

Location Map:

see MW03



Compliance | Engineering | Remediation
 LT Environmental, Inc.
 4600 West 60th Ave.
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: ~~AMW03~~ AMW04 Project: Nishimoto George GU #1

Date: 8/17/2015 Project Number: KMG05131.2

Logged By: Andy Verbonitz G.I.T. Drilled By: Site Services

Elevation: NA Detector: MiniRae 3000 Drilling Method: Track Probe 7730 DT Sampling Method: Continuous

Gravel Pack: 10-20 silica sand Seal: bentonite Grout: none

Casing Type: PVC Diameter: 1" Length: 3' Hole Diameter: 2.25' Depth to Liquid: —

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 10' Total Depth: 11' Depth to Water: ~5'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC SW Well Completion |
|------------------------|------------------|-------------|----------|------------------|------------------|--------------------|----------------|---|------------------------|
| Soft | moist | ⊗ | none | | 0 | | | 0-4' | |
| | ↓ | ⊗ | ↓ | | 2 | 5/3 | SC/SM | sandy (ufg-fg) silt w/ clay, dry to moist, brown, no stain, no odor | |
| | ↓ | ⊗ | ↓ | | 4 | | --- | | |
| | ↓ | ⊗ | ↓ | | 6 | 5/3 | SP | 4-11' | |
| | ↓ | 142 | ↓ | | 8 | | | sand (fg-mg) w/ some gravel, wet @ 5' bgs, coarsening downward w/ stain and odor from 9-10' | |
| | ↓ | 12.3 | none | AMW04R @ 9' 1120 | 10 | 1/1 | | | |
| | | | | | 12 | | | | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Location Map:

MW08

AMW01R

MW02R



MW01R

LR

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW01R

Project:

Nishimoto George GU #1

Date:

8/17/2015

Project Number:

KMG05131.2

Logged By:

Andy Verbonitz G.I.T.

Drilled By:

Site Services

Elevation:

NA

Detector:

MiniRae 3000

Drilling Method:

Track Probe 7730 DT

Sampling Method:

Continuous

Gravel Pack:

10-20 silica sand

Seal:

bentonite

Grout:

concrete

Casing Type:

PVC

Diameter:

1"

Length:

1'

Hole Diameter:

2.25'

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

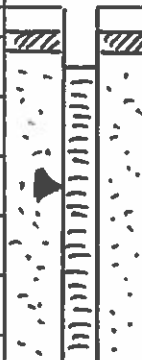
10'

Total Depth:

11'

Depth to Water:

~5'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | Flush Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|--|--|
| Soft | moist | | none | | 0 | | | 0-6' - hand auger, not logged, no stain, no odor from pothole, water in pothole |  |
| | | | | | 2 | | | | |
| | | | | | 4 | | | | |
| | wet | 5 | ? | | 6 | | | | |
| | | | | | 8 | 4/0.5 | SP | 6-10' partial recovery - silty sand (vfg) w/ gravel and minor clay, dark brown, wet, no stain, no odor | |
| | | 5.3 | none | | 10 | | | | |
| | | 2.8 | | | 12 | 2/2 | | | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | 10-12' gravelly sand (vcg), wet, no stain, no odor | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |
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Location Map:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **MW02R** Project: **Nishimoto George GU #1**

Date: **8/17/2015** Project Number: **KMG05131.2**

Logged By: **Andy Verbonitz G.I.T.** Drilled By: **Site Services**

Elevation: **NA** Detector: **MiniRae 3000** Drilling Method: **Track Probe 7730 DT** Sampling Method: **Continuous**

Gravel Pack: **10-20 silica sand** Seal: **bentonite** Grout: **concrete**

Casing Type: **PVC** Diameter: **1"** Length: **3'** Hole Diameter: **2.25"** Depth to Liquid: **—**

Screen Type: **PVC** Slot: **0.01** Diameter: **1"** Length: **10'** Total Depth: **13'** Depth to Water: **~5'**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | Flush Well Completion |
|------------------------|------------------|-------------|----------|--------------|------------------|--------------------|----------------|---|-----------------------|
| | | | | | 0 | | | 0-6' - not logged, pothole, no stain, no odor from hole | |
| | | | | | 2 | | | | |
| | | | | | 4 | | | | |
| | | | | | 6 | | | | |
| Soft | wet | 52.1 | none | 02R@8' 1240 | 8 | 4/3 | sc/sm | 6-7' silty sand (ufg) w/ clay, stain, odor, wet | |
| | | 1483 | | 02R@10' 1245 | 10 | | sw | 8-13' sand (ufg-vcg) w/ inclusions of fines (silt/clay), black staining, odor | |
| | | 108 | light | 02R@12' 1255 | 12 | 3/2 | | 10-13' - same but w/ less stain and odor | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | |
|---|----------------|------------------------------------|------------------------|
| Boring/Well Number: <i>MW03</i> | | Project: Nishimoto George GU #1 | |
| Date: 8/17/2015 | | Project Number: KMG05131.2 | |
| Logged By: Andy Verbonitz G.I.T. | | Drilled By: Site Services | |
| Drilling Method: Track Probe 7730 DT | | Sampling Method: Continuous | |
| Seal: bentonite | | Grout: <i>none</i> | |
| Diameter: 1" | Length: 3' | Hole Diameter: 2.25" | Depth to Liquid: — |
| Diameter: 1" | Length: 10' | Total Depth: 11' | Depth to Water: ~5' |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC SU Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|---|------------------------|
| Soft | dry | | none | NA | 0 | | | 0-2' | |
| | moist | | | | 2 | 5/3 | CL/SM | sandy (vf-c) clay w/ silt, (top soil), brown, dry to moist, no stain, no odor | |
| | | | | | 4 | | SW | | |
| | | | | | 6 | | | 2-6' | |
| | | | | | 8 | 5/4 | SP | sand (vf-g-vcg), wet at 5' bgs, no stain, no odor | |
| | | | | | 10 | | | | |
| | | | | | 12 | X1 | | 6-11' | |
| | | | | | 14 | | | sand (mg-vcg), wet, no stain, no odor, gravel | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
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Location Map:

see MW03



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW04

Project:

Nishimoto George GU #1

Date:

8/17/2015

Project Number:

KMG05131.2

Logged By:

Andy Verbonitz G.I.T.

Drilled By:

Site Services

Elevation:

NA

Detector:

MiniRae 3000

Drilling Method:

Track Probe 7730 DT

Sampling Method:

Continuous

Gravel Pack:

10-20 silica sand

Seal:

bentonite

Grout:

none

Casing Type:

PVC

Diameter:

1"

Length:

3'

Hole Diameter:

2.25"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

11'

Depth to Water:

~5'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC SU Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|--|------------------------|
| Soft | moist | | none | NA | 0 | | SM/sc | 0-2' | |
| | | | | | 2 | 5/4 | SW | sandy (ufg-vcg) clay w/silt, brown, moist, no stain, no odor | |
| | wet | | | | 4 | | | | |
| | | | | | 6 | 5/5 | SP | 2-6' | |
| | | | | | 8 | | | sand (vcg-vcg), wet @ 5' bgs, no stain, no odor | |
| | | | | | 10 | | | | |
| | | | | | 12 | 1/1 | | 6-11' | |
| | | | | | 14 | | | sand (mg-vcg) and gravel, wet, no stain, no odor | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Location Map:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **MW05** Project: **Nishimoto George GU #1**

Date: **8/17/2015** Project Number: **KMG05131.2**

Logged By: **Andy Verbonitz G.I.T.** Drilled By: **Site Services**

Elevation: **NA** Detector: **MiniRae 3000** Drilling Method: **Track Probe 7730 DT** Sampling Method: **Continuous**

Gravel Pack: **10-20 silica sand** Seal: **bentonite** Grout: **none**

Casing Type: **PVC** Diameter: **1"** Length: **3'** Hole Diameter: **2.25'** Depth to Liquid: **—**

Screen Type: **PVC** Slot: **0.01** Diameter: **1"** Length: **10'** Total Depth: **11'** Depth to Water: **~5'**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC S.U. Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|---|--------------------------|
| Sott | moist | ⊗ | none | NA | 0 | | sc/sm | 0-2' | |
| | | ⊗ | | | 2 | 5/3 | --- | sandy (vfg-vcg) clay w/ silt, brown, moist, no stain, no odor | |
| | | ⊗ | | | 4 | | sw | 2-6' | |
| | | ⊗ | | | 6 | 5/4 | --- | sand (vfg-vcg) wet @ 5' bgs, no stain, no odor | |
| | | ⊗ | | | 8 | | sp | 6-11' | |
| | | ⊗ | | | 10 | 1/1 | | sand (mg-vcg) gravel, wet, no stain, no odor | |
| | | | | | 12 | | | | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Location Map:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | |
|---------------------|-----------------------|------------------|------------------------|
| Boring/Well Number: | MW06 | Project: | Nishimoto George GU #1 |
| Date: | 8/17/2015 | Project Number: | KMG05131.2 |
| Logged By: | Andy Verbonitz G.I.T. | Drilled By: | Site Services |
| Drilling Method: | Track Probe 7730 DT | Sampling Method: | Continuous |

Page 1 of
 Elevation: NA
 Detector: MiniRae 3000

Gravel Pack: 10-20 silica sand

Seal: bentonite
 Grout: none

Casing Type: PVC
 Diameter: 1" Length: 3'

Screen Type: PVC Slot: 0.01
 Diameter: 1" Length: 10'

Hole Diameter: 2.25"
 Total Depth: 11'
 Depth to Liquid:
 Depth to Water: ~5'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC 54 Well Completion |
|------------------------|------------------|-------------|----------|--------------|------------------|--------------------|----------------|---|------------------------|
| Soft | moist | 0 | none | | 0 | | | 0-4' | |
| | | 0 | | | 2 | 5/3 | SL/SM | sandy (vfg-mg) silt w/ minor clay content, moist, no stain, no odor | |
| | | 0 | | | 4 | | --- | | |
| | wet | 5.0 | | | 6 | | SW | | |
| | | 172 | | MW06@8' 1025 | 8 | 5/4 | SP | 4-7' sand (fg-vcg) w/ gravel, wet @ 5' bgs, no stain, no odor | |
| | | 6.5 | none | | 10 | | --- | | |
| | | | | | 12 | 1/1 | SP | 7-9' silty sand (vfg-fg) wet, dark stain, odor | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | 9-11' sand (mg-vcg) gravel, wet, no stain, no odor | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |


Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | | |
|---------------------|-----------------------|------------------|---|--|
| Boring/Well Number: | MW07 | Project: | Nishimoto George GU #1 | |
| Date: | 8/17/2015 | Project Number: | KMG05131.2 | |
| Logged By: | Andy Verbonitz G.I.T. | Drilled By: | Site Services | |
| Drilling Method: | Track Probe 7730 DT | Sampling Method: | Continuous | |
| Seal: | bentonite | Grout: | none | |
| Diameter: | Length: | Hole Diameter: | Depth to Liquid: | |
| 1" | 3' | 2.25" |  | |
| Diameter: | Length: | Total Depth: | Depth to Water: | |
| 1" | 10' | 11' | ~5' | |

Page 1 of

Elevation: NA
 Detector: MiniRae 3000

Gravel Pack: 10-20 silica sand

Casing Type: PVC
 Screen Type: PVC
 Slot: 0.01

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC 5/4 Well Completion |
|------------------------|------------------|-------------|----------|----------------|------------------|--------------------|----------------|---|-------------------------|
| Soft | moist | 0 | none | | 0 | | | 0-3' | |
| | | 0 | | | 2 | 5/4 | 4/sm | sandy (veg-mg) silt w/ clay, moist brown, no stain, no odor | |
| | | 0 | | | 4 | | | | |
| | wet | 0 | | | 6 | | SP | 3-6' | |
| | | 91.3 | | | 8 | 5/4 | | sand (veg-cg), wet at 5' bgs, no stain, no odor, some fine grain inclusions (silt/clay) | |
| | | 0.6 | none | MW07 @ 8' 1105 | 10 | | SW | 6-11' | |
| | | | | | 12 | 1/1 | | gravely sand (veg-vcg), wet, stain & odor from 8-9' bgs | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
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Location Map:

see MW03



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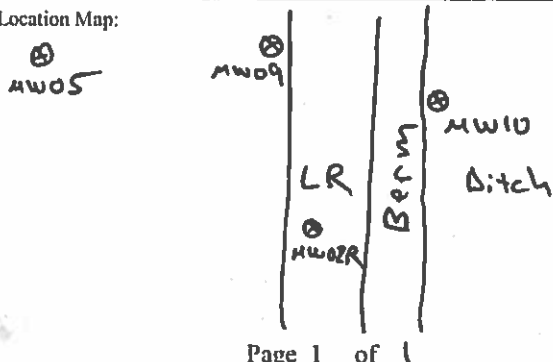
BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | |
|---------------------|-----------------------|------------------|------------------------|
| Boring/Well Number: | MW08 | Project: | Nishimoto George GU #1 |
| Date: | 8/17/2015 | Project Number: | KMG05131.2 |
| Logged By: | Andy Verbonitz G.I.T. | Drilled By: | Site Services |
| Drilling Method: | Track Probe 7730 DT | Sampling Method: | Continuous |
| Seal: | bentonite | Grout: | none |
| Diameter: | 1" | Length: | 3' |
| Hole Diameter: | 2.25" | Depth to Liquid: | — |
| Screen Type: | PVC | Slot: | 0.01 |
| Diameter: | 1" | Length: | 10' |
| Total Depth: | 11' | Depth to Water: | ~5' |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC SU Well Completion |
|------------------------|------------------------|--|--------------------------------|-----------------|---|--------------------|----------------------|---|------------------------|
| SC+ ↓ | Moist ↓ wet ↓ | 0 22.1 1.3 0.9 90.6 3.4 | none ↓ none ↓ none | MW08@9' 1045 | 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 5/4 5/4 1/1 | SC/SM SP SC/SM | 0-4 sandy (vg-cg) silt w/ clay, (topsoil), moist, brown, light odor + staining from 3-4' 4-8' sand (vg-mg), wet @ 5' bgs, no stain, no odor 8-10' gravelly sand (cg-cg) w/ fines (silt/clay), wet, stain, odor 10-11' same but w/ out stain/odor | |

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Location Map:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | |
|---------------------|-----------------------|------------------|------------------------|
| Boring/Well Number: | MW09 | Project: | Nishimoto George GU #1 |
| Date: | 8/17/2015 | Project Number: | KMG05131.2 |
| Logged By: | Andy Verbonitz G.I.T. | Drilled By: | Site Services |
| Drilling Method: | Track Probe 7730 DT | Sampling Method: | Continuous |
| Gravel Pack: | 10-20 silica sand | Seal: | bentonite |
| Casing Type: | PVC | Hole Diameter: | 2.25" |
| Screen Type: | PVC | Length: | 10' |
| Slot: | 0.01 | Total Depth: | ~5' |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC 54 Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|--|------------------------|
| Soft | Moist | | none | NA | 0 | | | 0-4' | |
| | | | | | 2 | 5/3 | SC/SM | sand (uf-f) w/ silt and minor clay content, brown, no stain, no odor | |
| | | | | | 4 | | | | |
| | | | | | 6 | 5/4 | SP | 4-7' | |
| | | | | | 8 | | | sand (ufg-mg), no fines, wet @ 5' bgs, no stain, no odor | |
| | | | | | 10 | | SW | | |
| | | | | | 12 | 1/1 | | 7-11' | |
| | | | | | 14 | | | gravely sand (fg-vcg), wet, no stain, no odor | |
| | | | | | 16 | | | | |
| | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
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| | | | | | 30 | | | | |

Location Map:

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | | | |
|---|------------------------------------|-----------------|----------------------|--------------------|------------------------|
| Boring/Well Number: MW10 | Project: Nishimoto George GU #1 | | | | |
| Date: 8/17/2015 | Project Number: KMG05131.2 | | | | |
| Logged By: Andy Verbonitz G.I.T. | Drilled By: Site Services | | | | |
| Drilling Method: Track Probe 7730 DT | Sampling Method: Continuous | | | | |
| Seal: bentonite | Grout: none | | | | |
| Casing Type: PVC | Diameter: 1" | Length: 3' | Hole Diameter: 3" | Depth to Liquid: | |
| Screen Type: PVC | Slot: 0.01 | Diameter: 1" | Length: 6' | Total Depth: 7' | Depth to Water: ~4' |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run/Recover | Soil/Rock Type | Lithology/Remarks | PVC/SU Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|--------------------|----------------|---|------------------------|
| Soft | moist | 0 | none | NA | 0 | | sc/sm | Can't access w/ probe due to berm, install with hand auger. | |
| | ↓ | 1.5 | ↓ | | 2 | | | | |
| | wet | 0.3 | ↓ | | 4 | | SP | Flowing sands near TD & prohibit from going deeper | |
| | | | | | 6 | | | | |
| | | | | | 8 | | | | |
| | | | | | 10 | | | | |
| | | | | | 12 | | | 0-4' | |
| | | | | | 14 | | | silty sand (ufg) w/ clay, moist & wet @ 4' bgs, brown | |
| | | | | | 16 | | | no stain, no odor | |
| | | | | | 18 | | | 4-7' | |
| | | | | | 20 | | | sand (fg-mg), wet, | |
| | | | | | 22 | | | no stain, no odor | |
| | | | | | 24 | | | | |
| | | | | | 26 | | | | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Well Location Sketch:



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW06T

Project: Nishimoto George Gu #1

Date: 10/25/16

Project Number: KWH05134

Logged By: Ryan Zernis

Drilled By: RYAN ZERNIS

Elevation:

Detector:

PID

Drilling Method:

Hand Auger

Sampling Method:

Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

-

Casing Type:

PVC

Diameter:

Length:

2

Hole Diameter:

3"

Depth to Liquid:

-

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

8

Total Depth:

10.5

Depth to Water:

5.5

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|--|-------------------------|
| | | | | | 0 | | | | | |
| | Wast | 0.0 | NO | | | | | CL / gm | 0-4 BROWN / DRK BROWN (GRAVELLY CLAY. NO ODCR. NO STAIN) | |
| | ↓ | 0.0 | ↓ | | 2 | | | | | |
| | | | | | | | | | 4-6 Angular / Sub ROUNDED. TAN fq / cq NO ODCR NO STAIN. | |
| | Wet | 0.0 | | | 4 | | | SW | | |
| | ↓ | 68.7 | yes | | 6 | | | CL / gm | 6-10 Dark Black / grey gravelly sandy clay. ODCR. STAIN. | |
| | | 580.3 | | | 8 | | | | | |
| | | 927 | | | 10 | | | | PVC Stickup in field. | |
| | | 1391 | | | | | | | Temp well. | |
| | | | | | 12 | | | | | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

NOTES:

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Well Location Sketch:



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Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MN09R

Project: Nishimoto George Gv #1

Date: 10/25/2016

Project Number: KMG 05131

Logged By: Ryan Zernis

Drilled By: RYAN ZERNIS

Elevation:

Detector:

PID

Drilling Method:

Hand Auger

Sampling Method:

Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

-

Casing Type:

PVC

Diameter:

1"

Length:

2'

Hole Diameter:

3"

Depth to Liquid:

-

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

8'

Total Depth:

10.5'

Depth to Water:

5.5'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | NO | 0.0 | NO | | 2 | | | ROAD BASE | 0-2 ROAD BASE. TAN/DRK BROWN. AGGREGATES 1-5 CM ROUNDED. ANGLAR WITH SANDY CLAY MATRIX. | |
| | | 0.0 | | | 4 | | | CL | 2-4. BROWN/DRK BROWN GRAVELLY CLAY. 3/CM NO ODA - NO STAIN MOST. | |
| | | 0.0 | | | 6 | | | LL | 4-10. GREY/BROWN/DRK BROWN. SILTY/SANDY CLAY. WET C.S.5' NO ODA. NO STAIN | |
| | | 0.0 | | | 8 | | | | | |
| | | 0.0 | | | 10 | | | | | |
| | | | | | 12 | | | | CONCRETE FLUSHMENT. | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

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Well Location Sketch:



MW06T

MW09R

MW10

AMW01RT

ACCESS
ROAD

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | | | |
|---------------------|-------------|------------------|-----------------------|
| Boring/Well Number: | AMW01RT | Project: | Nishimoto George Gu#1 |
| Date: | 10/25/2016 | Project Number: | KMG 05131 |
| Logged By: | Ryan Zernis | Drilled By: | RYAN ZERNIS |
| Elevation: | | Drilling Method: | Hand Auger |
| Detector: | PID | Sampling Method: | Continuous |
| Gravel Pack: | Silica Sand | Seal: | Bentonite |
| Casing Type: | PVC | Grout: | - |
| Screen Type: | PVC | Diameter: | 1" |
| | | Length: | 2' |
| | | Hole Diameter: | 3" |
| | | Depth to Liquid: | - |
| | | Total Depth: | 10.5 |
| | | Depth to Water: | 5.5 |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|--|-------------------------|
| | | | | | 0 | | | | | |
| | Wet | 0.0 | NO | | 2 | | | CL / fm | 0-4' BROWN/DK BROWN sandy CLAY NO ODR. NO STAIN. | |
| | | 0.0 | | | 4 | | | | | |
| | Wet | 0.0 | | | 6 | | | SW | 4-10 Tan. Angular / sub rounded. NO ODR. NO STAIN. | |
| | | 0.0 | | | 8 | | | | | |
| | | | | | 10 | | | | PVC stick up in field. | |
| | | | | | 12 | | | | Temp well. | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

Well Location Sketch:

Agriculture

MWOBT

AMWOIT

MWOIR
Lesse
land

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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

AMWOIT

Project:

Nishimoto George GU #1

Date:

11-10-17

Project Number:

KMG05131

Logged By:

Jay Thomas

Drilled By:

Jay Thomas

Elevation:

Detector:

PID

Drilling Method:

Hand Auger

Sampling Method:

Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

Casing Type:

PVC

Diameter:

1"

Length:

2'0"

Hole Diameter:

3"

Depth to Liquid:

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

7'0"

Total Depth:

9'0"

Depth to Water:

5'6"

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | Slightly moist | 0.1 | No | N/A | | | | SC | 0-36 Fgs clayey sand, brown, slightly moist - moist, poorly sorted, no stain, no odor going downward clay decreases, silt increases | |
| | moist | | | | 2 | | | | | |
| | | 0.2 | | | 4 | | | SW | Not Logged 3.5- 9 in. coarse sand, dense, poorly cemented / loose, slightly moist, well graded, no stain, no odor | |
| | Saturated | 0.8 | | | 6 | | | | 5.5 Saturated | |
| | | | | | 8 | | | | | |
| | | 13.1 | | | 10 | | | | | |
| | | | | | 12 | | | | | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

Well Location Sketch:

Refer to AMWOIT



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

MW06T

Project:

Nishimoto George GU #1

Date:

11-10-17

Project Number:

KMG05131

Logged By:

Jay Thomas

Drilled By:

Jay Thomas

Elevation:

Detector:

PID

Drilling Method:

Hand Auger

Sampling Method:

Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

-

Casing Type:

PVC

Diameter:

1"

Length:

2'0"

Hole Diameter:

3"

Depth to Liquid:

-

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

7'0"

Total Depth:

9'0"

Depth to Water:

5'6"

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | Slightly moist | 0.1 | No | N/A | 2 | | | SC | 0-3.5 Fg. clayey sand, brown, slightly moist to moist, poorly graded, no stain, no odor. | |
| | moist | 0.3 | | | 4 | | | SW | 3.5-9 md-course sand, loose/poorly cemented, slightly moist, well graded, no stain, no odor | |
| | Saturated | | | | 6 | | | | Not Logged | |
| | | 2:2 | Slight | | 8 | | | | 7- Slight stain, slight odor | |
| | | 6's & 123 | | | 10 | | | | | |
| | | | | | 12 | | | | | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

Well Location Sketch:

↑ N

previous well
MW09 R2
MW10



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring Well Number: MW09 R2 Project: Nishimoto George #1

Date: 3-2-18 Project Number: KMG05131

Logged By: Daniel Thomas Drilled By: Hand Auger

Elevation: Detector: PID Drilling Method: Direct Push Sampling Method: Continuous

Gravel Pack: Silica Sand Seal: Bentonite Grout: -

Casing Type: PVC Diameter: 1" Length: 1.2' Hole Diameter: 3" Depth to Liquid: -

Screen Type: PVC Slot: 0.01 Diameter: 1" Length: 8.0' Total Depth: 10.5' Depth to Water: 7.0'

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|---|-------------------------|
| | | | | | 0 | | | | | |
| | None | 0.1 | | | | | | | 0'-1.5' Road base, FG-MG Sand w/ clay, low moisture, no staining, brown. Cobbles present. | |
| | Low | 0.7 | Yes | | 2 | | | | 1.5'-4' FG-MG Sand trace clay, low moisture, little staining, light brown. | |
| | Low | | Yes | | 4 | | | | 4'-6.5' clay, med-high plasticity, grey, red staining, organics | |
| | Med. | 1.6 | | | 6 | | | | | |
| | Very moist | 1.4 | | | 8 | | | | 6.5'-9.5' FG-MG Sand, trace clay, increase in moisture, light brown. | |
| | Very moist | 1.7 | | | 10 | | | | 7.5'-9.5' - grey stained - FG-MG Sand trace clay, | |
| | | | | | 12 | | | | Sand to ~6' above screen | |
| | | | | | 14 | | | | Bentonite plug. | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |



Well Location Sketch:

Pc drills



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

mw06T & Amw01T

Project:

Nishimoto George #1

Date:

10/15/18

Project Number:

Logged By:

David Stainback

Drilled By:

Drill Pro

Elevation:

N/A

Detector:

PID

Drilling Method:

Direct Push

Sampling Method:

N/A
Continuous

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

N/A

Casing Type:

Diameter:

1"

Length:

2'

Hole Diameter:

3.35"

Depth to Liquid:

-

Screen Type:

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

12'

Depth to Water:

N/A

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|-------------------------------------|-------------------------|
| | | | | | 0 | | | | | |
| | | | | | 2 | | | | Potholed to 6' bgs, not logged | |
| | | | | | 4 | | | | | |
| | | | | | 6 | | | | | |
| | | | | | 8 | | | | Pc drills, not logged (temp wells). | |
| | | | | | 10 | | | | | |
| | | | | | 12 | | | | Set w/ 2' PVC stick-up | |
| | | | | | 14 | | | | | |
| | | | | | 16 | | | | | |
| | | | | | 18 | | | | | |

NOTES:

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