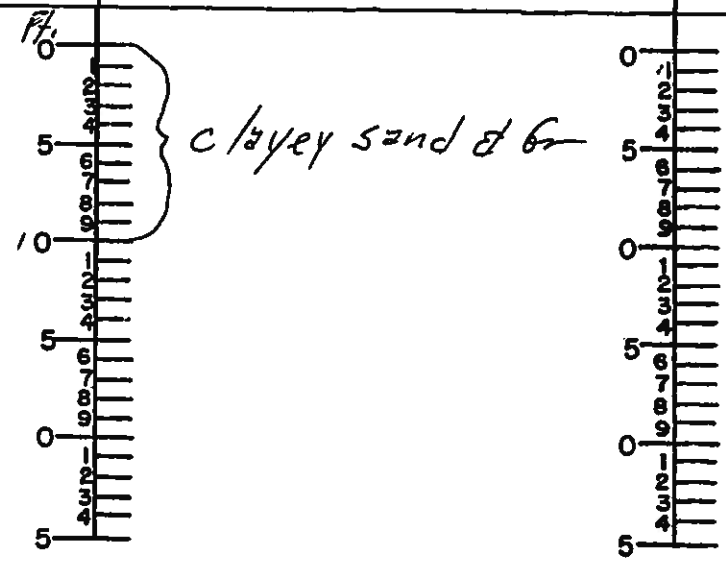
ab No. _____ LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-23-84
amplers: Fisher, Kerry, Ramsey

Job Description: U.S. 395 & Further to Lemmon Valley
Station: "RLV2" 5+00
Location from CL: ℄
County: Washoe

ample No. 74
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Depth | Boring Description | PSI



Description of Terrain: Sand & oil stained stock pile area. Ride share parking area.

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks: _____

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	99	
1/2"		
3/8"		
No. 4	83	17
No. 10	74	
No. 16		
No. 40	63	
No. 50		
No. 100		
No. 200	43	40

Date Reported _____

Liquid Limit 29
Plasticity Index 9
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-4(2)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-23-84
Samplers: Fisher, Kern, Ramsey

Job Description: U.5395 Pavilion to Lemmon Valley
Station: "RLVL" 10+00
Location from CL: ℄
County: Washoe

Sample No. 75
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Top of Backslope

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft. 0 – 5	Clayey Sand	0 – 5
10 – 15		0 – 5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	90	10
No. 10	78	
No. 16		
No. 40	54	
No. 50		
No. 100		
No. 200	33	57

Date Reported _____

Liquid Limit 31
Plasticity Index 13
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6(1)

Remarks: _____

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Lab No.

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-23-84
Samplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Panther to Lemmon Valley
Station: "RLV2" 1540
Location from CL: 0
County: Washoe

Sample No. 76
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Top of 395 backslope

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth (Ft.)	Boring Description	PSI
0–10	clayey sand & Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	97	
1/2"		
3/8"		
No. 4	75	25
No. 10	62	
No. 16		
No. 40	44	
No. 50		
No. 100		
No. 200	26	49

Date Reported

Liquid Limit 25
Plasticity Index 7
Specific Gravity
Resistance Value
Cover Thickness Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical: CO_3 & HCO_3, Chloride, Sulphate
Parts Per Million
pH Factor
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV 464-84 C 704-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
'ERT No:
)ate: 5-23-84
)amplers: Fisher, Ramsey, Kerr

Job Description: U.S. 395, Panther to Lemmon Valley
Station: "RLV2" 20+00
Location from CL: Q
County: Washoe

)ample No. 77
)ample Type:
RV ☒ Sub ☐ Chem ☐ DC ☒ Other ☐

Description of Terrain: Emergency park lane. Fill

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth Ft.	Boring Description	PSI
0	7" o.l, 4½" Base	
5	Sandy, Gravelly Clay	
10		
5		
0		
5		

LABORATORY ANALYSES

Date Reported

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	97	
1/2"	95	
3/8"	91	
No. 4	82	18
No. 10	72	
No. 16	66	
No. 40	55	
No. 50	52	
No. 100	45	
No. 200	38	44

Liquid Limit 29
Plasticity Index 14
Specific Gravity
Resistance Value 23
Cover Thickness
Stabilometer 21"
Expansion Pressure 0
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 10
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 40
Chloride
Sulphate
pH Factor 7.2
HRB Classification A-6(2)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV465-84 C705-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Job Description: U.S.395, Panther to Lemmon Valley
Station: "RLV3" 0+00
Location from CL: ℄
County: Washoe

Sample No. 78
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Depth	Boring Description	PSI
Ft. 0–10	Clayey sand & Gr w/some +4" near surface	

Description of Terrain: Lt. of ℄'s "RLV3", "RLV4" & L.V. start of Wash

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"	97	
3/4"	86	
1/2"	82	
3/8"	76	
No. 4	65	35
No. 10	54	
No. 16	48	
No. 40	36	
No. 50	32	
No. 100	26	
No. 200	21	44

Date Reported

Liquid Limit 26
Plasticity Index 14
Specific Gravity
Resistance Value 29
Cover Thickness — Stabilometer 19" — Expansion Pressure 13"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent 18
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 90
Chloride
Sulphate
pH Factor 7.5
HRB Classification A-2-6(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV466-84 C706-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Panther to Lemmon Valley
Station: "RLV" 5+00
Location from CL: Q
County: Washoe

ample No. 79
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

Depth | Boring Description | PSI

Fl.
0
5
10
clayey sand & Gr.

escription of Terrain: Borrow ditch of existing fill

egetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

emarks:

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"	99	
3/8"	99	
No. 4	95	5
No. 10	63	
No. 16	22	
No. 40	53	
No. 50	47	
No. 100	36	
No. 200	28.	67

Date Reported

Liquid Limit 26
Plasticity Index 13
Specific Gravity
Resistance Value 32
Cover Thickness Stabilometer 18 1/2
HMCT % No. 4-
Max.Dens.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 15
Natural Moisture %
Soluble Salt: Radical
CO_3 & HCO_3
Chloride
Sulphate
pH Factor 7.4
HRB Classification A-2-6(0)

Expansion Pressure
% No. 4+
Sp.Gr.

Parts Per Million
56

Remarks:

NDOT
020-046
Rev 4-83

ab No.

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-21-84
amplers: Fisher, Ramsey, Ker[illegible]

Job Description: 4.5395 [illegible] Lemmon Valley
Station: "RLV3" 16+00
Location from CL: ℄
County: W.E.

ample No. 86
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain:

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth (Ft)	Boring Description	PSI
0–20	clayey, silty sand & Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	87	13
No. 10	77	
No. 16		
No. 40	63	
No. 50		
No. 100		
No. 200	39	48

Date Reported

Liquid Limit 27
Plasticity Index 9
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical CO_3 & HCO_3, Chloride, Sulphate
Parts Per Million
pH Factor
HRB Classification A-4(1)

Remarks:

NDOT
020-046
Rev 4-83

ab No.

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-21-84
amplers: Ramsey, Kern, Fisher

Job Description: U.S. 395 Panther to Lemmon Valley
Station: "RLVs" 15+00
Location from CL: ℄
County: W/a

ample No. E1
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Dry from runoff of garden irrigation.

egetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

emarks:

Depth (Ft)	Boring Description	PSI
0–10	clayey sand & Gr	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	98	
1/2"		
3/8"		
No. 4	67	33
No. 10	55	
No. 16		
No. 40	40	
No. 50		
No. 100		
No. 200	24	43

Date Reported

Liquid Limit 27
Plasticity Index 8
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
pH Factor
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV467-84 C707-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-21-84
Samplers: Kera, Ramsey, Fisher

Sample No. 82
Sample Type:
RV [x] Sub [ ] Chem [ ] DC [ ] Other [ ]

Job Description: U.S. 395 Panther to Lemmon Valley
Station: "RLV3" 17+50
Location from CL: ℄
County: WA

Depth Ft.	Boring Description	PSI
0–10	clayey sand & Gr.	

Description of Terrain:

Vegetation:
Trees [ ] Shrubs [ ] Grassy [x]
Brushy [x]

Remarks:

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"	99	
3/4"	92	
1/2"	85	
3/8"	76	
No. 4	61	39
No. 10	48	
No. 16	43	
No. 40	34	
No. 50	31	
No. 100	26	
No. 200	21	40

Date Reported

Liquid Limit 26
Plasticity Index 7
Specific Gravity
Resistance Value 10
Cover Thickness — Stabilometer 25" — Expansion Pressure 9"
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent 22
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 48
Chloride
Sulphate
pH Factor 8.2
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV 468-84 C 708-84

LINE SAMPLING DATA (FIELD)

T.A.No: 71099
PERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Sample No. 83
Sample Type:
RV ☑ Sub ☐ Chem ☐ DC ☑ Other ☐

Job Description: 4.5.395, Panther to Lemon Valley
Station: "RLV" 0+00
Location from CL: 2
County: Washoe

Description of Terrain: Sampling Emergency ~~time~~ parking lane

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth	Boring Description	PSI
ft.		
0	2½" oil, 4½" C.T.B.	
5	clayey sand — f: 11 mm	
0		
5		
0		
5		

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"	100	
No. 4	95	5
No. 10	82	
No. 16	71	
No. 40	52	
No. 50	47	
No. 100	38	
No. 200	30	65

Date Reported

Liquid Limit 27
Plasticity Index 14
Specific Gravity
Resistance Value 22
Cover Thickness
Stabilometer 21/2
Expansion Pressure 13"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 14
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3 101.6
Chloride
Sulphate
pH Factor 8.0
HRB Classification A-2-6 (1)

Remarks:

NDOT
020-046
Rev 4-83

Lab No. RV469-84 C709-84

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
FERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Reno to Lemmon Valley
Station: "RLV4" 5+50
Location from CL: ℄
County: Washoe

Sample No. 84
Sample Type:
RV ☒ Sub ☐ Chem ☐ DC ☐ Other ☐

Description of Terrain: Borrow ditch of existing T.W.
Back slope grassy & Brushy

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☐

Remarks:

Depth	Boring Description	PSI
Ft. 0–10	Clayey sand & G	0–5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"		
1/2"	100	
3/8"	99	
No. 4	96	H
No. 10	83	
No. 16	73	
No. 40	53	
No. 50	47	
No. 100	36	
No. 200	28	68

Date Reported

Liquid Limit 27
Plasticity Index 10
Specific Gravity
Resistance Value 12
Cover Thickness
Stabilometer 24 1/2
Expansion Pressure 15"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 14
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
207
pH Factor 8.4
HRB Classification A-2-4(0)

Remarks:

NDOT
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.ab No. ______________________

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kern

Job Description: U.S.395, Panther to Lemmon Valley
Station: "RLV4" 10+00
Location from CL: ℄
County: Washoe

ample No. 85
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Hillside

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth	Boring Description	PSI
ft. 0–10	Clayey Sand & Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	92	8
No. 10	76	
No. 16		
No. 40	41	
No. 50		
No. 100		
No. 200	20	72

Date Reported ________

Liquid Limit 26
Plasticity Index 13
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Radical Salt: CO_3 & HCO_3
Chloride
Sulphate
Parts Per Million
pH Factor
HRB Classification A-2-6(0)

Remarks:

NDOT
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Lab No. _____

LINE SAMPLING DATA (FIELD)

T.A.No: 71099
PERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Job Description: U.S. 395 Panther to Lemmon Valley
Station: "RLV4" 157+00
Location from CL: ℄
County: Washoe

Sample No. 86
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Top of small ridge

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks: _____

Depth	Boring Description	PSI
ft. 0 – 5	Clayey sand & Cr. w/some +4"	
10 – 15		

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	95	
1/2"		
3/8"		
No. 4	71	29
No. 10	60	
No. 16		
No. 40	40	
No. 50		
No. 100		
No. 200	28	43

Date Reported _____

Liquid Limit 25
Plasticity Index 13
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-2-6 (0)

Remarks: _____

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Lab No. _____

LINE SAMPLING DATA (FIELD)

E.A.No: 71099
PERT No:
Date: 5-22-84
Samplers: Fisher, Kern, Ramsey

Job Description: U.S. 395, Reno to Lemmon Valley
Station: "LPLV4" 20+00
Location from CL: E
County: Washoe

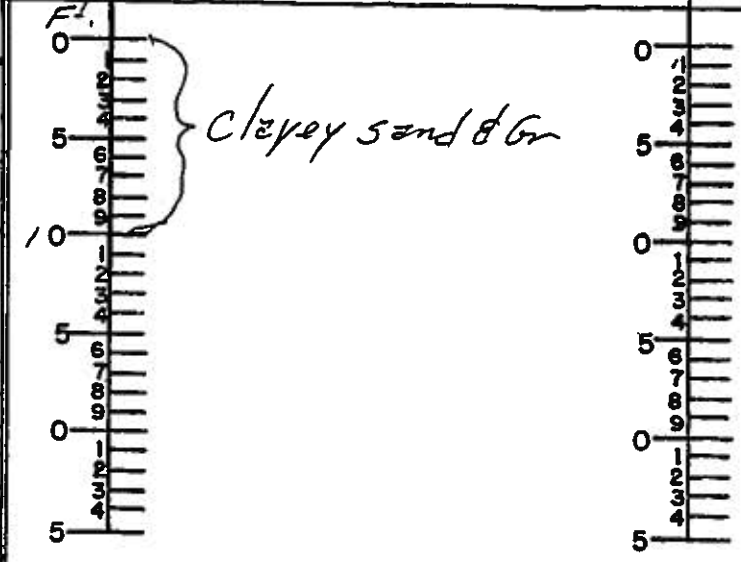
Sample No. 87
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Edge of very old & abandoned Paved T.W

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☐
Brushy ☑

Remarks:

Depth	Boring Description	PSI
Ft. 0 – 10	Clayey sand & Gr	



LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	94	
1/2"		
3/8"		
No. 4	71	29
No. 10	65	
No. 16		
No. 40	57	
No. 50		
No. 100		
No. 200	40	31

Date Reported _____

Liquid Limit 28
Plasticity Index 11
Specific Gravity _____
Resistance Value _____
Cover Thickness _____ Stabilometer _____ Expansion Pressure _____
HMCT % No. 4- _____ % No. 4+ _____
Max.Dens. _____ Sp.Gr. _____
Opt.Moist. _____
Calculated Max. Density _____
Sand Equivalent _____
Natural Moisture % _____
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 _____
Chloride _____
Sulphate _____
pH Factor _____
HRB Classification A-6(1)

Remarks: _____

NDOT
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Lab No.

LINE SAMPLING DATA (FIELD)

E.A.No: 70 99
PERT No:
Date: 5-22-84
Samplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Panther to Lemmon Valley
Station: "LV" 23+80
Location from CL: ⊈
County: Washoe

Sample No. 88
Sample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Hillside

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth (Ft)	Boring Description	PSI
0–10	Clayey Sand & Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"		
3/4"	100	
1/2"		
3/8"		
No. 4	91	9
No. 10	81	
No. 16		
No. 40	53	
No. 50		
No. 100		
No. 200	29	62

Date Reported

Liquid Limit 25
Plasticity Index 7
Specific Gravity
Resistance Value
Cover Thickness / Stabilometer / Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical / Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor
HRB Classification A-2-4(0)

Remarks:

NDOT
020-046
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ab No.

LINE SAMPLING DATA (FIELD)

.A.No: 71699
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kern

Job Description: U.S. 395, Panther to
Station: "2 V" 267+20.55
Location from CL: ℄ 26
County: Washoe

ample No. 89
ample Type:
RV ☐ Sub ☑ Chem ☐ DC ☐ Other ☐

Description of Terrain: Toe of slope of 395 & in Btm of Wash

Vegetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

Remarks:

Depth Ft.	Boring Description	PSI
0–10		

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"		
3/4"	93	
1/2"		
3/8"		
No. 4	70	30
No. 10	62	
No. 16		
No. 40	44	
No. 50		
No. 100		
No. 200	24	46

Date Reported

Liquid Limit 26
Plasticity Index 11
Specific Gravity
Resistance Value
Cover Thickness
Stabilometer
Expansion Pressure
HMCT % No. 4-
Max.Dens.
Opt.Moist.
% No. 4+
Sp.Gr.
Calculated Max. Density
Sand Equivalent
Natural Moisture %
Soluble Salt: Radical CO_3 & HCO_3, Chloride, Sulphate
Parts Per Million
pH Factor
HRB Classification A-2-6(0)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV470-84 C710-84

LINE SAMPLING DATA (FIELD)

.A.No: 71099
ERT No:
ate: 5-22-84
amplers: Fisher, Ramsey, Kerr

Job Description: U.S. 395, Fenton to Lemmon Valley
Station: "LV" 29+05
Location from CL: ℄
County: Washoe

ample No. 90
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

escription of Terrain: Side hill O.H. power line to Rt. of "LV", "RLV" & "RLV"

egetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☑

emarks:

Depth	Boring Description	PSI
0	clayey sand & small amount Gr.	

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"		
1"	100	
3/4"	97	
1/2"	97	
3/8"	96	
No. 4	93	7
No. 10	85	
No. 16	76	
No. 40	58	
No. 50	52	
No. 100	42	
No. 200	33	60

Date Reported

Liquid Limit 25
Plasticity Index 13
Specific Gravity
Resistance Value 15
Cover Thickness Stabilometer 23 1/2"
Expansion Pressure 0
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 15
Natural Moisture %
Soluble Salt: Radical — Parts Per Million
CO_3 & HCO_3 49
Chloride
Sulphate
pH Factor 7.6
HRB Classification A-2-6(1)

Remarks:

NDOT
020-046
Rev 4-83

ab No. RV471-84 C711-84

LINE SAMPLING DATA (FIELD)

A.No: 71099
RT No:
te: 5-23-84
amplers: Fisher, Kern, Ramsey

Job Description: U.S. 395, Panther to Lemmon Valley
Station: "LV" 33+50
Location from CL: ℄
County: Washoe

ample No. 91
ample Type:
RV ☑ Sub ☐ Chem ☐ DC ☐ Other ☐

escription of Terrain: old abandoned LV. Approach

egetation:
Trees ☐ Shrubs ☐ Grassy ☑
Brushy ☐

emarks:

Depth Ft.	Boring Description	PSI
0–5	clayey sand & Gr.	0–5
5–10		0–5
10–15		0–5

LABORATORY ANALYSES

Sieve Size	% Passing	
3"		
2"		
1 1/2"	100	
1"	98	
3/4"	94	
1/2"	89	
3/8"	86	
No. 4	78	22
No. 10	68	
No. 16	62	
No. 40	49	
No. 50	45	
No. 100	38	
No. 200	32	46

Date Reported

Liquid Limit 32
Plasticity Index 18
Specific Gravity
Resistance Value 16
Cover Thickness
Stabilometer 23½"
Expansion Pressure 5½"
HMCT % No. 4-
% No. 4+
Max.Dens.
Sp.Gr.
Opt.Moist.
Calculated Max. Density
Sand Equivalent 13
Natural Moisture %
Soluble Salt: Radical
Parts Per Million
CO_3 & HCO_3
Chloride
Sulphate
pH Factor 7.4
HRB Classification A-2-6(1)

Remarks:

NDOT
020-046
Rev 4-83