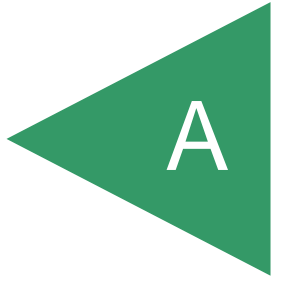


APPENDIX

A



APPENDIX A








FIELD INVESTIGATION

The field investigation was performed in August 2021 and consisted of excavating eleven large-diameter borings and five continuous core borings. The locations of the borings were surveyed by Rick Engineering and are shown on the Geologic Map (Figure 1). The large-diameter borings were excavated to maximum depth of approximately 25 feet to 100 feet using a truck-mounted EZ Bore 120 drill rig equipped with a 30-inch diameter bucket-auger. The continuous core borings were performed with a CME-85 Mud Rotary drill rig. A representative of Geocon down-hole logged the large diameter borings. The cores were also logged, examined, and photographed by a representative of Geocon. Logs of the borings and cores are included herein. Also included are photographs of the cores.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 1 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|------------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) 217' | DATE COMPLETED 08-10-2021 | | | |
| | | | | | EQUIPMENT 30" BUCKET AUGER | | BY: R. ADAMS | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | ML&SM | LANDSLIDE DEBRIS (Qls) Loose to medium dense/soft to firm, damp, grayish white, very fine grained, Sandy SILT and Silty, very fine grained SAND matrix; matrix contains brecciated angular clasts of siltstone and claystone.s | | | | |
| 2 | | | | | | | | | |
| 4 | | | | | | | | | |
| 6 | LB1-1 | | | | -At 5.5 to 7 feet: thick, soft plastic remolded clay bed; high angle; offshoot from main rapture surface below; upper surface is highly polished and striated; (N50E/32°NW) | | 2 | | |
| 8 | LB1-8 | | | CH | BASAL SLIP SURFACE from 7.5 to 9.5 feet; Soft, moist, brown, olive brown to brownish black, CLAY; plastic, few 0.5-2 inch subrounded gravel | | | | |
| 10 | LB1-2 | | | CL | -At 9 feet: 2 to 4-inch thick, very soft, plastic remolded clay with imbricated angular fragments of pink bentonitic claystone mixed in; probable base of slide; (N75W/4°S) | | 2 | | |
| 12 | LB1-4 | | | CL | ALLUVIUM (Qal) Soft to firm, moist, brownish black, CLAY; some subrounded gravel | | | | |
| 14 | | | | | Soft to firm, moist, grayish brown to olive brown, Sandy CLAY; few 6-inch to 12-inch diameter subrounded gravel and cobble | | | | |
| 16 | LB1-3 | | | | | | 2 | | |
| 18 | | | | SC | Dense, damp to moist, olive brown, Clayey, fine to coarse SAND with subrounded cobble and boulders up to 24-inch diameter | | | | |
| 20 | | | | | | | | | |
| 22 | | | | | | | | | |
| 24 | | | | SM | VERY OLD PARALIC DEPOSITS (Qvp) Dense to very dense, damp, orangish brown, Clayey, fine to coarse SAND; few sub-horizontal and sub-vertical caliche stainers; contact with alluvium above is horizontal | | | | |
| 26 | | | | SC | Dense, moist, orangish brown, Clayey SAND with cobble up to 12-inch diameter | | | | |
| 28 | | | | SC | Dense to very dense, brown to orangish brown, Clayey, fine to coarse SAND; massive, trace subrounded gravel and cobble | | | | |

Figure A-1,
Log of Boring LB 1, Page 1 of 2

06847-42-05.GPJ

| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.









| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 1 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) | | | | | | | |
|---|---------------|--|-------------|-------------------------|-----------------------------------|----------------------------------|--|-------------------------|-------------------------|--|--|--|--|--|--|--|
| | | | | | ELEV. (MSL.) <u>217'</u> | DATE COMPLETED <u>08-10-2021</u> | | | | | | | | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | | | | | | | | |
| MATERIAL DESCRIPTION | | | | | | | | | | | | | | | | |
| 30 | LB1-5 |  | | SC | | | 10 | | | | | | | | | |
| 32 | LB1-6 | | | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | |
| 40 | LB1-7 | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | |
| BORING TERMINATED AT 50 FEET Groundwater not encountered Backfilled on 08-10-2021 | | | | | | | | | | | | | | | | |

Figure A-1,
Log of Boring LB 1, Page 2 of 2

06847-42-05.GPJ








| | | | |
|-----------------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 2 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|------------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) <u>231'</u> | DATE COMPLETED <u>08-11-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>T. REIST</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | SC | LANDSLIDE DEBRIS (Qls) Loose to medium dense, damp, light gray, Clayey, fine to medium SAND; highly disturbed appearance with sandstone and siltstone chunks floating in sandy matrix; bentonite rip-up clasts up to 3 inches present throughout | | | | |
| 2 | LB2-1 | | | | | | | | |
| 4 | LB2-2 | | | | | | 2 | | |
| 6 | | | | | | | | | |
| 8 | | | | | | | | | |
| 10 | LB2-3 | | | | | | 2 | | |
| 12 | | | | | -Back rotated 6-inch thick, olive green claystone bed present from 12.5 -16 feet (60°, due north) | | | | |
| 14 | | | | | | | | | |
| 16 | LB2-4 | | | | -Back rotated 4 to 6-inch thick, pink bentonite bed with some poorly remolded areas present from 16.5-19 feet (N60°E, 60°NW), stria (S40°W) | | 1 | | |
| 18 | | | | | | | | | |
| 20 | LB2-5 | | | | BASAL SLIP SURFACE from 19.2 to 20 feet; (N50°E, 2°-3°SE); 12" thick zone of pink bentonite with moderately remolded areas with sharp contact with alluvium below; stria on BSS (S40°E) | | 1 | | |
| 22 | LB2-6 | | | SC | ALLUVIUM (Qal) Medium dense, very dark gray to black, Clayey, fine SAND -Becomes mottled gray-green with orange staining below 22 feet | | | | |
| 24 | LB2-7 | | | | | | | | |
| 26 | LB2-8 | | | | | | 2 | | |
| 28 | | | | | 4 to 6-inch thick, dark brown lense at 27 feet -20%-30% gravel and cobble, size rock fragments up to 6-inches present below 27 feet -Heavily scoured contact | | | | |

Figure A-2,
Log of Boring LB 2, Page 1 of 2

06847-42-05.GPJ

| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 2 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>231'</u> | DATE COMPLETED <u>08-11-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>T. REIST</u> | | | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 30 | | | | SM | OTAY FORMATION (To) Dense, damp, light gray, Silty, fine to medium SANDSTONE; massive -Concretions present below 35 feet -Becomes brown with some coarse grains below 47 feet | | | | |
| 32 | | | | | | | | | |
| 34 | | | | | | | | | |
| 36 | LB2-9 | | | | | | 8/3" | | |
| 38 | | | | | | | | | |
| 40 | LB2-10 | | | | | | 10/8" | | |
| 42 | | | | | | | | | |
| 44 | | | | | | | | | |
| 46 | LB2-11 | | | 8/5" | | | | | |
| 48 | | | | | | | | | |
| 50 | LB2-12 | | | 8/10" | | | | | |
| BORING TERMINATED AT 51 FEET Groundwater not encountered | | | | | | | | | |

Figure A-2,
Log of Boring LB 2, Page 2 of 2

06847-42-05.GPJ








| | | | |
|-----------------------|-----------------------------|-------------------------------|---------------------------------|
| SAMPLE SYMBOLS | ... SAMPLING UNSUCCESSFUL | ... STANDARD PENETRATION TEST | ... DRIVE SAMPLE (UNDISTURBED) |
| | ... DISTURBED OR BAG SAMPLE | ... CHUNK SAMPLE | ... WATER TABLE OR ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 3 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|------------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) <u>209'</u> | DATE COMPLETED <u>08-11-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>T. REIST</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | SM&SC | UNDOCUMENTED FILL (Qudf) Loose, damp, light brown, Silty to Clayey, fine to medium SAND | | | | |
| 2 | | | | SM&SC | LANDSLIDE DEBRIS (Qls) Loose to medium dense, moist, light gray, Clayey to Silty SAND; no fabric with some small sandstone and bentonite rip-up clasts | | | | |
| 4 | | | | | BASAL SLIP SURFACE from 5-6 feet; (N40°E, 6°SE); 4 to 6-inch thick, dark gray-green, silty clay bed (remolded in areas) overlying a pulverized discontinuous white and pink bentonite bed | | 1 | | |
| 6 | LB3-1 | | | CL | | | | | |
| 8 | LB3-2 | | | | ALLUVIUM (Qal) Medium dense, moist, dark grayish brown, Sandy CLAY | | | | |
| 10 | LB3-3 | | | | -Transitional contact | | 1 | | |
| 12 | | | | SC | Medium dense, moist, gray-green with some orange lenses, Clayey, fine to medium SAND | | | | |
| 14 | | | | GM/GC | Medium dense, moist, gray-brown, Sandy to Clayey, GRAVEL with 30% to 50% gravel, cobble and boulder size rock fragments up to 14-inches; boring belled out below 15 feet; unable to log below | | | | |
| 16 | | | | | | | | | |
| 18 | | | | | | | | | |
| 20 | | | | | | | | | |
| 22 | | | | | | | | | |
| 24 | | | | | | | | | |
| | | | | | REFUSAL AT 25.5 FEET DUE TO BOULDERS Groundwater not encountered | | | | |

Figure A-3,
Log of Boring LB 3, Page 1 of 1

06847-42-05.GPJ








| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 4 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|------------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) 215' | DATE COMPLETED 08-12-2021 | | | |
| | | | | | EQUIPMENT 30" BUCKET AUGER | | BY: R. ADAMS | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | SM | UNDOCUMENTED FILL (Qudf) Loose, dry, light gray, Silty, fine to coarse SAND; gravel lenses and very young slopewash with trash incorporated; silty layers are laminated | | | | |
| 2 | | | | | | | | | |
| 4 | LB4-1 | | | CL | ALLUVIUM (Qal) Firm to stiff, damp to moist, dark brownish black, Sandy CLAY; trace sub-rounded gravel; few roots | | 2 | | |
| 6 | | | | ML | Firm, damp, dark brown, fine, Sandy SILT; trace clay, few roots and trace caliche | | | | |
| 8 | | | | | | | | | |
| 10 | LB4-2 | | | GM&GC | Medium dense, damp, olive brown, Silty and Clayey SAND with subrounded cobble and boulders up to 14-inch diameter; undulatory contact; matrix supported | | | | |
| 12 | | | | SM | OTAY FORMATION (To) Dense, dry to damp, pale yellowish gray, Silty, very fine grained SANDSTONE; few horizontal and vertical caliche stingers | | | | |
| 14 | | | | ML | Hard, damp, grayish brown to olive brown, Clayey SILTSTONE; weakly bedded with little fracturing; caliche along fracture surface; (Bedding N70°W/6°SW) | | | | |
| 16 | LB4-3 | | | SM | Dense, damp, grayish white, Silty, fine SANDSTONE; few olive brown 1 to 2-inch thick clay siltstone interbeds; bedding offset approximately 1" along a closed clay filled fracture: Fracture: N20°W/Subvertical; Bedding: N60°W/4°SW -At 18 feet: becomes massive | | 6/8" | | |
| 18 | | | | | | | | | |
| 20 | LB4-4 | | | | | | 8/8" | | |
| 22 | | | | | | | | | |
| 24 | | | | | | | | | |
| 26 | LB4-5 | | | | | | 8 | | |
| 28 | | | | SM | Dense, damp, whitish gray, Silty, fine to coarse SANDSTONE; massive -At 29 feet: becomes brown, weakly cemented | | | | |

Figure A-4,
Log of Boring LB 4, Page 1 of 2

06847-42-05.GPJ

| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 4 ELEV. (MSL.) <u>215'</u> DATE COMPLETED <u>08-12-2021</u> EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|------------|-----------|-------------|-------------------|--|------------------------------------|----------------------|----------------------|
| MATERIAL DESCRIPTION | | | | | | | | |
| 30 | LB4-6 | | | | Concretionary sandstone bed; horizontal | 6/6" | | |
| 32 | | | | ML | Hard, damp, pale olive brown to grayish brown, very fine grained, Sandy SILTSTONE with some small angular gravel; trace clay | | | |
| 34 | LB4-7 | | | | -At 35-39 feet: few angular gravel fragments up to 0.5-inch diameter | | | |
| 36 | | | | | | | | |
| 38 | | | | | | | | |
| 40 | LB4-8 | | | | | 8/8" | | |
| BORING TERMINATED AT 40 FEET Groundwater not encountered Backfilled on 08-12-2021 | | | | | | | | |

Figure A-4,
Log of Boring LB 4, Page 2 of 2

06847-42-05.GPJ

| | | | | | | |
|-----------------------|--|-----------------------------|--|-------------------------------|--|--------------------------------|
| SAMPLE SYMBOLS | | ... SAMPLING UNSUCCESSFUL | | ... STANDARD PENETRATION TEST | | ... DRIVE SAMPLE (UNDISTURBED) |
| | | ... DISTURBED OR BAG SAMPLE | | ... CHUNK SAMPLE | | ... WATER TABLE OR ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 5A ELEV. (MSL.) <u>223'</u> DATE COMPLETED <u>08-12-2021</u> EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|------------|-----------|-------------|-------------------|---|------------------------------------|----------------------|----------------------|
| 0 | | | | | MATERIAL DESCRIPTION | | | |
| 2 | | | | GM | VERY OLD PARALIC DEPOSITS (Qvop) Medium dense to dense, dry to damp, light orangish brown, Silty, medium coarse SAND with gravel and cobble up to 12-inch diameter; very low cohesion | | | |
| 4 | | | | | | | | |
| 6 | | | | | | | | |
| 8 | | | | | PRACTICAL REFUSAL AT 8 FEET DUE TO CAVING, HIGH COBBLE CONTENT AND COHESIONLESS SAND Groundwater not encountered Backfilled on 08-12-2021 | | | |

Figure A-5,
Log of Boring LB 5A, Page 1 of 1

06847-42-05.GPJ

| | | | |
|----------------|-----------------------------|-------------------------------|---------------------------------|
| SAMPLE SYMBOLS | ... SAMPLING UNSUCCESSFUL | ... STANDARD PENETRATION TEST | ... DRIVE SAMPLE (UNDISTURBED) |
| | ... DISTURBED OR BAG SAMPLE | ... CHUNK SAMPLE | ... WATER TABLE OR ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 5B | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) | |
|---------------|-----------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|--|
| | | | | | ELEV. (MSL.) <u>224'</u> | DATE COMPLETED <u>08-12-2021</u> | | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | | |
| 0 | | | | SM | VERY OLD PARALIC DEPOSITS (Qvop) Dense, dry to damp, orange to reddish brown, fine to medium SAND; trace silt | | | | | |
| 2 | | | | | | | | | | |
| 4 | | | | SM | At 4 feet: steeply dipping contact: N70°W/44°NE | | | | | |
| 4 | LB5B-1 | | | SM | SAN DIEGO FORMATION (Tsd) Dense, damp to moist, pale yellowish brown, Silty, very fine grained SANDSTONE; steeply dipping: N72°W/18°NE, interbedded with coarse sand below | | 4 | | | |
| 6 | | | | SM | Dense, dry to damp, grayish white to orangish gray, medium to coarse SANDSTONE; laminated and cross-bedded, trace fine gravel, micaceous, very low cohesion | | | | | |
| 8 | | | | | | | | | | |
| 10 | LB5B-2 | | | SM | Dense, dry to damp, grayish white, fine to coarse SANDSTONE; laminated and cross-bedded, highly micaceous | | 7 | | | |
| 12 | | | | | | | | | | |
| 14 | LB5B-4 | | | SM | Dense, dry to damp, grayish white, medium to coarse SANDSTONE; laminated and cross-bedded, top contact truncates primary laminations; contact: N20°E/50°NW; high angle cross bedding N25°E/38°NW | | | | | |
| 16 | LB5B-3 | | | SM | Dense, damp to moist, pale yellowish brown to grayish brown (mottled), Silty, very fine grained SANDSTONE; trace clay, few thin discontinuous medium to coarse sand; interbeds highly micaceous | | | | | |
| 18 | | | | ML | Hard, damp, grayish brown, Clayey SILTSTONE; massive | | | | | |
| 20 | | | | SM | Dense, damp, grayish brown, Silty, very fine grained SANDSTONE; highly micaceous, abundant detrital charcoal | | | | | |
| 22 | | | | | | | | | | |
| 24 | | | | SC | Dense, damp to moist, grayish brown to orangish brown, Clayey, fine to coarse SANDSTONE with subrounded cobble up to 10-inch diameter; top contact: N60°E/55°NW | | | | | |
| 26 | | | | | PRACTICAL REFUSAL AT 26 FEET DUE TO COBBLE Groundwater not encountered Backfilled on 08-12-2021 | | | | | |

Figure A-6,
Log of Boring LB 5B, Page 1 of 1

06847-42-05.GPJ

| SAMPLE SYMBOLS | |
|---|----------------------------|
|  | SAMPLING UNSUCCESSFUL |
|  | STANDARD PENETRATION TEST |
|  | DRIVE SAMPLE (UNDISTURBED) |
|  | DISTURBED OR BAG SAMPLE |
|  | CHUNK SAMPLE |
|  | WATER TABLE OR |
|  | SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.




| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 6 | | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|--------------|---|-------------|-------------------------|--|----------------------------------|-----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>347'</u> | DATE COMPLETED <u>08-16-2021</u> | EQUIPMENT <u>30" BUCKET AUGER</u> | | | |
| MATERIAL DESCRIPTION | | | | | | | | | | |
| 0 | | | | SM/SC | LANDSLIDE DEBRIS (Qls) Loose, dry to damp, dark brown, Silty to Clayey, fine to coarse SAND with 10-20% gravel and cobble size rock fragments up to 6-inches; occasional boulders up to 24-inches also present | | | | | |
| 2 | | | | | | | | | | |
| 4 | LB6-1 |  | | | | | | | | |
| 6 | | | | | -Gradational contact | | | | | |
| 8 | | | | GM | Dense, damp, reddish brown, fine to coarse, Sandy GRAVEL with 50-60% gravel and cobble size rock fragments up to 6-inches; occasional boulders up to 24-inches; landslide block | | | | | |
| 10 | | | | | -Becomes clast supported with 60-80% gravel and cobble size rock fragments; little to no cohesion; unable to log below 11 feet due to belled out boring | | | | | |
| 12 | | | | | | | | | | |
| 14 | | | | | -Several 24-inch boulders extracted at 13 feet | | | | | |
| 16 | | | | | -Slow difficult drill conditions; auger ripper and core barrel used throughout; 7 hours to drill 35 feet | | | | | |
| 18 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 28 | LB6-2 |  | | | | | | | | |

Figure A-7,
Log of Boring LB 6, Page 1 of 2

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| SAMPLE SYMBOLS | | | | | |
|---|-----------------------------|---|-------------------------------|---|--------------------------------|
|  | ... SAMPLING UNSUCCESSFUL |  | ... STANDARD PENETRATION TEST |  | ... DRIVE SAMPLE (UNDISTURBED) |
|  | ... DISTURBED OR BAG SAMPLE |  | ... CHUNK SAMPLE |  | ... WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 6 | | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------------|--------------|---|-------------|-------------------------|---|----------------------------------|---|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>347'</u> | DATE COMPLETED <u>08-16-2021</u> | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>T. REIST</u> | | | |
| 30 | |  | | GM | MATERIAL DESCRIPTION | | | | | |
| 32 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| | | | | | REFUSAL AT 35 FEET Groundwater not encountered | | | | | |

**Figure A-7,
Log of Boring LB 6, Page 2 of 2**

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| | | | |
|-----------------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG-SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 7 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|-----------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) <u>340'</u> | DATE COMPLETED <u>08-17-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | |
| 0 | | | | ML | LANDSLIDE DEBRIS (Qls) Soft, dry, whitish-brown to grayish-brown, SILT; trace clay and subrounded gravel; pulverized soil matrix with small angular sandstone and siltstone fragments | | | | |
| 2 | | | | | At 5 feet: becomes damp | | | | |
| 4 | LB7-1 | | | | | | PUSH | | |
| 6 | LB7-2 | | | | | | | | |
| 8 | | | | | | | | | |
| 10 | LB7-3 | | | | | | 2 | | |
| 12 | | | | ML | Soft to firm, damp to moist, grayish-brown to brown, Clayey SILT; few subrounded gravel and small cobble up to 4-inch diameter; numerous fragments of siltstone and claystone throughout | | | | |
| 14 | | | | | | | | | |
| 16 | LB7-4 | | | | | | 4 | | |
| 18 | | | | CL | Firm, moist, brown, Sandy CLAY with gravel | | | | |
| 20 | | | | CL | Firm, moist, brown to reddish-brown, medium coarse, Sandy CLAY; few subrounded gravel and angular sandstone/siltstone fragments | | | | |
| 22 | | | | ML | Soft, damp to moist, grayish-brown, Clayey SILT; few subrounded gravel and sandstone and siltstone fragments; disseminated caliche throughout | | | | |
| 24 | | | | | | | | | |
| 26 | | | | | | | | | |
| 28 | LB7-5 | | | SM | Loose, dry, grayish-brown, Silty, fine to medium SAND; friable with angular fragments of siltstone and claystone throughout BASAL SLIP SURFACE at 28.5 to 32 feet: 2 to 6-inch thick zone of pulverized claystone with limited remolding; 2 to 6-inch diameter subrounded | | | | |

Figure A-8,
Log of Boring LB 7, Page 1 of 3

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| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  ... SAMPLING UNSUCCESSFUL |  ... STANDARD PENETRATION TEST |  ... DRIVE SAMPLE (UNDISTURBED) |
| |  ... DISTURBED OR BAG SAMPLE |  ... CHUNK SAMPLE |  ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 7 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|--------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>340'</u> | DATE COMPLETED <u>08-17-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 30 | LB7-6 | | | SM | cobble along upper contact with overlying slide debris; top and bottom surfaces of shear zone are planar with some polish. Slide plane: N60°W/50°SW | | 8 | | |
| 32 | | | | ML | OTAY FORMATION (To) Hard, dry to damp, grayish-brown, very fine grained, Sandy SILTSTONE; few high-angle fractures with soft, moist, brown clay infill | | | | |
| 34 | | | | | At 35 feet: silty claystone interbedded with minor offset along subvertical fractures, bedding horizontal | | 10 | | |
| 36 | LB7-7 | | | | | | | | |
| 38 | | | | | | | | | |
| 40 | LB7-8 | | | | At 40 feet: 4-inch thick, olive brown, silty claystone bed with minor offset | | 10/8" | | |
| 42 | | | | | | | | | |
| 44 | | | | | At 43 feet: 12-inch thick olive brown, silty claystone bed | | | | |
| 46 | LB7-9 | | | | At 45 feet: 12-inch thick olive brown, silty claystone bed: N15°W/12°E | | 8 | | |
| 48 | | | | | | | | | |
| 50 | LB7-10 | | | | | | 6 | | |
| 52 | | | | | At 51 feet: high-angle fracture with soft, plastic, clay infill, fracture: N70°W/55°S | | | | |
| 54 | | | | | | | | | |
| 56 | LB7-11 | | | SM | At 56 feet: 2-inch thick, olive brown to grayish-brown, silty claystone interbeds. Bedding: N60°W/13°S | | 10/4" | | |
| 58 | | | | | Dense, damp, pale yellowish-brown, Silty, fine to medium SANDSTONE; massive, micaceous, occasional subhorizontal concretionary beds At 58 feet: broken concretionary bed with 1 to 2-inch offset along high-angle fracture | | | | |

Figure A-8,
Log of Boring LB 7, Page 2 of 3

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| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  SAMPLING UNSUCCESSFUL |  STANDARD PENETRATION TEST |  DRIVE SAMPLE (UNDISTURBED) |
| |  DISTURBED OR BAG SAMPLE |  CHUNK SAMPLE |  WATER TABLE OR  SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 7 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) | |
|----------------------|--------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|--|
| | | | | | ELEV. (MSL.) <u>340'</u> | DATE COMPLETED <u>08-17-2021</u> | | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | | |
| MATERIAL DESCRIPTION | | | | | | | | | | |
| 60 | LB7-12 | | | | | | 10/5" | | | |
| 62 | LB7-13 | | | | | | | | | |
| 64 | | | | | | | | | | |
| 66 | | | | | | | | | | |
| 68 | | | | | | | | | | |
| 70 | LB7-14 | | | | | | | 15/5" | | |
| 72 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 78 | | | | | | | | | | |
| 80 | LB7-15 | | | | | | | 20/6" | | |
| | | | | | BORING TERMINATED AT 80 FEET Groundwater not encountered Backfilled on 08-17-2021 | | | | | |

Figure A-8,
Log of Boring LB 7, Page 3 of 3

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| SAMPLE SYMBOLS | | | | | |
|----------------|-----------------------------|--|-------------------------------|--|---------------------------------|
| | ... SAMPLING UNSUCCESSFUL | | ... STANDARD PENETRATION TEST | | ... DRIVE SAMPLE (UNDISTURBED) |
| | ... DISTURBED OR BAG SAMPLE | | ... CHUNK SAMPLE | | ... WATER TABLE OR ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 8 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|-----------|-----------|-------------|-------------------|---|---------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) 293' | DATE COMPLETED 08-18-2021 | | | |
| | | | | | EQUIPMENT 30" BUCKET AUGER | | BY: R. ADAMS | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | SM | LANDSLIDE DEBRIS (Qls) Dense, dry to damp, grayish-white, Silty, fine to medium SANDSTONE; laminated and fractured | | | | |
| 2 | LB8-1 | | | ML | Hard, dry to damp, grayish-brown, Clayey SILTSTONE; massive to weakly bedding, bedding: near horizontal, 0.5-inch wide sand filled fractures/subvertical below contact | | | | |
| 4 | LB8-2 | | | SM | Dense, dry to damp, pale yellowish-white, Silty, fine to medium SANDSTONE; massive, few small concretions | | 5/10" | | |
| 6 | | | | | At 8.5-8.7 feet: 6-inch thick, brown, silty claystone bed with 2" offset along subvertical fractures noted above fracture: (N78E/58°S) | | | | |
| 8 | | | | | At 12 feet: few sand filled, subvertical fractures | | | | |
| 10 | LB8-3 | | | | | | 7 | | |
| 12 | | | | | | | | | |
| 14 | LB8-4 | | | | | | | | |
| 16 | LB8-5 | | | | At 16 feet: 2-inch thick brown to grayish-brown, silty claystone bed offset and truncated by fractures above; bedding horizontal (approx) | | 6/8" | | |
| 18 | | | | | | | | | |
| 20 | LB8-6 | | | ML | Hard, damp, olive gray to grayish-brown, Clayey SILTSTONE; massive, offset against subvertical fractures (12-inch offset) Fracture: N45E/60°SE; Bedding horizontal | | 7/10" | | |
| 22 | | | | SM | Dense, damp, grayish-brown to white, Silty, fine to medium SANDSTONE; laminated with 0.5-inch thick horizontal white laminae with 1 to 2-inch spacing, few 0.5-inch thick claystone interbeds (discontinuous) | | | | |
| 24 | | | | | | | | | |
| 26 | LB8-7 | | | | | | 8 | | |
| 28 | | | | | | | | | |

Figure A-9,
Log of Boring LB 8, Page 1 of 2

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| | | | | | | | |
|----------------|---|-------------------------|---|---------------------------|---|----------------------------|---|
| SAMPLE SYMBOLS |  | SAMPLING UNSUCCESSFUL |  | STANDARD PENETRATION TEST |  | DRIVE SAMPLE (UNDISTURBED) | |
| |  | DISTURBED OR BAG SAMPLE |  | CHUNK SAMPLE |  | WATER TABLE OR |  |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 8 | | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|-----------|-----------|-------------|-------------------|--|---------------------------|---|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) 293' | DATE COMPLETED 08-18-2021 | EQUIPMENT 30" BUCKET AUGER BY: R. ADAMS | | | |
| | | | | | MATERIAL DESCRIPTION | | | | | |
| 30 | LB8-9 | | | SM | | | | 5 | | |
| 32 | LB8-8 | | | CH | BASAL SLIP SURFACE at 31.5 to 33.5 feet; Soft to very stiff, damp to moist, pinkish-brown to pinkish-white bentonite; plastic continuous and remolded; additional remolding at 32.6 feet; bedding is near horizontal $\lt; 3^\circ$ | | | | | |
| 34 | | | | SM | OTAY FORMATION (To) Dense, damp, olive brown, Silty, very fine grained SANDSTONE; massive (gunbarrel), few siltstone interbeds | | | 10/6" | | |
| 36 | LB8-10 | | | | | | | | | |
| 38 | | | | ML | Hard, damp, dark brown to grayish-brown, very fine grained, Sandy SILTSTONE with few clayey siltstone interbeds; massive to very weakly bedded, bedding is horizontal | | | | | |
| 40 | LB8-11 | | | | | | | 10/10" | | |
| 42 | | | | | | | | | | |
| 44 | | | | SM | Dense to very dense, damp, pale yellowish white, Silty, fine to medium SANDSTONE; massive, micaceous | | | | | |
| 46 | | | | | | | | | | |
| 48 | | | | | BORING TERMINATED AT 48 FEET Groundwater not encountered Backfilled on 08-18-2021 | | | | | |

Figure A-9,
Log of Boring LB 8, Page 2 of 2

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| | | | | | | |
|----------------|--|-----------------------------|--|-------------------------------|--|----------------------------------|
| SAMPLE SYMBOLS | | ... SAMPLING UNSUCCESSFUL | | ... STANDARD PENETRATION TEST | | ... DRIVE SAMPLE (UNDISTURBED) |
| | | ... DISTURBED OR BAG SAMPLE | | ... CHUNK SAMPLE | | ... WATER TABLE OR ... SEE PAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 9 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|-----------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) <u>271'</u> | DATE COMPLETED <u>08-18-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | |
| 0 | | | | CL | LANDSLIDE DEBRIS (Qls) Hard, damp, grayish-brown, CLAY; highly fractured, bedding: N70E/11°N | | | | |
| 2 | | | | SM | Medium dense to dense, dry to damp, pale yellowish-white, Silty SAND; several sandy clay filled subvertical. some with 8-inch opening | | | | |
| 4 | LB9-1 | | | | | | 2 | | |
| 6 | LB9-10 | | | CH | BASAL SLIP SURFACE from 6 to 9.5 feet; Soft, moist, olive brown, Clay bed; bed in variable in thickness (6 to 12-inch) with offset along high-angle fractures, upper 1 to 4-inch is highly plastic and remolded, chunks of silty sandstone incorporated into remolded zone claystone, bed is bifurcated and ramped | | | | |
| 8 | | | | CH | | | | | |
| 10 | LB9-2 | | | SM | Soft to firm, damp to moist, brown, pinkish-brown, pink bentonite bed; weak to moderately to highly sheared, top contact undulatory; bottom contact is planar: N80°E/2-6°S | | 8/10" | | |
| 12 | | | | | OTAY FORMATION (To) Dense, damp, pale, yellowish-brown, Silty, very fine grained SANDSTONE interbedded with olive brown, very fine grained, Sandy SILTSTONE; horizontal bedding | | | | |
| 14 | LB9-3 | | | | | | 6/5" | | |
| 16 | | | | | | | | | |
| 18 | | | | ML | Hard, moist, olive gray to olive brown, Clayey SILTSTONE; massive | | | | |
| 20 | LB9-4 | | | | | | 8/8" | | |
| 22 | | | | SM | Dense, damp, pale, yellowish-brown, Silty, very fine grained SANDSTONE; few 2 to 6-inch thick brown clayey siltstone interbeds; bedding horizontal | | | | |
| 24 | LB9-5 | | | | | | 8/10" | | |
| 26 | | | | | | | | | |
| 28 | | | | SM | Dense, damp, pale yellowish brown, Silty, fine to medium SANDSTONE; | | | | |

Figure A-10,
Log of Boring LB 9, Page 1 of 2

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| | | | | | | |
|----------------|---|-----------------------------|---|-------------------------------|---|--|
| SAMPLE SYMBOLS |  | ... SAMPLING UNSUCCESSFUL |  | ... STANDARD PENETRATION TEST |  | ... DRIVE SAMPLE (UNDISTURBED) |
| |  | ... DISTURBED OR BAG SAMPLE |  | ... CHUNK SAMPLE |  | ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 9 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|--------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>271'</u> | DATE COMPLETED <u>08-18-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 30 | LB9-6 | | | SM | massive; occasional isolated 2 to 6-inch concretions and 1 to 2-inch thick concretionary beds | | 10/8" | | |
| 32 | | | | | | | | | |
| 34 | | | | | | | | | |
| 36 | LB9-7 | | | | | | 10/8" | | |
| 38 | | | | | | | | | |
| 40 | LB9-8 | | | | | | 10/8" | | |
| 42 | | | | | | | | | |
| 44 | | | | ML | Hard, damp, olive brown, Clayey SILTSTONE; massive; top contact is horizontal | | | | |
| 46 | LB9-9 | | | CL/CH | Stiff to hard, moist, pink, bentonitic CLAYSTONE; no remolding | | 10 | | |
| 48 | | | | ML | Hard, damp to moist, olive brown, Clayey SILTSTONE; massive | | | | |
| 50 | | | | | BORING TERMINATED AT 50 FEET Groundwater not encountered Backfilled on 08-18-2021 | | | | |

Figure A-10,
Log of Boring LB 9, Page 2 of 2

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| SAMPLE SYMBOLS | | |
|----------------|-----------------------------|--|
| | ... SAMPLING UNSUCCESSFUL | |
| | ... DISTURBED OR BAG SAMPLE | |
| | ... CHUNK SAMPLE | |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 10 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|--------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>349'</u> | DATE COMPLETED <u>08-19-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 0 | | | | ML | LANDSLIDE DEBRIS (Qls) Soft, dry, grayish-brown, Sandy SILT; friable, isolated subrounded gravel and cobble throughout | | | | |
| 2 | | | | | | | | | |
| 4 | | | | | | | | | |
| 6 | LB10-1 | | | | | | 3 | | |
| 8 | | | | CL | Soft, damp, brown, Sandy CLAY; isolated angular cluster of claystone within clay native, occasional pods of caliche | | | | |
| 10 | LB10-2 | | | SM | Loose, dry to damp, orangish-brown, Silty, fine to medium SAND; angular sandstone fragments throughout | | 4 | | |
| 12 | | | | | At 13 feet: numerous 4 to 12-inch diameter subrounded cobble | | | | |
| 14 | | | | | | | | | |
| 16 | | | | | | | | | |
| 18 | | | | CH | PRIMARY BASAL SLIP SURFACE: from 18 to 21 feet; primary slip surface consisting of 0.5-inch thick, brown plastic clay bed, polished and striated along basal slip surface, N42°W/45°-50°S; striae are down dip. | | | | |
| 20 | LB10-3 | | | | Below BSS becomes hard, reddish brown, claystone; highly brecciated with ramping juxtaposing claystone and sandstone | | 3 | | |
| 22 | | | | | At 23 feet: lower remolded clay bed; weakly remolded (N35°W/70°SW) | | | | |
| 24 | | | | | | | | | |
| 26 | LB10-4 | | | SM | OTAY FORMATION (To) Dense, dry to damp, pale yellowish brown to white, Silty, very fine grained SANDSTONE; massive, micaceous | | 8 | | |
| 28 | | | | ML | Hard, damp, olive brown, very fine grained, Sandy SILTSTONE | | | | |

Figure A-11,
Log of Boring LB 10, Page 1 of 4

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| | | | | | | |
|----------------|---|-----------------------------|---|-------------------------------|---|--|
| SAMPLE SYMBOLS |  | ... SAMPLING UNSUCCESSFUL |  | ... STANDARD PENETRATION TEST |  | ... DRIVE SAMPLE (UNDISTURBED) |
| |  | ... DISTURBED OR BAG SAMPLE |  | ... CHUNK SAMPLE |  | ... WATER TABLE OR  ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 10 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|-----------|-----------|-------------|-------------------|--|----------------------------------|------------------------------------|----------------------|----------------------|
| | | | | | ELEV. (MSL.) <u>349'</u> | DATE COMPLETED <u>08-19-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | |
| 30 | LB10-5 | | | CL | Hard, damp, reddish-brown, Silty, CLAYSTONE; some anastomosing, subvertical fractures with 1/16-inch opening | | 8 | | |
| 32 | LB10-6 | | | | | | | | |
| 34 | | | | ML | Hard, damp, grayish-brown to yellowish-brown, very fine grained, Sandy SILTSTONE; micaceous, weakly laminated | | 10 | | |
| 36 | LB10-7 | | | | | | | | |
| 38 | | | | CL | Hard, damp, reddish-brown, Silty CLAYSTONE | | 10 | | |
| 40 | LB10-8 | | | | | | | | |
| 42 | | | | ML | Hard, damp, pale yellowish-brown, very fine grained, Sandy SILTSTONE | | 10 | | |
| 44 | LB10-9 | | | | | | | | |
| 46 | | | | | BEDDING PLANE SHEAR at 41.8 feet: 2 to 3-inch thick, reddish-brown, clay bed with weak to moderate remolding along top surface; poorly developed bedding plane shear; bedding is horizontal | | 10/10" | | |
| 48 | LB10-10 | | | | | | | | |
| 50 | | | | CL | Hard, damp, reddish-brown, CLAYSTONE; some fracturing: N73°W/88°S | | 10/10" | | |
| 52 | LB10-11 | | | | | | | | |
| 54 | | | | SM | Dense, dry to damp, yellowish-brown to whitish-brown, Silty, fine to medium SANDSTONE; weakly laminated, fractured with some open and sand-filled fractures: N65°E/70°W/vertical | | 10/8" | | |
| 56 | LB10-11 | | | | | | | | |
| 58 | | | | | Prominent fracture between 56 to 59 feet; Hard, damp, brown, Silty CLAYSTONE; juxtaposed to dense, damp, orangish-white, Silty, fine SANDSTONE; 0.5 to 2-inch of clay gouge between two polished surfaces, Fracture: N70°E/68°S, striae 68° towards S20°E) | | 10/8" | | |
| | | | | | | | | | |

Figure A-11,
Log of Boring LB 10, Page 2 of 4

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| | | | | | | |
|----------------|--|-------------------------|--|---------------------------|--|----------------------------|
| SAMPLE SYMBOLS | | SAMPLING UNSUCCESSFUL | | STANDARD PENETRATION TEST | | DRIVE SAMPLE (UNDISTURBED) |
| | | DISTURBED OR BAG SAMPLE | | CHUNK SAMPLE | | WATER TABLE OR SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 10 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|--------------|-----------|-------------|-------------------------|---|----------------------------------|--|-------------------------|-------------------------|
| | | | | | ELEV. (MSL.) <u>349'</u> | DATE COMPLETED <u>08-19-2021</u> | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> | | BY: <u>R. ADAMS</u> | | |
| MATERIAL DESCRIPTION | | | | | | | | | |
| 60 | | | | CL | Hard, damp to moist, brown, Silty CLAYSTONE; blocky and fractured with some weak friable zones | | | | |
| 62 | | | | | | | | | |
| 64 | | | | | | | | | |
| 66 | LB10-12 | | | SM | Dense, damp, pale yellowish-brown to whitish-brown, Silty, fine to medium SANDSTONE; laminated and micaceous, hole caved between 65-70 feet along several parallel high angle fractures: N30E/80°SE | 10/8" | | | |
| 68 | | | | | | | | | |
| 70 | LB10-13 | | | SM | Dense, damp, pale orangish-brown to yellowish-brown, Silty, fine SANDSTONE with olive brown sandy siltstone interbeds, massive, substantially less fracturing below 70 feet | 15/8" | | | |
| 72 | | | | | | | | | |
| 74 | | | | | | | | | |
| 76 | LB10-14 | | | | | 15/8" | | | |
| 78 | | | | | At 78 feet: few isolated concretions | | | | |
| 80 | LB10-15 | | | | | 25/6" | | | |
| 82 | | | | | At 81 feet: few small pink bentonitic clay rip-up clasts | | | | |
| 84 | | | | | | | | | |
| 86 | LB10-16 | | | ML | Hard, damp, olive brown to yellowish brown, very fine grained, Sandy SILTSTONE; trace clay; massive | 25/10" | | | |
| 88 | | | | SM | Dense, damp, yellowish-brown, Silty, fine to medium SANDSTONE; massive | | | | |

Figure A-11,
Log of Boring LB 10, Page 3 of 4

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| SAMPLE SYMBOLS | | | |
|----------------|-----------------------------|--|---------------------------------|
| | ... SAMPLING UNSUCCESSFUL | | ... STANDARD PENETRATION TEST |
| | ... DISTURBED OR BAG SAMPLE | | ... CHUNK SAMPLE |
| | | | ... WATER TABLE OR ... SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 10 ELEV. (MSL.) <u>349'</u> DATE COMPLETED <u>08-19-2021</u> EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---------------|-----------|-----------|-------------|-------------------|--|------------------------------------|----------------------|----------------------|
| | | | | | MATERIAL DESCRIPTION | | | |
| 90 | LB10-17 | | | CH | Soft, firm, damp to moist, pink to whitish-pink, plastic CLAYSTONE; bentonite; several continuous 1/8-14" thick highly plastic remolded zones throughout, BEDDING PLANE SHEAR: at 91.5 feet; 1/4 to 1/2-inch thick soft, plastic, brown, highly remolded clay gouge (N50°E/6°SE) Hard, damp, olive brown, very fine grained, Sandy SILTSTONE; massive | 20 | | |
| 92 | LB10-18 | | | ML | | | | |
| 94 | LB10-19 | | | | | | 30/6" | |
| 96 | | | | | | | | |
| 98 | | | | | | | | |
| 100 | | | | | BORING TERMINATED AT 100 FEET Groundwater not encountered Backfilled on 08-19-2021 | | | |

Figure A-11,
Log of Boring LB 10, Page 4 of 4

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| SAMPLE SYMBOLS | | |
|----------------|---------------------------|---------|
| | SAMPLING UNSUCCESSFUL | |
| | DISTURBED OR BAG SAMPLE | |
| | STANDARD PENETRATION TEST | |
| | CHUNK SAMPLE | |
| | WATER TABLE OR | |
| | | SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 11 | | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) | |
|---------------|-------------------|-----------|-------------|-------------------|---|---|------------------------------------|----------------------|----------------------|--|
| | | | | | ELEV. (MSL.) <u>291'</u> | DATE COMPLETED <u>08-20-2021</u> | | | | |
| | | | | | EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | | | | | |
| | | | | | MATERIAL DESCRIPTION | | | | | |
| 0 | | | | CL | LANDSLIDE DEBRIS (Qls) Stiff, moist, dark brown to olive brown, Sandy CLAY; numerous angular rock fragments and caliche pods and stringers | | | | | |
| 2 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 6 | LB11-1 | | | | | | 3 | | | |
| 8 | LB11-3 | | | | | At 6 feet: mix of sandy clay and sandy silt with angular rock fragments At 6-9.5 feet: high angle fracture juxtaposing sandstone and heterogeneous mix of broken siltstone and sandstone fragments in clayey matrix of north wall of boring, no gouge, remolding or polished surfaces note. Fracture: (N85°W/69°-75°N) | | | | |
| 10 | LB11-2 | | | SM | Dense, damp, pale yellowish-brown, Silty, fine to medium SANDSTONE; numerous clay filled fractured with rootlets | | 5 | | | |
| 12 | | | | | At 12 feet: broken clayey siltstone interbeds | | | | | |
| 14 | | | | | At 14 feet: offset 3-inch thick brown claystone bed, (approx. bedding N75W/11°NE); fractures are subvertical, filled with fine sand and extend down to approximately 25 feet | | 6 | | | |
| 16 | LB11-4 | | | | | | | | | |
| 18 | | | | | | | | | | |
| 20 | LB11-5 | | | | At 21 feet: broken/offset concretionary bed | | 8/10" | | | |
| 22 | | | | | At 22 feet: broken/offset silty claystone bed | | | | | |
| 24 | | | | | | | | | | |
| 26 | LB11-6 | | | | | | 6 | | | |
| 28 | LB11-12 LB11-7 | | | CH | BASAL SLIP SURFACE from 26.5 to 28.5 feet: 18-inch thick, pink to whitish-pink to pinkish-brown, bentonite clay seam, capped by 0.5 to 2.5-inch thick brown highly remolded clay top and bottom with numerous polished parting surfaces, bentonite seam is sheared and brecciated, roots present along basal surface | | | | | |

Figure A-12,
Log of Boring LB 11, Page 1 of 2

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| | | | |
|----------------|---|---|--|
| SAMPLE SYMBOLS |  SAMPLING UNSUCCESSFUL |  STANDARD PENETRATION TEST |  DRIVE SAMPLE (UNDISTURBED) |
| |  DISTURBED OR BAG SAMPLE |  CHUNK SAMPLE |  WATER TABLE OR  SEEPAGE |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

| DEPTH IN FEET | SAMPLE NO | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | BORING LB 11 ELEV. (MSL.) <u>291'</u> DATE COMPLETED <u>08-20-2021</u> EQUIPMENT <u>30" BUCKET AUGER</u> BY: <u>R. ADAMS</u> | PENETRATION RESISTANCE (BLOWS/FT.) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|----------------------|-----------|-----------|-------------|-------------------|---|------------------------------------|----------------------|----------------------|
| MATERIAL DESCRIPTION | | | | | | | | |
| 30 | LB11-8 | | | SM | upper BPS N45E/10-14°SE; lower BPS subhorizontal <2° Dip OTAY FORMATION (To) Dense, damp, olive brown to pale yellowish-brown, Silty, fine SANDSTONE; massive (gunbarrel), micaceous, few 1 to 4-inch thick brown, silty claystone interbeds | 10/8" | | |
| 32 | | | | | | | | |
| 34 | | | | | | | | |
| 36 | LB11-9 | | | | | 12/6" | | |
| 38 | | | | ML | Hard, damp, olive brown to reddish-brown, very fine grained, Sandy SILTSTONE; trace clay, massive | | | |
| 40 | LB11-10 | | | SM | Dense, damp, pale yellowish-brown, Silty, very fine grained SANDSTONE; massive, micaceous, few concretionary zones | 12/8" | | |
| 42 | | | | | | | | |
| 44 | | | | | At 44 feet: 4 to 6-inch thick reddish-brown, claystone bed with minor offset/hanging along subvertical fracture | | | |
| 46 | LB11-11 | | | SM | -clay bed bedding subhorizontal; fracture: N15W/75°W Dense, damp, pale yellowish brown to white, Silty, medium to coarse SANDSTONE; massive | 15/8" | | |
| 48 | | | | | | | | |
| 50 | | | | | BORING TERMINATED AT 50 FEET Groundwater not encountered Backfilled on 08-20-2021 | | | |

Figure A-12,
Log of Boring LB 11, Page 2 of 2

06847-42-05.GPJ

| SAMPLE SYMBOLS | | |
|----------------|-------------------------|--|
| | SAMPLING UNSUCCESSFUL | |
| | DISTURBED OR BAG SAMPLE | |
| | | |
| | | |
| | | |
| | | |

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



GEOCON

Log of Boring CC 1

Projec No.: 06847-42-05
 Client:

Date: 8/3/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 490.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|--|-------------------------|
| 1 | 489 | | | | | | | Boring cased to 9 feet. |
| 2 | 488 | | | | | | | |
| 3 | 487 | | | | | | | |
| 4 | 486 | | | | | | | |
| 5 | 485 | | | | | | | |
| 6 | 484 | | | | | | | |
| 7 | 483 | | | | | | | |
| 8 | 482 | | | | | | | |
| 9 | 481 | | | | | | | |
| 10 | 480 | 1 | 2.5 | 40 | | | VERY OLD PARALIC DEPOSITS (Qvop) Dense, damp, light brown, Silty, fine to coarse SAND with interbedded gravel size rock fragments up to 3 inches. -Charcoal flecks present below. -Lower cohesion below 16.5 feet. | |
| 11 | 479 | | | | | | | |
| 12 | 478 | | | | | | | |
| 13 | 477 | | | | | | | |
| 14 | 476 | 1 | 5 | 90 | | | | |
| 15 | 475 | | | | | | | |
| 16 | 474 | | | | | | | |
| 17 | 473 | | | | | SM | | |
| 18 | 472 | | | | | | | |
| 19 | 471 | 1 | 5 | 40 | | | | |
| 20 | 470 | | | | | | | |
| 21 | 469 | | | | | | | |
| 22 | 468 | | | | | | | |
| 23 | 467 | 1 | 3.5 | 71 | | | | |
| 24 | 466 | | | | | | | |



GEOCON

Log of Boring CC 1

Projec No.: 06847-42-05
 Client:

Date: 8/3/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 490.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 26 | 464 | 2 | 1.5 | 33 | | SM | | |
| 27 | 463 | | | | | | | Dense, damp, light brown, fine to coarse, Sandy GRAVEL with some interbeds of silty sand. |
| 28 | 462 | 2 | 3.5 | 57 | | GM | | |
| 29 | 461 | | | | | | | Dense, damp, light brown, fine to medium SAND with low cohesion. |
| 30 | 460 | | | | | | | |
| 31 | 459 | 2 | 1.5 | 0 | | | | Dense, damp, light brown, fine to coarse, Sandy GRAVEL with some silty to clayey sand lenses. |
| 32 | 458 | | | | | | | |
| 33 | 457 | | | | | SP | | |
| 34 | 456 | 2 | 5 | 90 | | | | |
| 35 | 455 | | | | | | | Dense, damp, light brown, fine to coarse, Sandy GRAVEL with some silty to clayey sand lenses. |
| 36 | 454 | | | | | | | |
| 37 | 453 | | | | | | | Dense, damp, gray, Silty, fine SAND with mica and trace gravel. |
| 38 | 452 | 2 | 3.5 | 100 | | | | |
| 39 | 451 | | | | | | | |
| 40 | 450 | | | | | | | |
| 41 | 449 | 3 | 1.5 | 67 | | | | Dense, damp, gray, Silty, fine SAND with mica and trace gravel. |
| 42 | 448 | | | | | GM | | |
| 43 | 447 | 3 | 3 | 83 | | | | |
| 44 | 446 | | | | | | | |
| 45 | 445 | 3 | 1 | 50 | | | | Dense, damp, gray, Silty, fine SAND with mica and trace gravel. |
| 46 | 444 | 3 | 1 | 100 | | | | |
| 47 | 443 | | | | | | | |
| 48 | 442 | 3 | 5 | 100 | | | | |
| 49 | 441 | | | | | SM | | |



GEOCON

Log of Boring CC 1

Projec No.: 06847-42-05
Client:

Date: 8/3/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 490.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 51 | 439 | 3 | 5 | 100 | | | | -Becomes gray to light brown with some orange mottling below 51 feet. |
| 52 | 438 | | | | | | | |
| 53 | 437 | | | | | | | |
| 54 | 436 | 4 | 5 | 100 | | | | -Becomes fine to medium grained below 54 feet. |
| 55 | 435 | | | | | | | |
| 56 | 434 | | | | | SM | | -Becomes predominately gray with faint orange staining below 56 feet. |
| 57 | 433 | | | | | | | |
| 58 | 432 | | | | | | | |
| 59 | 431 | 4 | 5 | 100 | | | | |
| 60 | 430 | | | | | | | |
| 61 | 429 | | | | | | | -Sharp contact. |
| 62 | 428 | | | | | | | OTAY FORMATION (To) |
| 63 | 427 | | | | | | | Dense, damp, gray, Silty, fine SANDSTONE. |
| 64 | 426 | 5 | 5 | 100 | | | | |
| 65 | 425 | | | | | | | |
| 66 | 424 | | | | | | | |
| 67 | 423 | | | | | SM | | -4-inch thick, gray sandy claystone bed at 66.5 feet. |
| 68 | 422 | | | | | | | |
| 69 | 421 | 5 | 5 | 100 | | | | |
| 70 | 420 | | | | | | | |
| 71 | 419 | | | | | | | |
| 72 | 418 | | | | | | | |
| 73 | 417 | 6 | 5 | 100 | | | | Hard, moist, gray, interbedded Silty CLAYSTONE and Clayey to fine, Sandy SILTSTONE. |
| 74 | 416 | | | | | CL&ME | | |



GEOCON

Log of Boring CC 1

Projec No.: 06847-42-05
 Client:

Date: 8/3/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 490.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 76 | 414 | 6 | 5 | 100 | CL&M | | | -Becomes reddish brown with olive green mottling below 75.5 feet. |
| | | | | | | | | BORING TERMINATED AT 76,5 FEET Groundwater not encountered. |



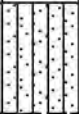

GEOCON

Log of Boring CC 2

Projec No.: 06847-42-05
 Client:

Date: 8/5/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 486.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|---|---|
| 1 | 485 | | | | | | | Boring cased to 9 feet. |
| 2 | 484 | | | | | | | |
| 3 | 483 | | | | | | | |
| 4 | 482 | | | | | | | |
| 5 | 481 | | | | | | | |
| 6 | 480 | | | | | | | |
| 7 | 479 | | | | | | | |
| 8 | 478 | | | | | | | |
| 9 | 477 | | | | | | | |
| 10 | 476 | 1 | 2 | 100 | | SM |  | VERY OLD PARALIC DEPOSITS (Qvop) Dense, damp, light brown, Silty, fine to medium SAND. |
| 11 | 475 | | | | | | | Dense, damp, light brown, Silty, fine to coarse, Sandy GRAVEL with interbedded silty, fine to coarse SAND layers. |
| 12 | 474 | | | | | | | |
| 13 | 473 | 1 | 4 | 63 | | | |  |
| 14 | 472 | | | | | | | |
| 15 | 471 | 1 | 1 | 0 | | | | |
| 16 | 470 | | | | | | | |
| 17 | 469 | | | | | | | |
| 18 | 468 | 1 | 5 | 90 | | GM | | |
| 19 | 467 | | | | | | | |
| 20 | 466 | | | | | | | |
| 21 | 465 | | | | | | | |
| 22 | 464 | | | | | | | |
| 23 | 463 | 2 | 5 | 100 | | | | |
| 24 | 462 | | | | | | | |



GEOCON

Log of Boring CC 2

Projec No.: 06847-42-05
 Client:

Date: 8/5/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 486.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 26 | 460 | 2 | 5 | 100 | | | | |
| 27 | 459 | 2 | 2 | 100 | | | | |
| 28 | 458 | | | | | | | |
| 29 | 457 | 2 | 3 | 100 | | | | |
| 30 | 456 | | | | | | | |
| 31 | 455 | | | | | | | |
| 32 | 454 | | | | | | | |
| 33 | 453 | 3 | 5 | 100 | | | | |
| 34 | 452 | | | | | | | |
| 35 | 451 | | | | | | | |
| 36 | 450 | | | | | GM | | |
| 37 | 449 | 3 | 1 | 100 | | | | |
| 38 | 448 | | | | | | | |
| 39 | 447 | 3 | 4 | 100 | | | | |
| 40 | 446 | | | | | | | |
| 41 | 445 | | | | | | | |
| 42 | 444 | | | | | | | |
| 43 | 443 | 4 | 5 | 100 | | | | |
| 44 | 442 | | | | | | | |
| 45 | 441 | | | | | | | |
| 46 | 440 | | | | | | | |
| 47 | 439 | | | | | | | Dense, damp, gray with some orange mottling, Silty, SAND with mica. |
| 48 | 438 | 4 | 5 | 90 | | SM | | |
| 49 | 437 | | | | | | | |



GEOCON

Log of Boring CC 2

Projec No.: 06847-42-05
Client:

Date: 8/5/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 486.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 51 | 435 | 4 | 5 | 90 | | | | -Fine grained lenses present below 51 feet. |
| 52 | 434 | | | | | | | |
| 53 | 433 | 5 | 5 | 90 | | | | |
| 54 | 432 | | | | | | | |
| 55 | 431 | | | | | SM | | |
| 56 | 430 | | | | | | | |
| 57 | 429 | | | | | | | |
| 58 | 428 | 5 | 4 | 100 | | | | |
| 59 | 427 | | | | | | | |
| 60 | 426 | | | | | | | -Becomes fine to medium grained at 59.5 feet -Sharp contact. |
| 61 | 425 | 6 | 1 | 100 | | | | OTAY FORMATION (To) |
| 62 | 424 | | | | | SM | | Dense, damp, gray, Silty, fine SANDSTONE. -4-inch thick, brown claystone bed at 62 feet. |
| 63 | 423 | | | | | | | -Fracture at 62.5 feet; through going planar surface; no evidence of remolding. |
| 64 | 422 | 6 | 5 | 100 | | | | -Gradational contact. |
| 65 | 421 | | | | | | | Hard, moist, gray, Clayey to fine, Sandy SILTSTONE. -Fracture at 64.8 feet. |
| 66 | 420 | | | | | ML | | |
| 67 | 419 | 6 | 1.5 | 100 | | | | |
| 68 | 418 | | | | | | | Dense, damp, gray, Silty, fine SANDSTONE. |
| 69 | 417 | | | | | | | |
| 70 | 416 | 6 | 4 | 75 | | | | |
| 71 | 415 | | | | | SM | | -High angle fracture at 71.1 feet. |
| 72 | 414 | | | | | | | |
| 73 | 413 | 7 | 5 | 100 | | | | -6-inch cemented layer at 73 feet with 6-inch siltstone bed below. |
| 74 | 412 | | | | | CL | | Hard, moist, dark brown, Silty CLAYSTONE. |



GEOCON

Log of Boring CC 2

Projec No.: 06847-42-05
Client:

Date: 8/5/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 486.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 76 | 410 | 7 | 5 | 100 | | CL | | -Bedding Plane Shear at 75 feet; 1/8-inch thick, soft, moist, brown, remolded plastic clay gouge; apparent orientation near horizontal. |
| 77 | 409 | | | | | | | Hard, moist, gray, Clayey to fine Sandy SILTSTONE; brittle. |
| 78 | 408 | | | | | | | -High angle fracture at 76.6 feet. |
| 79 | 407 | 7 | 5 | 100 | | ML | | -High angle fracture at 78.7. |
| 80 | 406 | | | | | | | -High angle fracture at 79.7 feet. |
| 81 | 405 | | | | | | | Dense, damp, gray, very Silty, fine SANDSTONE. |
| 82 | 404 | | | | | SM | | -4-inch, thick brown, clayey sandstone bed at 81.5 feet |
| 83 | 403 | | | | | | | -High angle fracture at 81.5 feet. |
| 84 | 402 | 8 | 5 | 100 | | | | Hard, moist, gray, interbedded Silty CLAYSTONE and Clayey to fine, Sandy SILTSTONE. |
| 85 | 401 | | | | | | | |
| 86 | 400 | | | | | | | |
| 87 | 399 | | | | | | | -High angle fracture at 87.5 feet. |
| 88 | 398 | | | | | | | |
| 89 | 397 | 8 | 5 | 100 | | | | |
| 90 | 396 | | | | | | | |
| 91 | 395 | | | | | | | |
| 92 | 394 | | | | | CL&M | | -High angle fracture at 92 feet. |
| 93 | 393 | | | | | | | |
| 94 | 392 | 9 | 4 | 100 | | | | |
| 95 | 391 | | | | | | | |
| 96 | 390 | | | | | | | -Multiple fractures below 96 feet. |
| 97 | 389 | | | | | | | |
| 98 | 388 | 9 | 4.5 | 100 | | | | |
| 99 | 387 | | | | | | | |



GEOCON

Log of Boring CC 2

Projec No.: 06847-42-05
Client:

Date: 8/5/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 486.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| | | | | | | | | BORING TERMINATED AT 100 FEET Groundwater not encountered. |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
 Client:

Date: 8/12/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 483.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|---|-------------------------|
| 1 | 482 | | | | | | | Boring cased to 9 feet. |
| 2 | 481 | | | | | | | |
| 3 | 480 | | | | | | | |
| 4 | 479 | | | | | | | |
| 5 | 478 | | | | | | | |
| 6 | 477 | | | | | | | |
| 7 | 476 | | | | | | | |
| 8 | 475 | | | | | | | |
| 9 | 474 | | | | | | | |
| 10 | 473 | 1 | 2.5 | 0 | | | VERY OLD PARALIC DEPOSITS (Qvop) Dense, damp, light brown to brown, Silty, fine to coarse SAND with gravel and cobble lenses. | |
| 11 | 472 | | | | | | | |
| 12 | 471 | | | | | | | |
| 13 | 470 | | | | | | | |
| 14 | 469 | 1 | 5 | 0 | | | | |
| 15 | 468 | | | | | | | |
| 16 | 467 | | | | | | | |
| 17 | 466 | | | | | SM | | |
| 18 | 465 | | | | | | | |
| 19 | 464 | 1 | 5 | 30 | | | | |
| 20 | 463 | | | | | | | |
| 21 | 462 | | | | | | | |
| 22 | 461 | | | | | | | |
| 23 | 460 | 1 | 5 | 100 | | | | |
| 24 | 459 | | | | | | | |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
Client:

Date: 8/12/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 483.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|--|--|
| 26 | 457 | 1 | 5 | 100 | | SM | | -Becomes orange brown below 25 feet. |
| 27 | 456 | | | | | | | Dense, damp, brown, fine to coarse, Sandy GRAVEL with interbedded silty, fine to coarse sand lenses. |
| 28 | 455 | 2 | 4 | 100 | | | | |
| 29 | 454 | | | | | | | |
| 30 | 453 | | | | | | | |
| 31 | 452 | 2 | 1 | 0 | | | | |
| 32 | 451 | 2 | 1 | 100 | | | | |
| 33 | 450 | 2 | 1.5 | 67 | | | | |
| 34 | 449 | | | | | | | |
| 35 | 448 | 2 | 2.5 | 80 | | | | |
| 36 | 447 | | | | | GM | | |
| 37 | 446 | 2 | 1 | 50 | | | | |
| 38 | 445 | | | | | | | |
| 39 | 444 | 2 | 2.5 | 60 | | | | |
| 40 | 443 | | | | | | | |
| 41 | 442 | 2 | 1.5 | 67 | | | | |
| 42 | 441 | 2 | 1 | 50 | | | | |
| 43 | 440 | | | | | | | |
| 44 | 439 | 2 | 3 | 67 | | | | |
| 45 | 438 | | | | | | | |
| 46 | 437 | 3 | 1 | 50 | | | Dense, damp, light brown, Silty, fine to coarse SAND with some gravel interbeds. | |
| 47 | 436 | | | | | | | |
| 48 | 435 | 3 | 5 | 70 | | SM | | |
| 49 | 434 | | | | | | | |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
Client:

Date: 8/12/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 483.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 51 | 432 | 3 | 5 | 70 | | SM | | |
| 52 | 431 | | | | | | | -Sharp contact. |
| 53 | 430 | | | | | | | Dense, damp, gray with orange mottling. Silty, fine SAND; micaceous. |
| 54 | 429 | 3 | 5 | 90 | | | | |
| 55 | 428 | | | | | | | |
| 56 | 427 | | | | | | | -Becomes orange brown and fine- to medium-grained below 56 feet. |
| 57 | 426 | | | | | | | -12-inch thick, fine to coarse layer at 57 feet. |
| 58 | 425 | | | | | | | |
| 59 | 424 | 4 | 5 | 100 | | SM | | |
| 60 | 423 | | | | | | | -Becomes predominately gray with some orange staining below 60 feet. |
| 61 | 422 | | | | | | | |
| 62 | 421 | | | | | | | |
| 63 | 420 | | | | | | | |
| 64 | 419 | 4 | 5 | 100 | | | | |
| 65 | 418 | | | | | | | -Becomes orange brown and fine- to coarse-grained with gravel at 64 feet. -Sharp contact. |
| 66 | 417 | | | | | | | OTAY FORMATION (To) |
| 67 | 416 | | | | | CL | | Hard, moist, pale green, Silty, CLAYSTONE. -Becomes gray-brown below 66.5 feet. |
| 68 | 415 | | | | | | | Hard, moist, gray, fine, Sandy SILTSTONE with some fractures at 68, 70.1 and 72.5 feet. |
| 69 | 414 | 5 | 5 | 100 | | | | |
| 70 | 413 | | | | | | | -Becomes sandier below 70 feet. |
| 71 | 412 | | | | | | | |
| 72 | 411 | | | | | ML | | -Becomes clayey siltstone below 71.5. |
| 73 | 410 | 5 | 5 | 100 | | | | |
| 74 | 409 | | | | | | | |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
 Client:

Date: 8/12/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 483.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 76 | 407 | 5 | 5 | 100 | | | SM | Dense, damp, gray, Silty, fine SANDSTONE. -High angle fracture at 75.5 feet. |
| 77 | 406 | | | | | | | |
| 78 | 405 | | | | | | | -Becomes very silty below 78 feet. |
| 79 | 404 | 6 | 5 | 100 | | | | |
| 80 | 403 | | | | | | CL | Hard, moist, brown with olive green mottling, Silty CLAYSTONE. -Moderately fractured below 82.8 feet. |
| 81 | 402 | | | | | | | |
| 82 | 401 | | | | | | | |
| 83 | 400 | | | | | | | |
| 84 | 399 | 6 | 5 | 100 | | | ML | Hard, damp, gray, fine, Sandy SILTSTONE with some silty claystone to clayey siltstone beds; moderately fractured between 84.5 and 86.5 feet. -Several high angle fractures below 86.5 feet. |
| 85 | 398 | | | | | | | |
| 86 | 397 | | | | | | | |
| 87 | 396 | | | | | | | |
| 88 | 395 | | | | | | ML | -Moderately fractured below 90.5. |
| 89 | 394 | 7 | 5 | 100 | | | | |
| 90 | 393 | | | | | | | |
| 91 | 392 | | | | | | | |
| 92 | 391 | | | | | | ML | |
| 93 | 390 | | | | | | | |
| 94 | 389 | 8 | 5 | 80 | | | | |
| 95 | 388 | | | | | | | |
| 96 | 387 | | | | | | ML | |
| 97 | 386 | | | | | | | |
| 98 | 385 | 8 | 5 | 90 | | | | |
| 99 | 384 | | | | | | | |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
Client:

Date: 8/12/21
Drilling Company: CASCADE

Location:

Excavation Method:
Boring Diameter: inches
Elevation: 483.0 feet above MSL
Geologist: T. REIST

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 101 | 382 | 8 | 5 | 90 | | | | |
| 102 | 381 | | | | | | | -Bedding Plane Shear Zone at 102 feet; zone of multiple of bedding plane shears up to 1/2-inch thick; soft, moist, green, highly remolded plastic clay gouge. |
| 103 | 380 | | | | | | | |
| 104 | 379 | 9 | 5 | 100 | | | | -Bedding Plane Shear at 104 feet; 1/4-inch thick, soft, moist, green, continuous, highly remolded. |
| 105 | 378 | | | | | | | |
| 106 | 377 | | | | | | | |
| 107 | 376 | | | | | | | -Bedding Plane Shear at 107 feet; 1/4-inch thick, soft, moist, green, continuous, highly remolded. |
| 108 | 375 | | | | | | | |
| 109 | 374 | 9 | 5 | 100 | | | | |
| 110 | 373 | | | | | | | |
| 111 | 372 | | | | | | | |
| 112 | 371 | | | | | CL | | -Bedding Plane Shear Zone between 111.5 and 111.8 feet; multiple 1/8 to 1/2-inch thick, soft, moist, gray-green, poorly remolded plastic clay gouge lenses. |
| 113 | 370 | | | | | | | |
| 114 | 369 | 10 | 5 | 100 | | | | |
| 115 | 368 | | | | | | | |
| 116 | 367 | | | | | | | |
| 117 | 366 | | | | | | | |
| 118 | 365 | 10 | 2 | 50 | | | | |
| 119 | 364 | | | | | | | |
| 120 | 363 | 10 | 3 | 100 | | | | |
| 121 | 362 | | | | | | | |
| 122 | 361 | | | | | | | |
| 123 | 360 | 11 | 5 | 100 | | | | -Bedding Plane Shear-Zone from 122 to 123 feet; Multiple BPS up to 1/2-inch thick; soft, moist, green, highly remolded plastic clay gouge. |
| 124 | 359 | | | | | | | -High angle fracture at 124 feet. |



GEOCON

Log of Boring CC 3

Projec No.: 06847-42-05
 Client:

Date: 8/12/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 483.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 126 | 357 | 11 | 5 | 100 | | CL | | |
| | | | | | | | | BORING TERMINATED AT 126.5 FEET Groundwater not encountered. |



GEOCON

Log of Boring CC 4

Projec No.: 06847-42-05
 Client:

Date: 8/18/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 442.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|---|---------------------------------|
| 1 | 441 | | | | | | | Boring cased to 4 feet. |
| 2 | 440 | | | | | | | |
| 3 | 439 | | | | | | | |
| 4 | 438 | | | | | | | |
| 5 | 437 | 1 | 2 | 100 | | | VERY OLD PARALIC DEPOSITS (Q_{vop}) Dense, damp, brown, fine to coarse, Sandy GRAVEL with interbedded silty to clayey, fine to coarse sand. | |
| 6 | 436 | | | | | | | |
| 7 | 435 | | | | | | | |
| 8 | 434 | 1 | 3.5 | 43 | | | | |
| 9 | 433 | | | | | | | |
| 10 | 432 | 1 | 1.5 | 67 | | | | |
| 11 | 431 | | | | | | | |
| 12 | 430 | 1 | 2.5 | 80 | | | | |
| 13 | 429 | | | | | | | |
| 14 | 428 | | | | | | | |
| 15 | 427 | 1 | 2.5 | 20 | | GM | | |
| 16 | 426 | | | | | | | |
| 17 | 425 | 1 | 2.5 | 60 | | | | |
| 18 | 424 | | | | | | | |
| 19 | 423 | | | | | | | |
| 20 | 422 | 1 | 2.5 | 80 | | | | |
| 21 | 421 | | | | | | | |
| 22 | 420 | | | | | | | |
| 23 | 419 | 2 | 5 | 80 | | | | -10-inch gravel bed at 23 feet. |
| 24 | 418 | | | | | | | |



GEOCON

Log of Boring CC 4

Projec No.: 06847-42-05
Client:

Date: 8/18/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 442.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 26 | 416 | 2 | 5 | 80 | | | | Dense, damp, light brown with some orange staining, Silty, fine to medium SAND. |
| 27 | 415 | | | | | | | |
| 28 | 414 | 2 | 5 | 100 | | | | -High angle fractures with dark brown clay infilling at 27.5 feet. |
| 29 | 413 | | | | | | | |
| 30 | 412 | | | | | | | |
| 31 | 411 | | | | | SM | | |
| 32 | 410 | | | | | | | |
| 33 | 409 | 3 | 5 | 100 | | | | |
| 34 | 408 | | | | | | | |
| 35 | 407 | | | | | | | |
| 36 | 406 | | | | | | | |
| 37 | 405 | | | | | | | |
| 38 | 404 | 3 | 5 | 100 | | SP | | Dense, wet, orange brown, fine to coarse SAND; low cohesion. |
| 39 | 403 | | | | | | | -Sharp contact. |
| 40 | 402 | | | | | SM | | OTAY FORMATION (To) Dense, damp, pale greenish gray, Silty, fine SANDSTONE. |
| 41 | 401 | | | | | | | -18-inch thick, gray-green claystone and siltstone bed at 40 feet. |
| 42 | 400 | | | | | | | Hard/dense, damp, grayish brown, fine, Sandy SILTSTONE/Silty, fine SANDSTONE. |
| 43 | 399 | 4 | 5 | 100 | | | | |
| 44 | 398 | | | | | | | |
| 45 | 397 | | | | | | | |
| 46 | 396 | | | | | ML/SM | | |
| 47 | 395 | | | | | | | |
| 48 | 394 | 4 | 5 | 100 | | | | |
| 49 | 393 | | | | | | | |



GEOCON

Log of Boring CC 4

Projec No.: 06847-42-05
Client:

Date: 8/18/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 442.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 51 | 391 | 4 | 5 | 100 | | | xxxxx | -8-inch thick, grayish brown claystone bed at 50 feet. |
| 52 | 390 | | | | | | xxxxx | |
| 53 | 389 | | | | | | xxxxx | |
| 54 | 388 | 5 | 5 | 100 | | | xxxxx | -High angle fracture at 53.8 feet. |
| 55 | 387 | | | | | | xxxxx | -20-inch thick, brown, silty claystone bed at 55 feet. |
| 56 | 386 | | | | | | xxxxx | |
| 57 | 385 | | | | | | xxxxx | -Moderately fractured below 57 feet. |
| 58 | 384 | | | | | | xxxxx | |
| 59 | 383 | 6 | 5 | 100 | | | xxxxx | |
| 60 | 382 | | | | | ML/SN | xxxxx | -4-inch thick, brown, silty claystone bed at 60.5 feet. |
| 61 | 381 | | | | | | xxxxx | |
| 62 | 380 | | | | | | xxxxx | |
| 63 | 379 | | | | | | xxxxx | |
| 64 | 378 | 6 | 5 | 100 | | | xxxxx | |
| 65 | 377 | | | | | | xxxxx | |
| 66 | 376 | | | | | | xxxxx | |
| 67 | 375 | | | | | | xxxxx | High angle fracture between 67 and 67.5 feet. |
| 68 | 374 | | | | | | xxxxx | |
| 69 | 373 | 7 | 5 | 100 | | | xxxxx | |
| 70 | 372 | | | | | | xxxxx | Hard, moist, brown with green mottling, Silty CLAYSTONE with some clayey/sandy siltstone beds. |
| 71 | 371 | | | | | | xxxxx | |
| 72 | 370 | | | | | CL | xxxxx | |
| 73 | 369 | 7 | 5 | 100 | | | xxxxx | |
| 74 | 368 | | | | | | xxxxx | |



GEOCON

Log of Boring CC 4

Projec No.: 06847-42-05
Client:

Date: 8/18/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 442.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 76 | 366 | 7 | 5 | 100 | | | XXXXXX | Hard/dense, damp, gray, fine to coarse, Sandy SILTSTONE to Silty, fine SANDSTONE. -High angle fracture at 76 feet. |
| 77 | 365 | | | | | | XXXXXX | |
| 78 | 364 | 8 | 5 | 80 | | | XXXXXX | |
| 79 | 363 | | | | | | | |
| 80 | 362 | | | | | | XXXXXX | |
| 81 | 361 | | | | | | XXXXXX | |
| 82 | 360 | | | | | ML&S | XXXXXX | -High angle fracture with clay infilling at 82.5 feet. |
| 83 | 359 | 8 | 5 | 100 | | | XXXXXX | |
| 84 | 358 | | | | | | | |
| 85 | 357 | | | | | | XXXXXX | |
| 86 | 356 | | | | | | XXXXXX | -High angle fracture at 85.6 feet. |
| 87 | 355 | | | | | | XXXXXX | -Bedding Plane Shear at 86 feet; 1/8-inch thick, soft, moist, moderately remolded plastic clay gouge |
| 88 | 354 | | | | | | XXXXXX | -Moderately fractured below 86 feet. |
| 89 | 353 | 9 | 5 | 100 | | | XXXXXX | Hard, moist, grayish brown, Silty CLAYSTONE; multiple fractures throughout. |
| 90 | 352 | | | | | | | |
| 91 | 351 | | | | | CL | XXXXXX | |
| 92 | 350 | | | | | | XXXXXX | |
| 93 | 349 | 9 | 5 | 100 | | | XXXXXX | Dense, damp, gray, Silty, fine SANDSTONE; moderately fractured between 92.5 and 93.2 feet. |
| 94 | 348 | | | | | | | |
| 95 | 347 | | | | | SM | XXXXXX | -High angle fracture at 93.8 feet. |
| 96 | 346 | | | | | | XXXXXX | |
| 97 | 345 | | | | | | XXXXXX | Hard, moist, grayish brown, Silty CLAYSTONE. |
| 98 | 344 | 10 | 5 | 100 | | | XXXXXX | -Fault between 98.3 and 98.7 feet; 4-inch thick zone of high angle fractures, fissuring and apparent slickensides with thin slightly remolded clay planes. |
| 99 | 343 | | | | | | | |



GEOCON

Log of Boring CC 4

Projec No.: 06847-42-05
Client:

Date: 8/18/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 442.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 101 | 341 | 10 | 5 | 100 | | | | -Zone of waxy claystone with shiny parting surfaces and fissuring; some paper thin remolded clay films; random orientation; no residual at 100 feet. |
| 102 | 340 | | | | | | | -10-inch thick, gray, clayey siltstone bed at 102 feet. |
| 103 | 339 | 10 | 5 | 100 | | | | -High angle fracture at 103 feet. |
| 104 | 338 | | | | | | | |
| 105 | 337 | | | | | | | |
| 106 | 336 | | | | | CL | | - Bedding Plane Shear at 106.2 feet; 1/4 to 1/2-inch thick, soft, moist, reddish brown, highly remolded plastic clay gouge with irregular thickness. |
| 107 | 335 | | | | | | | -16-inch thick, gray sandstone bed at 107.5 feet. |
| 108 | 334 | 11 | 5 | 70 | | | | -Multiple fractures below 107.7 feet. |
| 109 | 333 | | | | | | | |
| 110 | 332 | | | | | | | |
| 111 | 331 | | | | | | | |
| 112 | 330 | | | | | | | |
| 113 | 329 | 11 | 4 | 100 | | | | Hard damp, gray, Clayey and fine, Sandy SILTSTONE. |
| 114 | 328 | | | | | ML | | -High angle fracturing at 114 feet. |
| 115 | 327 | | | | | | | BORING TERMINATED AT 115 FEET Groundwater not encountered. |



GEOCON

Log of Boring CC 5

Projec No.: 06847-42-05
Client:

Date: 8/24/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 436.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 1 | 435 | | | | | | | VERY OLD PARALIC DEPOSITS (Qvp) Dense, damp to moist, brown, interbedded, Silty, fine to coarse SAND and fine to coarse, Sandy GRAVEL beds. |
| 2 | 434 | | | | | | | |
| 3 | 433 | 1 | 5 | 40 | | | | |
| 4 | 432 | | | | | | | |
| 5 | 431 | | | | | | | |
| 6 | 430 | | | | | | | |
| 7 | 429 | 1 | 2.5 | 60 | | | | |
| 8 | 428 | | | | | | | |
| 9 | 427 | | | | | | | |
| 10 | 426 | 1 | 2.5 | 60 | | | | |
| 11 | 425 | | | | | | | |
| 12 | 424 | | | | | | | |
| 13 | 423 | 1 | 5 | 80 | | SM&GL | | |
| 14 | 422 | | | | | | | |
| 15 | 421 | | | | | | | |
| 16 | 420 | | | | | | | |
| 17 | 419 | 1 | 2.5 | 60 | | | | |
| 18 | 418 | | | | | | | |
| 19 | 417 | | | | | | | |
| 20 | 416 | 2 | 2.5 | 60 | | | | |
| 21 | 415 | | | | | | | |
| 22 | 414 | | | | | | | |
| 23 | 413 | 2 | 5 | 80 | | | | |
| 24 | 412 | | | | | | | |



GEOCON

Log of Boring CC 5

Projec No.: 06847-42-05
Client:

Date: 8/24/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 436.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|------|-------|----------|------------|-----------|--|
| 26 | 410 | 2 | 5 | 80 | | | | |
| 27 | 409 | | | | | | | |
| 28 | 408 | | | | | | | |
| 29 | 407 | 2 | 5 | 100 | | | | |
| 30 | 406 | | | | | | | -Becomes orange brown between 29 and 31 feet. |
| 31 | 405 | | | | | | | |
| 32 | 404 | 3 | 2 | 100 | | | | |
| 33 | 403 | | | | | | | |
| 34 | 402 | 3 | 1 | 100 | | | | |
| 35 | 401 | 3 | 2 | 75 | | SM&G | | |
| 36 | 400 | | | | | | | |
| 37 | 399 | 3 | 2.5 | 100 | | | | |
| 38 | 398 | | | | | | | |
| 39 | 397 | 3 | 1 | 100 | | | | |
| 40 | 396 | 3 | 1.5 | 100 | | | | |
| 41 | 395 | | | | | | | |
| 42 | 394 | 4 | 1.5 | 100 | | | | |
| 43 | 393 | 4 | .75 | 67 | | | | |
| 44 | 392 | | | | | | | |
| 45 | 391 | 4 | 2.75 | 91 | | | | Dense, damp, light brown with orange staining, Silty, fine SAND. |
| 46 | 390 | | | | | | | |
| 47 | 389 | | | | | SM | | -Becomes greenish gray with orange staining below 46 feet. |
| 48 | 388 | 5 | 5 | 60 | | | | |
| 49 | 387 | | | | | | | |



GEOCON

Log of Boring CC 5

Projec No.: 06847-42-05
 Client:

Date: 8/24/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 436.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|---|
| 51 | 385 | 5 | 5 | 60 | | | | |
| 52 | 384 | | | | | | | |
| 53 | 383 | 5 | 5 | 100 | | | | |
| 54 | 382 | | | | | | | |
| 55 | 381 | | | | | | | |
| 56 | 380 | | | | | | | |
| 57 | 379 | | | | | SM | | |
| 58 | 378 | 5 | 5 | 100 | | | | |
| 59 | 377 | | | | | | | |
| 60 | 376 | | | | | | | |
| 61 | 375 | | | | | | | -Becomes fine to coarse between 61 and 63.5 feet. |
| 62 | 374 | | | | | | | |
| 63 | 373 | 6 | 5 | 90 | | | | |
| 64 | 372 | | | | | | | |
| 65 | 371 | | | | | | | OTAY FORMATION (To) |
| 66 | 370 | | | | | | | Hard/dense, damp, pale grayish brown, fine Sandy SILTSTONE and Silty, fine SANDSTONE. |
| 67 | 369 | | | | | | | |
| 68 | 368 | 6 | 5 | 100 | | ML&SM | | |
| 69 | 367 | | | | | | | |
| 70 | 366 | | | | | | | |
| 71 | 365 | | | | | | | Hard, moist, grayish brown, Silty CLAYSTONE. |
| 72 | 364 | | | | | | | |
| 73 | 363 | 7 | 5 | 100 | | CL | | |
| 74 | 362 | | | | | | | |



GEOCON

Log of Boring CC 5

Projec No.: 06847-42-05
Client:

Date: 8/24/21
Drilling Company: CASCADE
Excavation Method:
Boring Diameter: inches
Elevation: 436.0 feet above MSL
Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 76 | 360 | 7 | 5 | 100 | | | | -2-foot thick, siltstone/sandstone bed at 75 feet. |
| 77 | 359 | | | | | | | |
| 78 | 358 | | | | | | | -High angle fracture at 77.5 feet. |
| 79 | 357 | 7 | 5 | 100 | | CL | | -14-inch thick, siltstone/sandstone bed at 79 feet. |
| 80 | 356 | | | | | | | |
| 81 | 355 | | | | | | | -Fracturing below 80.5 feet -Becomes mottled brown and olive green below 80.5 feet. |
| 82 | 354 | | | | | | | -4-inch thick, fine sandstone bed at 81.5 feet. |
| 83 | 353 | | | | | | | -Becomes waxy below with high angle fracture at 82 feet. |
| 84 | 352 | 8 | 5 | 100 | | | | Hard/dense, damp, gray, fine, Sandy SILTSTONE and Silty, fine SANDSTONE. |
| 85 | 351 | | | | | | | |
| 86 | 350 | | | | | | | |
| 87 | 349 | | | | | ML&SL | | -14-inch claystone bed at 86 feet with Poorly Developed Bedding Plane Shear ; 1/8-inch thick, poorly remolded plastic clay gouge. |
| 88 | 348 | | | | | | | |
| 89 | 347 | 8 | 5 | 100 | | | | |
| 90 | 346 | | | | | | | -Moderately fractured at 90 feet. |
| 91 | 345 | | | | | | | |
| 92 | 344 | | | | | | | Hard, moist, grayish brown, Silty CLAYSTONE with some interbedded siltstone beds. |
| 93 | 343 | | | | | | | |
| 94 | 342 | 9 | 5 | 100 | | | | |
| 95 | 341 | | | | | | | -10-inch thick, unsheared, hard bentonite bed at 94.3 feet. |
| 96 | 340 | | | | | | CL | -8-inch siltstone bed at 95.5 feet. |
| 97 | 339 | | | | | | | |
| 98 | 338 | 9 | 5 | 100 | | | | -Several high angle fractures below 97.5 feet. |
| 99 | 337 | | | | | | | |



GEOCON

Log of Boring CC 5

Projec No.: 06847-42-05
 Client:

Date: 8/24/21
 Drilling Company: CASCADE
 Excavation Method:
 Boring Diameter: inches
 Elevation: 436.0 feet above MSL
 Geologist: T. REIST

Location:

| Depth (Feet) | Elevation MSL (Feet) | Box | Run | % Rec | Recovery | USCS Class | Lithology | Material Description |
|--------------|----------------------|-----|-----|-------|----------|------------|-----------|--|
| 101 | 335 | 9 | 5 | 100 | | CL | | |
| 102 | 334 | | | | | | | Dense, moist, gray, Silty, fine SANDSTONE. |
| 103 | 333 | 10 | 4 | 100 | | SM | | |
| 104 | 332 | | | | | | | -High angle fracture at 103.4 feet. -Grades into a clayey siltstone below 103.5 feet. |
| 105 | 331 | | | | | | | BORING TERMINATED AT 105 FEET Groundwater not encountered. |

CC1-1:9'-25'

Qt

11.5

16.5

21.5

25



CC1-2:26'-40'

26.5

30

36.5

40



CC1-3: 41' - 51.5'

41.5

46.5

44.5

45.5

51.5



CC1-4:51.6'-61.5'

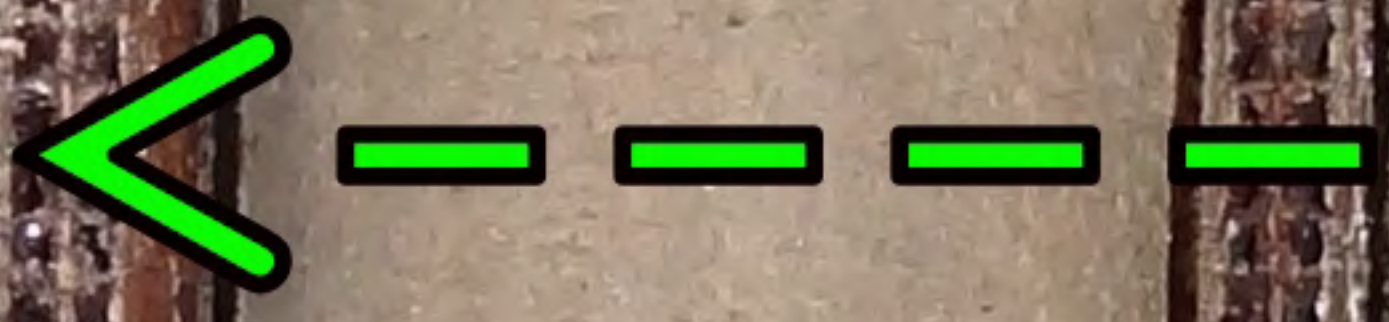
56.5

61.5

CC1-5: 61.6' - 71.5'

Qt

To



66.5

71.5

CC1-6:71.6'-76.5'

76.5

CC2-1:9'-21'

Qt

15

16

11

21



CC2-2:21'-31'



26

28

31

CC2-3:31'-41'



36

37

41

CC2-5:51'-60'



56

60

CC2-6: 60' - 69.5

Qt

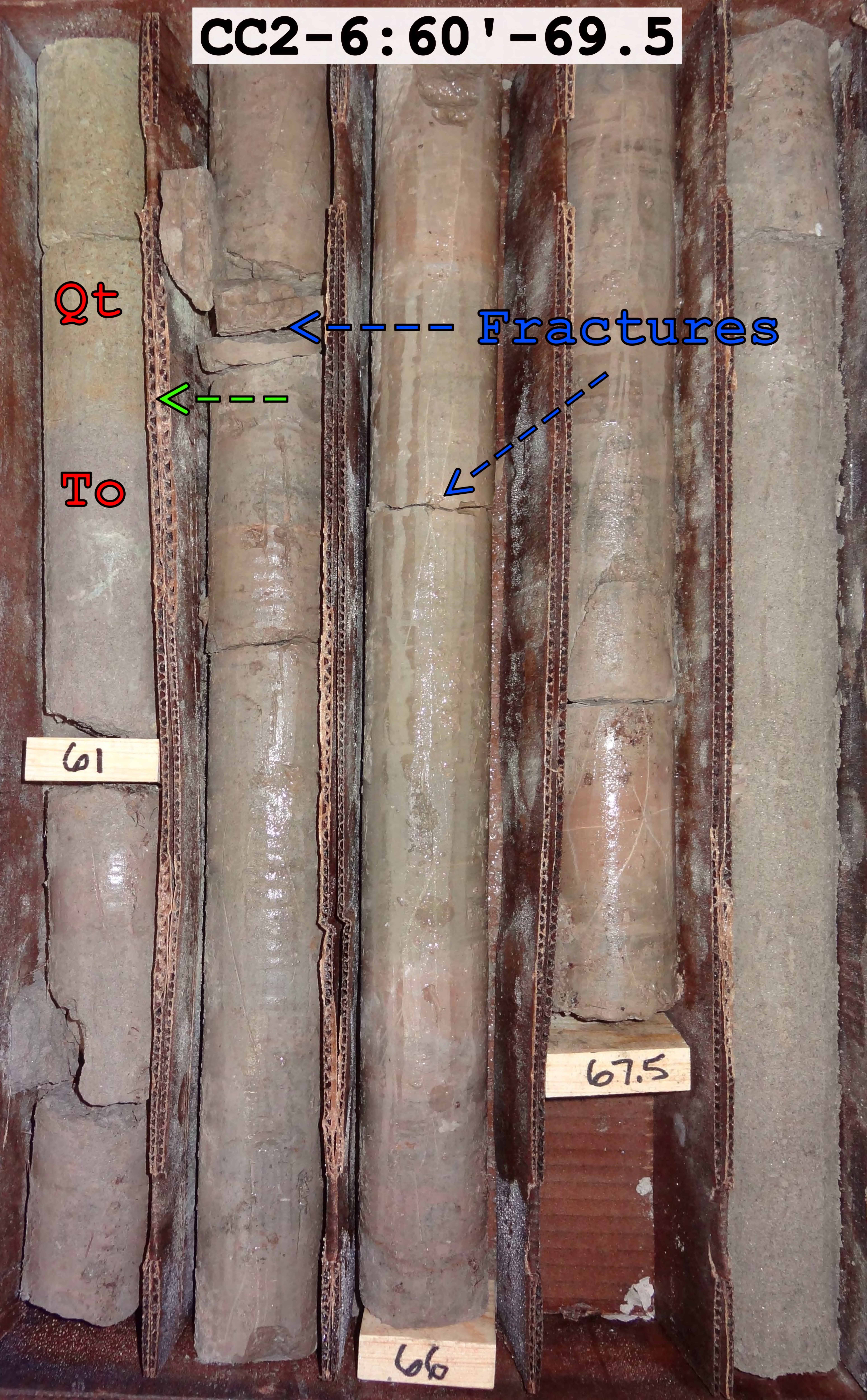
Fractures

To

61

67.5

66



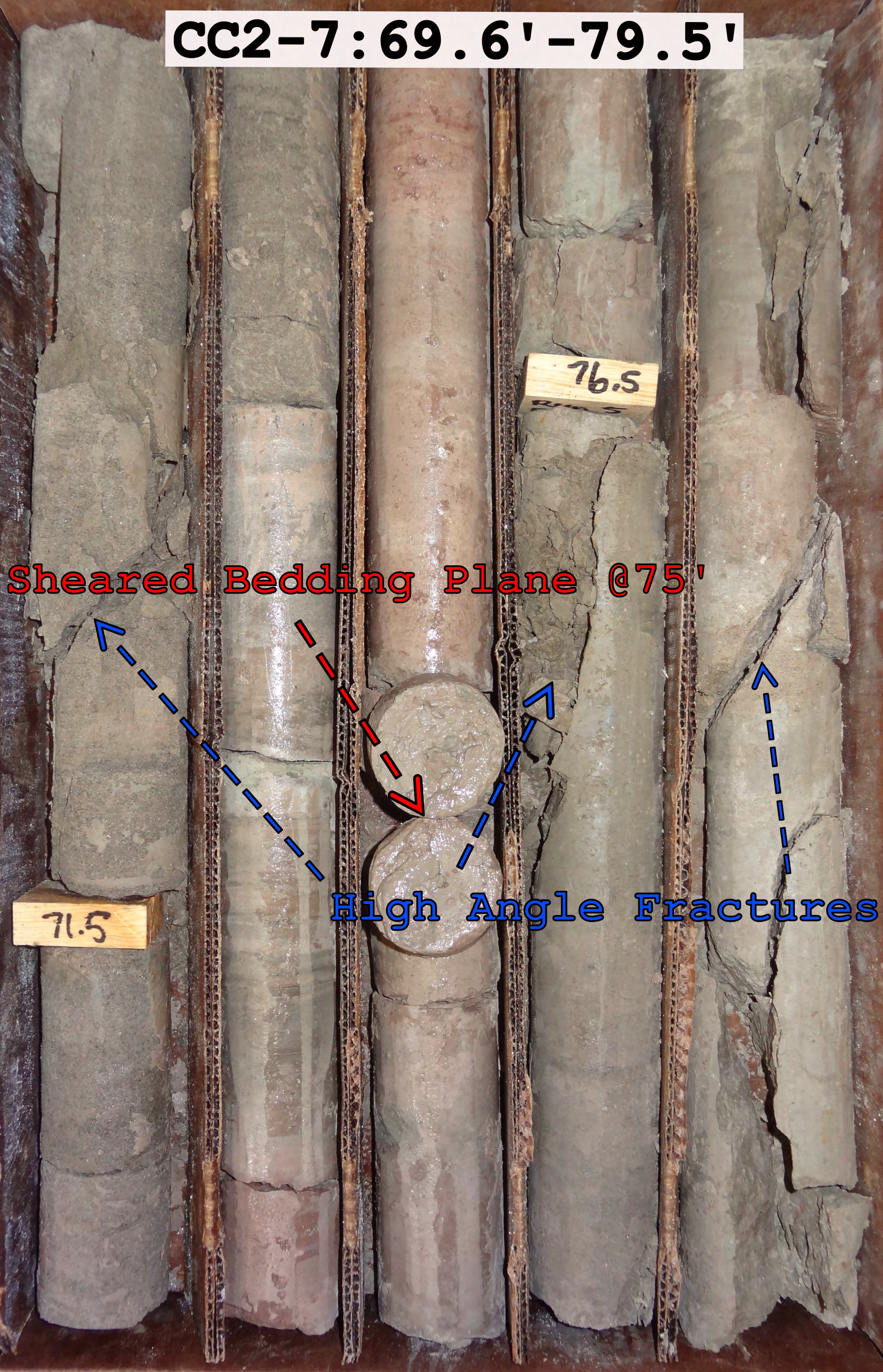
CC2-7: 69.6' - 79.5'

76.5

71.5

Sheared Bedding Plane @ 75'

High Angle Fractures



CC2-8

1/8"-thick Sheared Bedding Plane @75'



CC2-9

Sheared Bedding Plane @75'

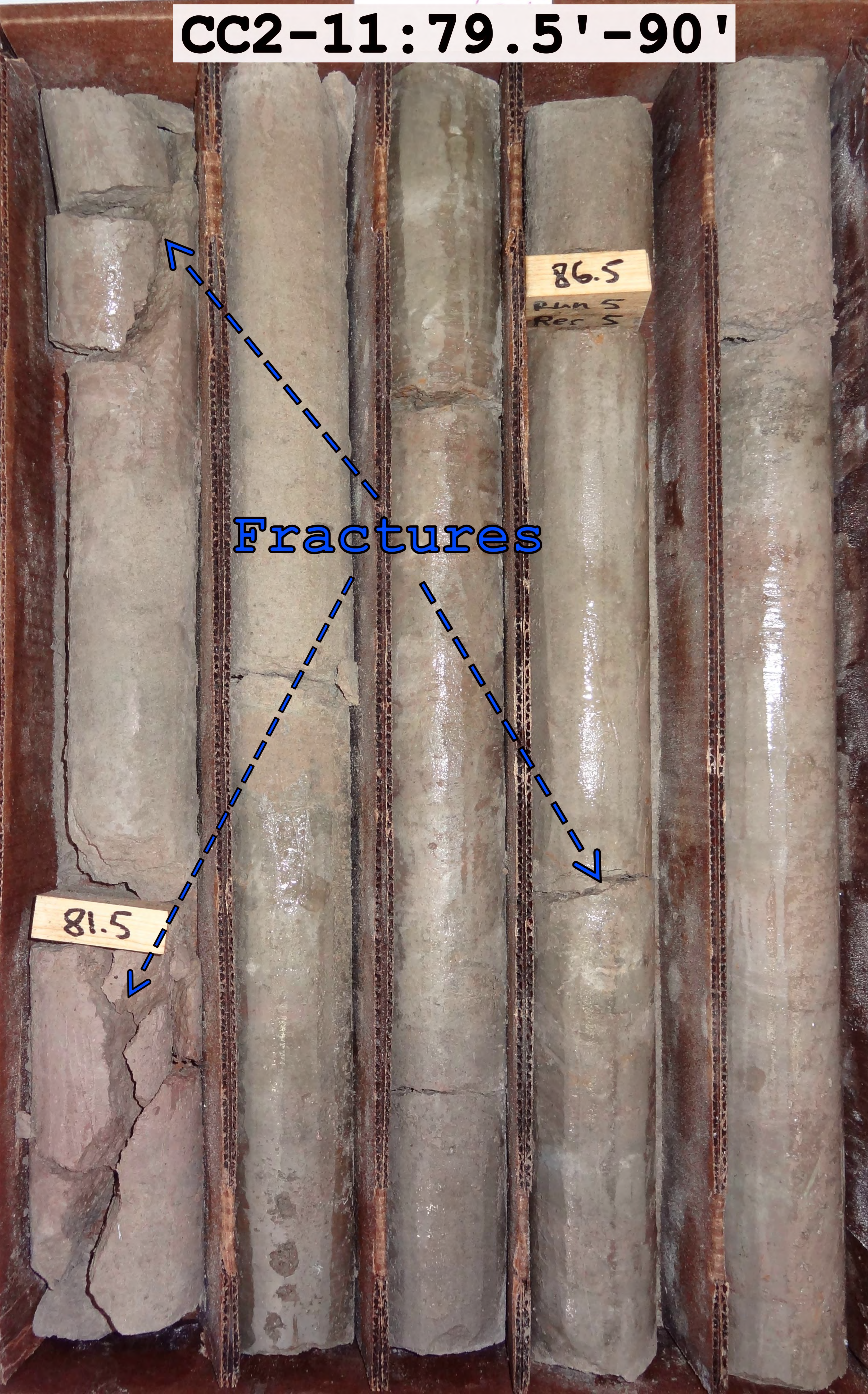


CC2-10

Sheared Bedding Plane @75'



CC2-11:79.5'-90'



86.5
Run 5
Res 5

Fractures

81.5

CC2-12:90'-100'

Fractured

91.5

100

CC3-1:16.5'-30'

11.5

16.5

Run 5
Dec 0

Qt

26.5

21.5



CC3-2:30-45.5

30.5
31.5

37.5

41.5

32.5

42.5

34

36.5

40

45.5



CC3-3:45.6'-56.5'

46.5

51.5

56.5



CC3-4:56.6'-66.5



61.5

Qt



To

66.5

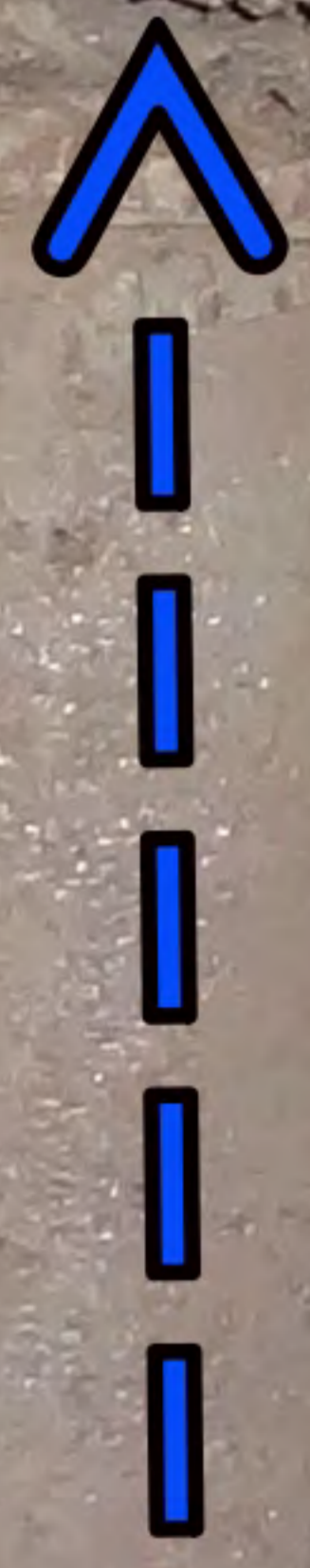
CC3-5: 66.6' - 76.5'

71.5

76.5

High Angle Fracture

Fracture



CC3-6:76.6'-86.5

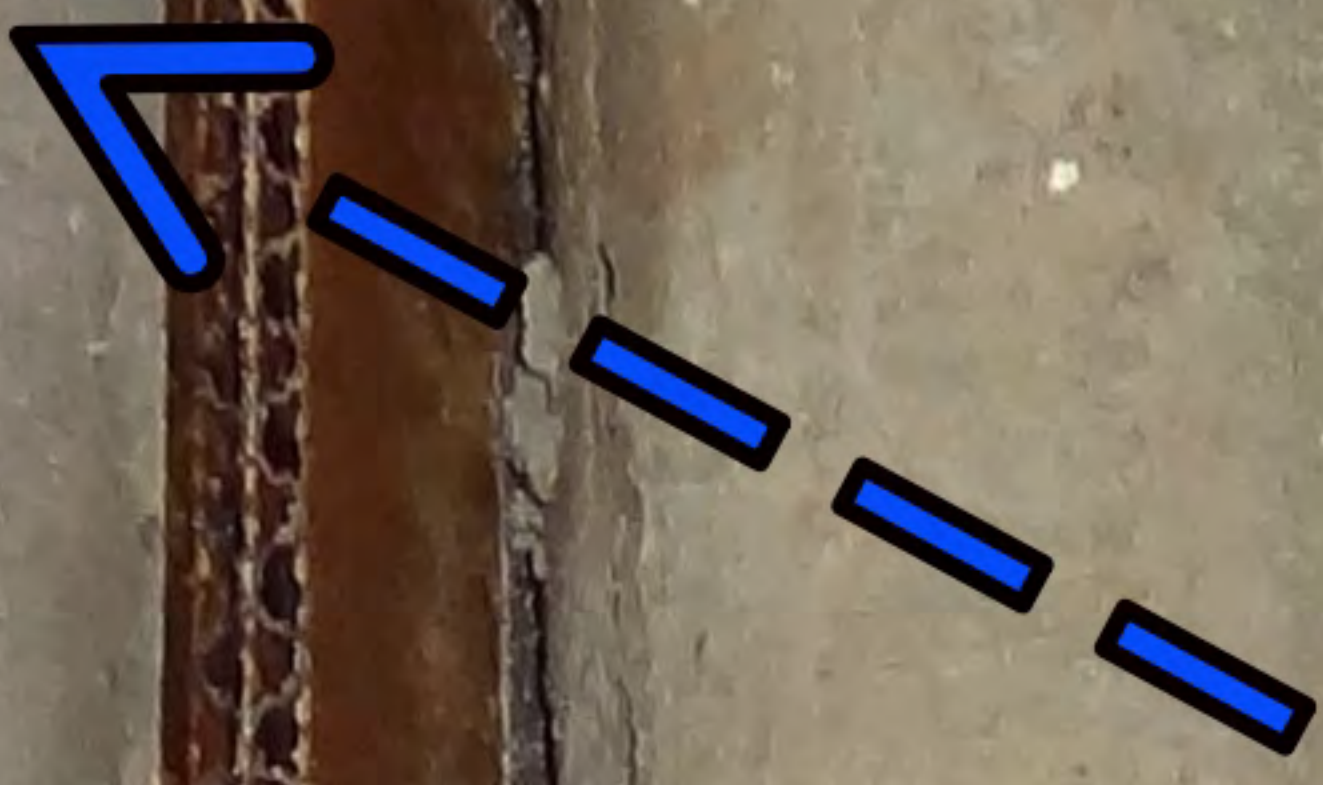
Fractured

81.5

Fractured

86.5

CC3-7:86.6'-91.5'

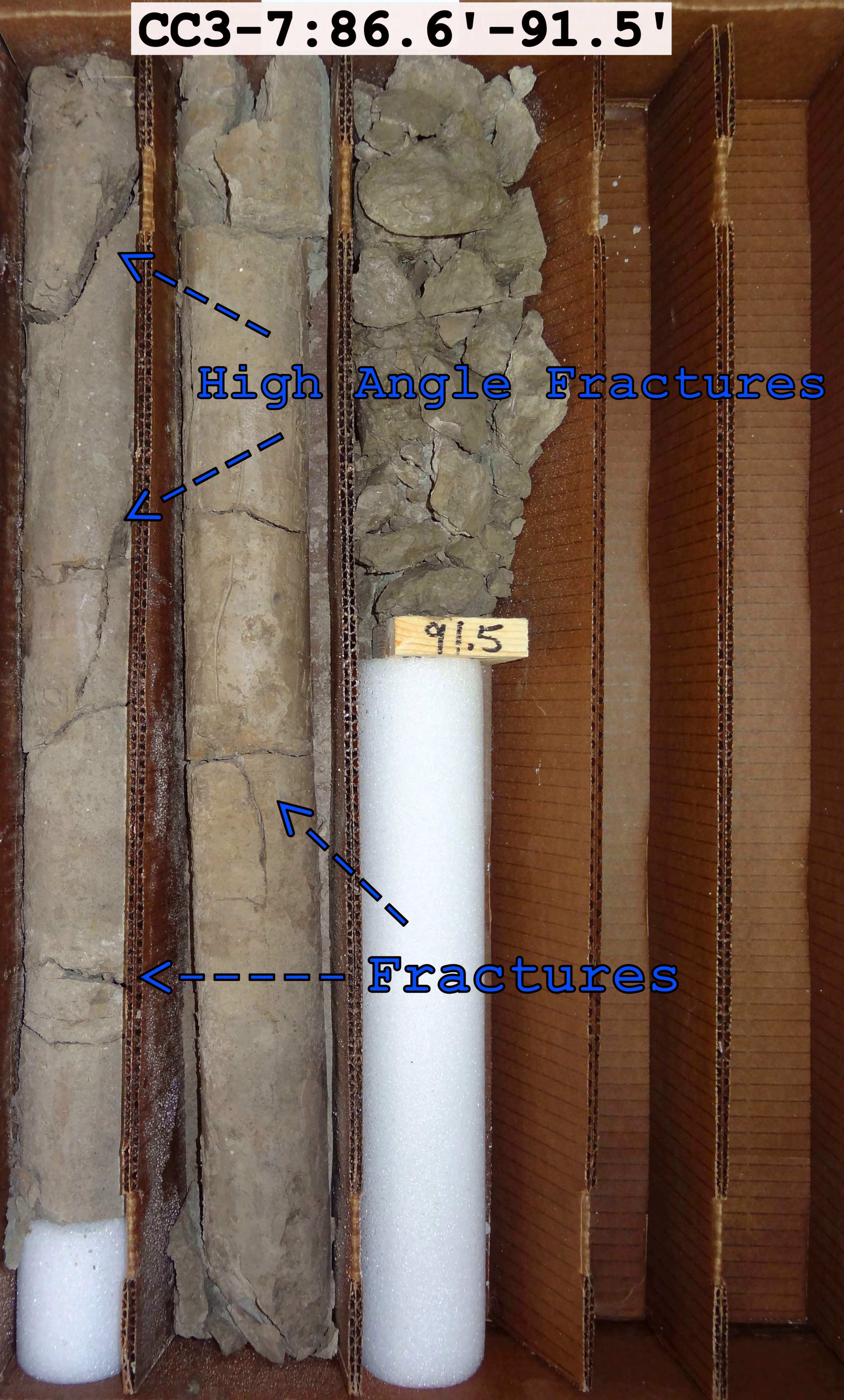


High Angle Fractures

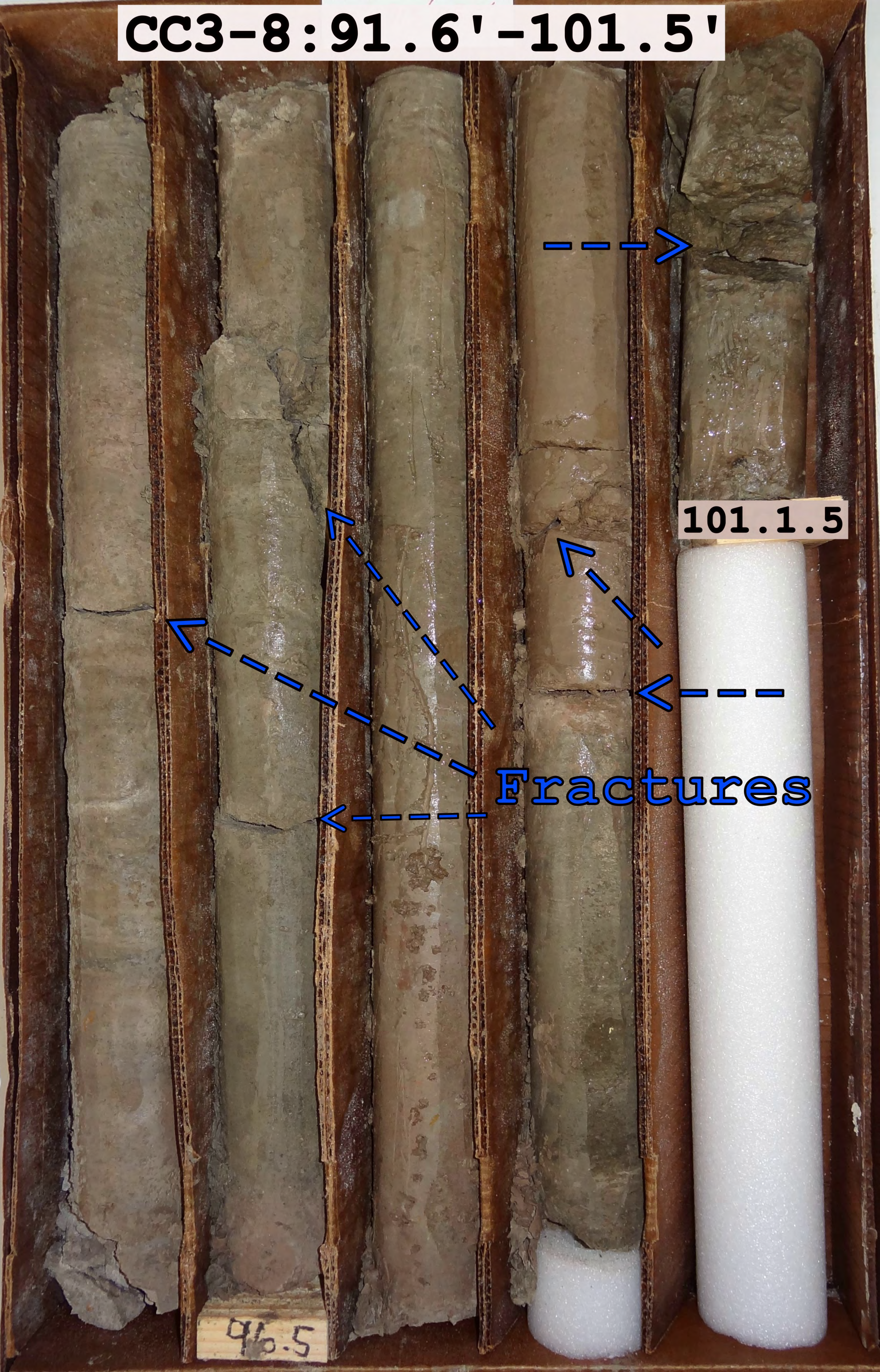


Fractures

91.5



CC3-8:91.6'-101.5'



101.1.5

Fractures

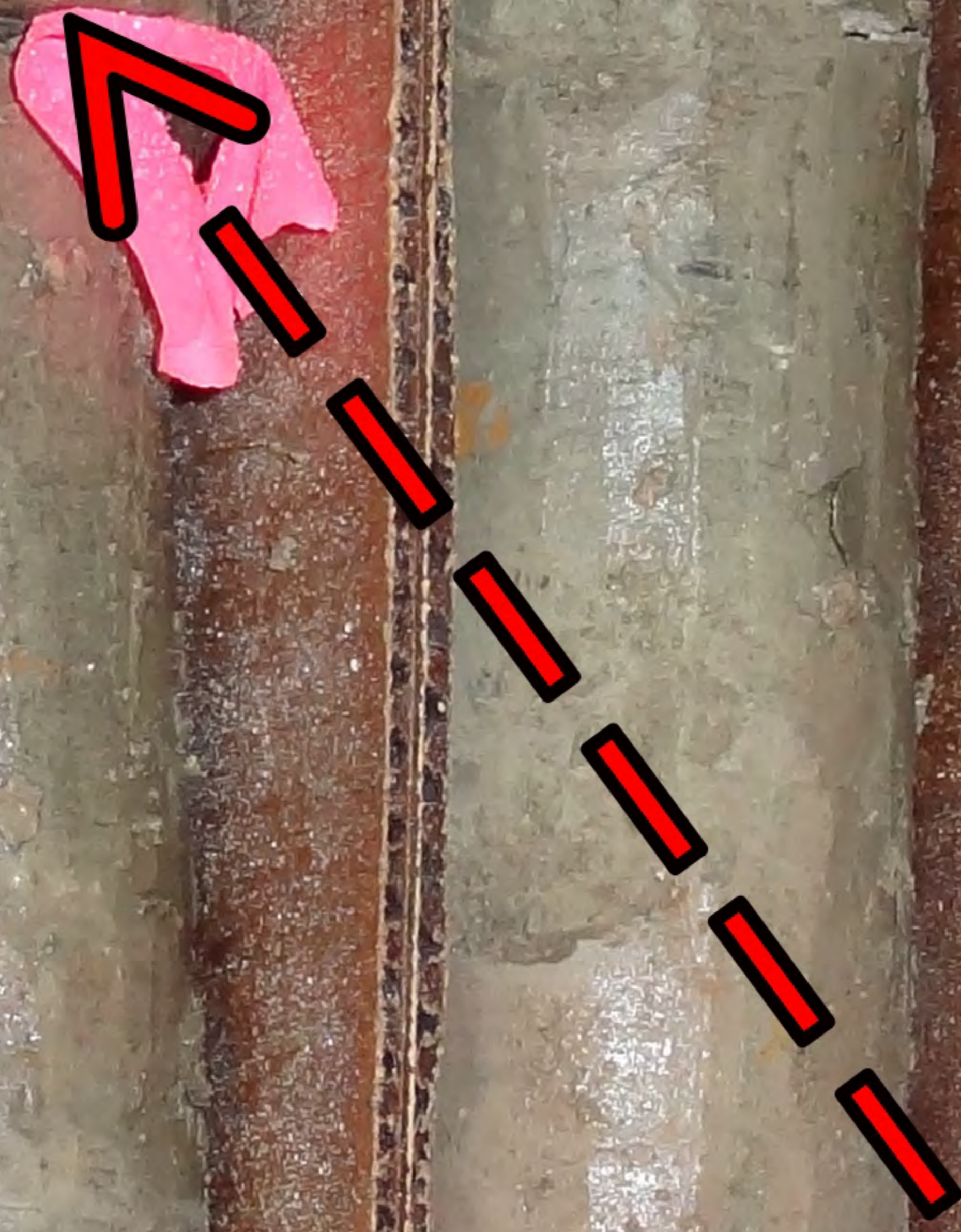
96.5

CC3-9:101.6'-110.5'

Multiple Bedding Plane Shears



104



Sheared Bedding Planes



107

106.5



CC3-10

Sheared Bedding Plane @107'

106'



107

CC3-11

Multiple Sheared Bedding Planes @102'



CC3-12

Multiple Sheared Bedding Planes @102'



CC3-13

Sheared Bedding Plane @ 104'



← Bedding Plane Shear

104

CC3-14



Remolded Clay @ 104'



CC3-15

Remolded Clay @ 104'



CC3-16

Remolded Clay @ 104'



CC3-17

Remolded Clay @104'



CC3-18:110.6'-121.5

115.5

118.5

116.5

121.5



Bedding Plane Shears

Fractured

CC3-19



Sheared Bedding Planes

CC3-20

Remolded Clay Gouge @111.8'



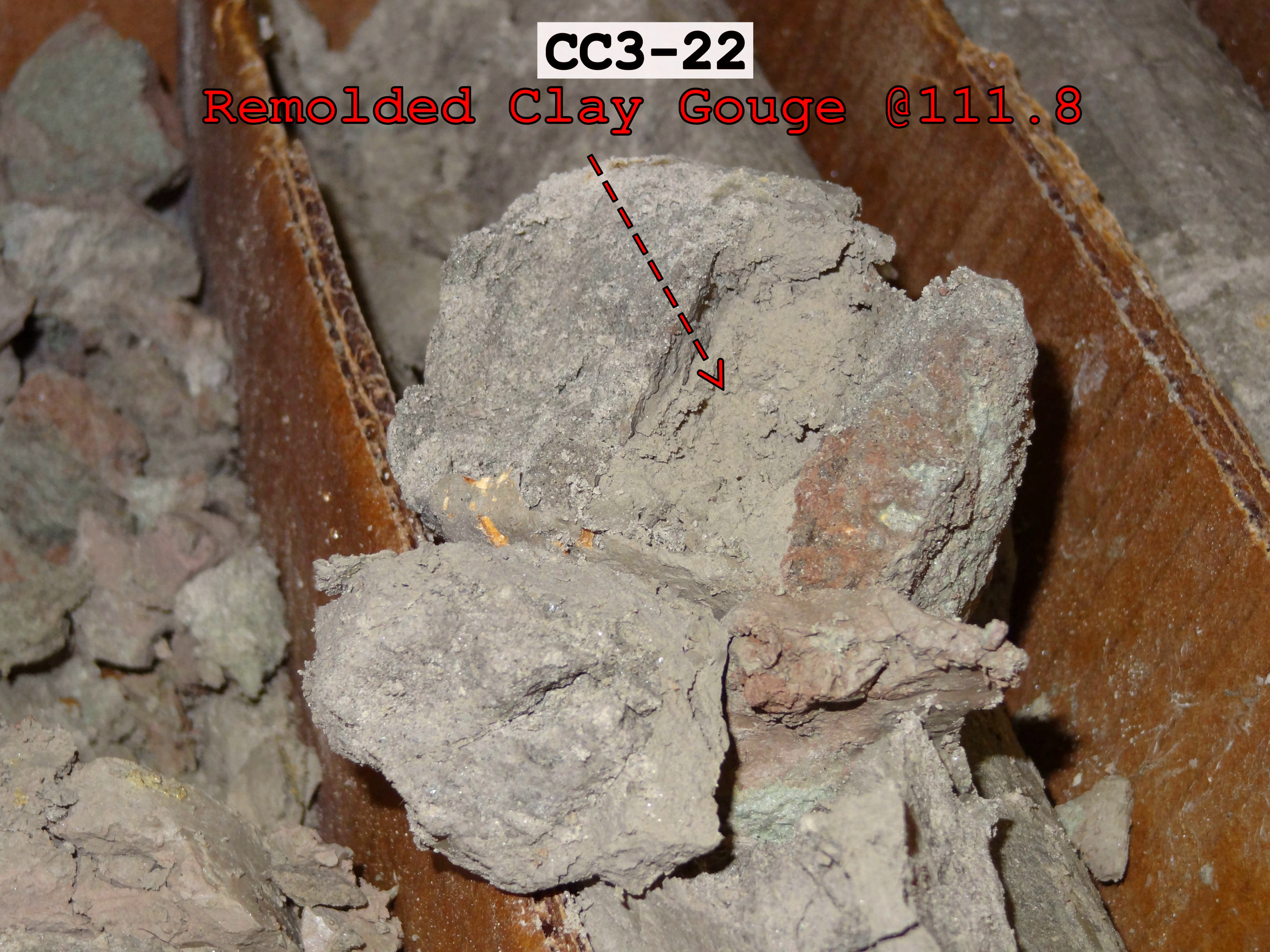
CC3-21

Remolded Clay Gouge @111.8'

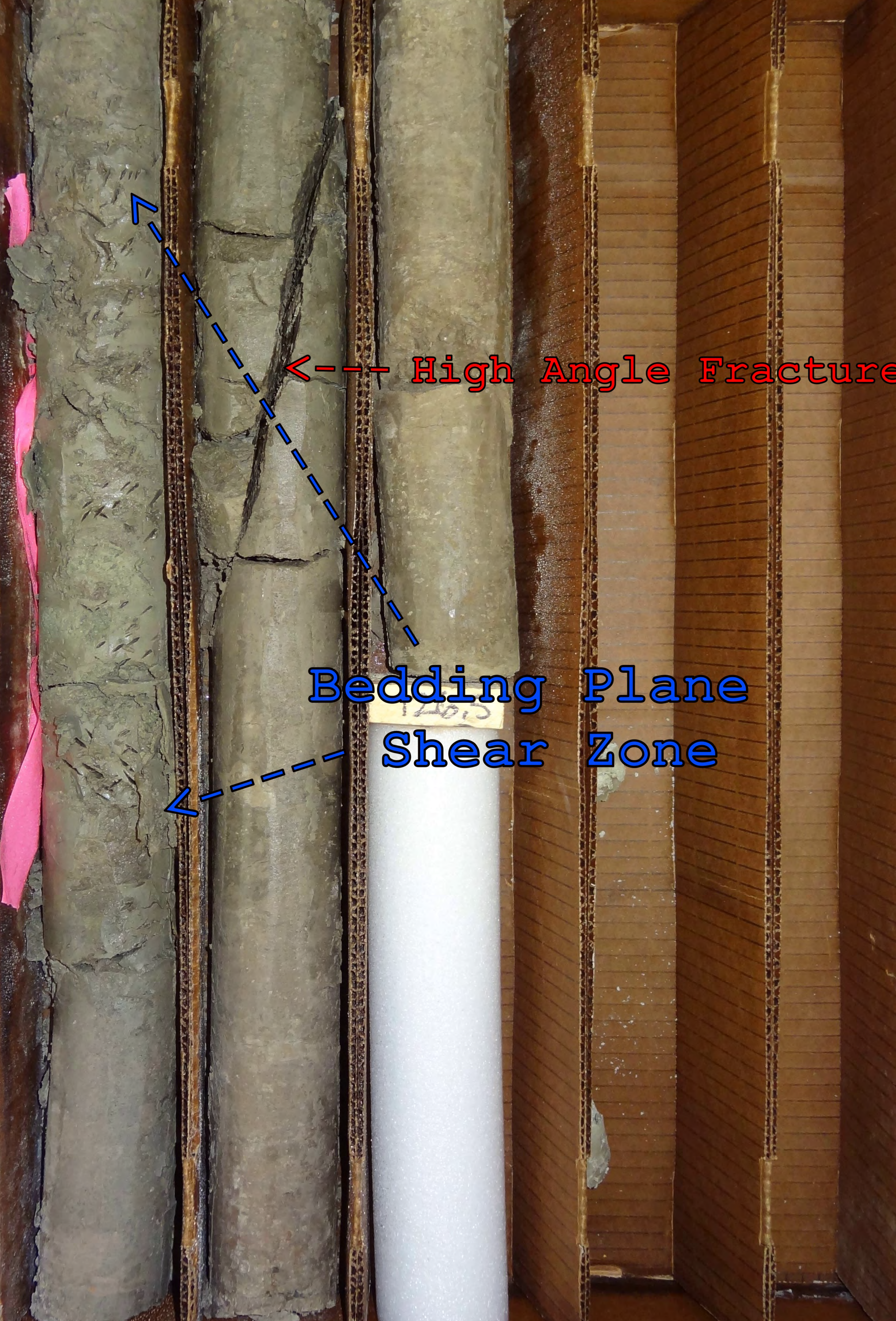


CC3-22

Remolded Clay Gouge @111.8



CC3-23:121.6'-126.5'



High Angle Fracture

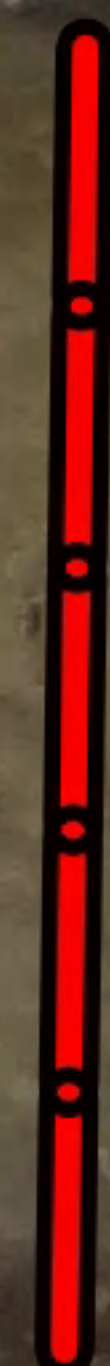
Bedding Plane Shear Zone

CC3-24

Bedding Plane Shear Zone 122'-123'

126.5

Shear Zone



CC4-1:4'-21'

Qt

6

11

13.5

18.5

21

9.5

16



CC4-2:21'-31'



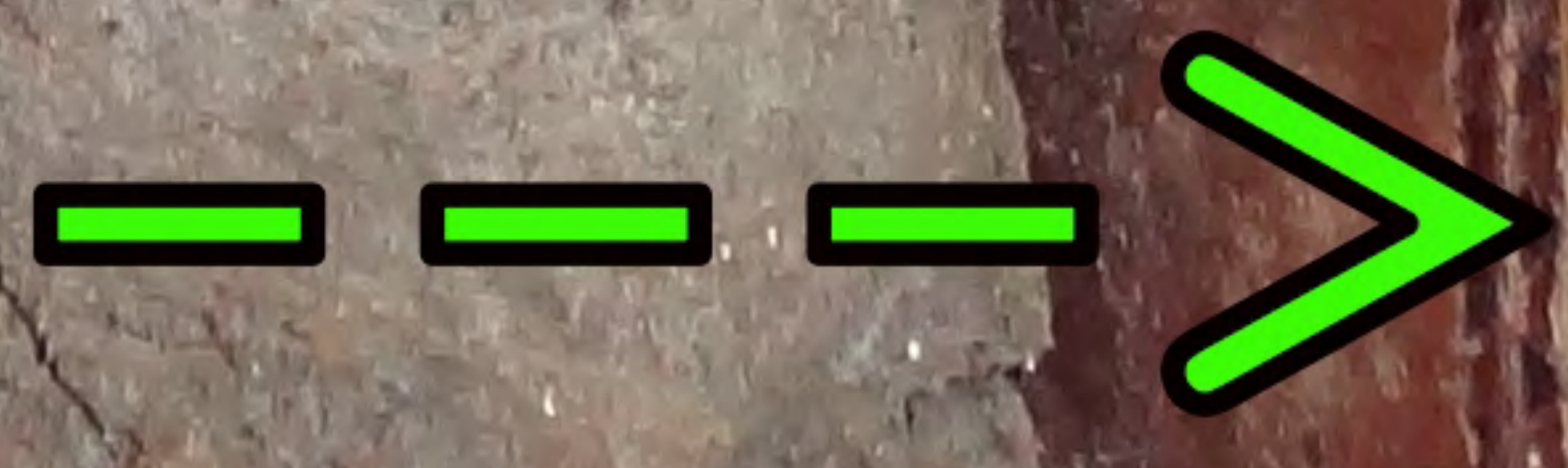
26

31

CC4-3:31'-41'

36

Qt



To

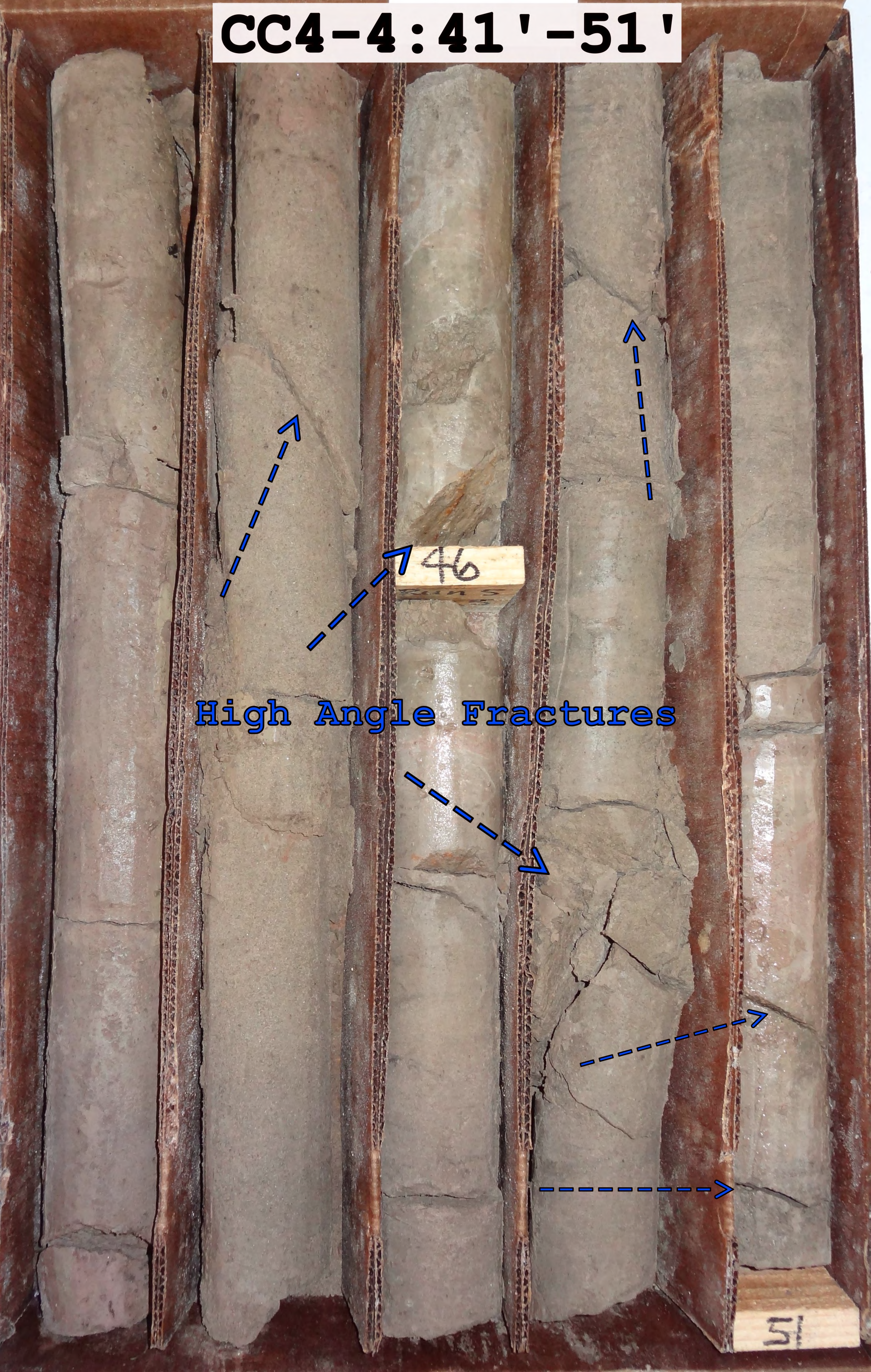
41

CC4-4:41'-51'

High Angle Fractures

46

51



CC4-5:51'-56'

56

Fractured



CC4-6:56'-66'



Fractured

66

CC4-7: 66'-76'

Fractured

71

76

CC4-8:76'-86'

Fractured

86

81

CC4-9:86'-95'



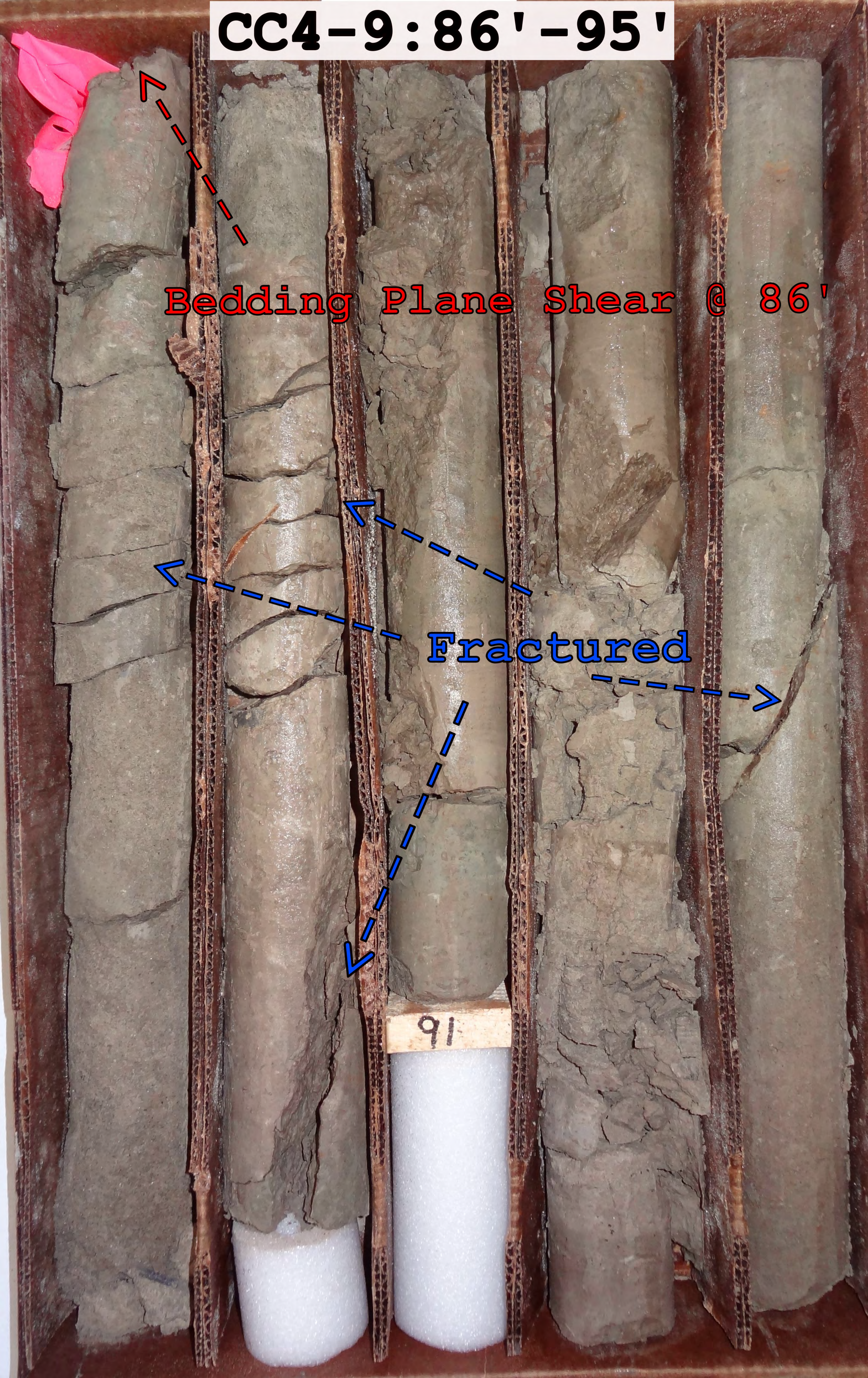
Bedding Plane Shear @ 86'



Fractured



91



CC4-10

Sheared Clay



CC4-87-95

Bedding Plane Shear @ 86'



CC4-11

Remolded Clay

Bedding Plane Shear @ 86'



CC4-12:95'-105'

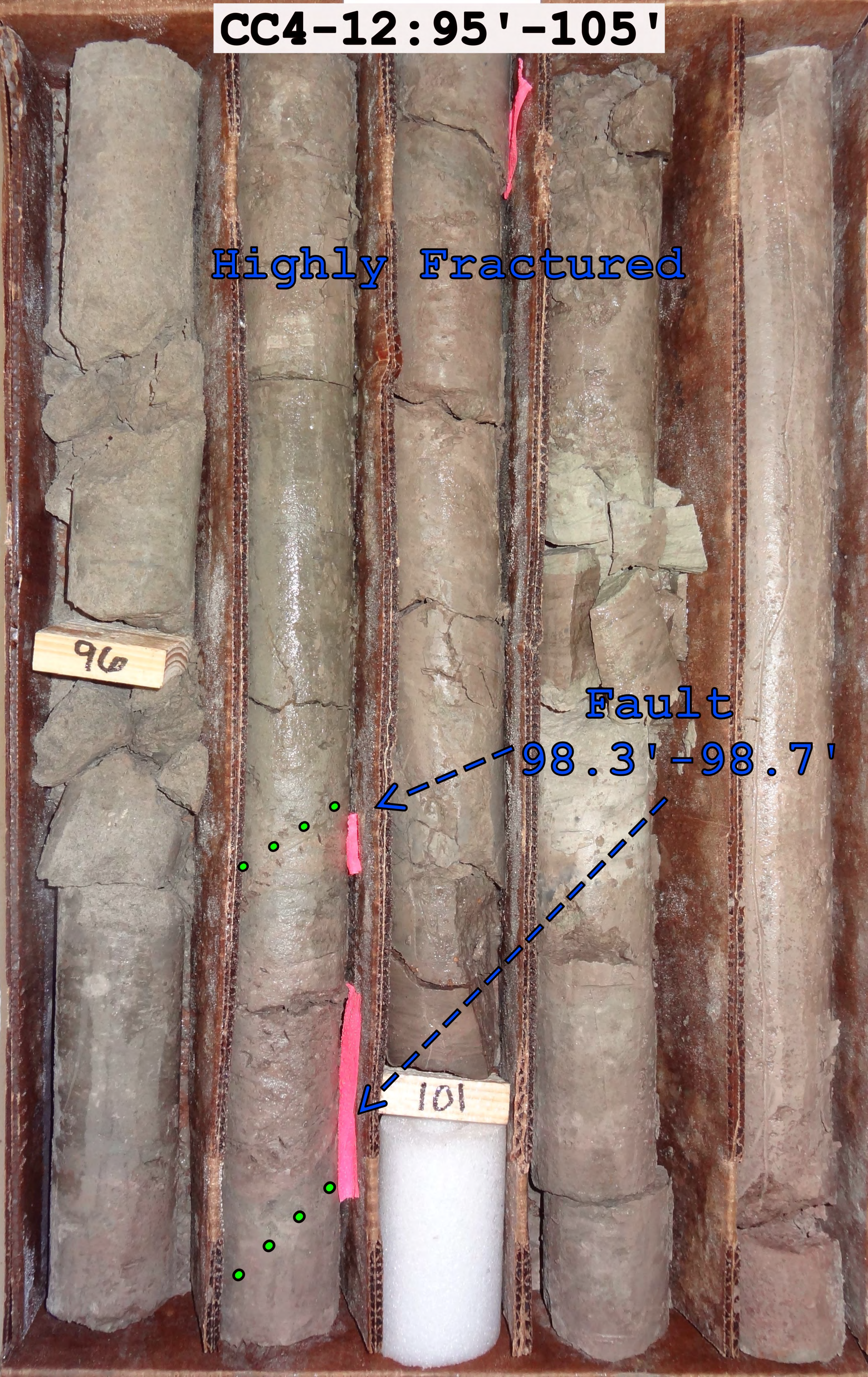
Highly Fractured

96

Fault

98.3'-98.7'

101



CC4-13

Fault 98.3'-98.7'

CC4:96-105



CC4-14

Fault 98.3'-98.7'

CC4:96-105



C4-15



Fault 98.3'-98.7'

CC4-16

Fault 98.3'-98.7'



CC4-17



Fault 98.3'-98.7'

CC4-18



Fault 98.3'-98.7'

CC4-19

Fault 98.3'-98.7'



CC4-20

Fault 98.3'-98.7'



CC4-21

Fault 98.3' - 98.7'

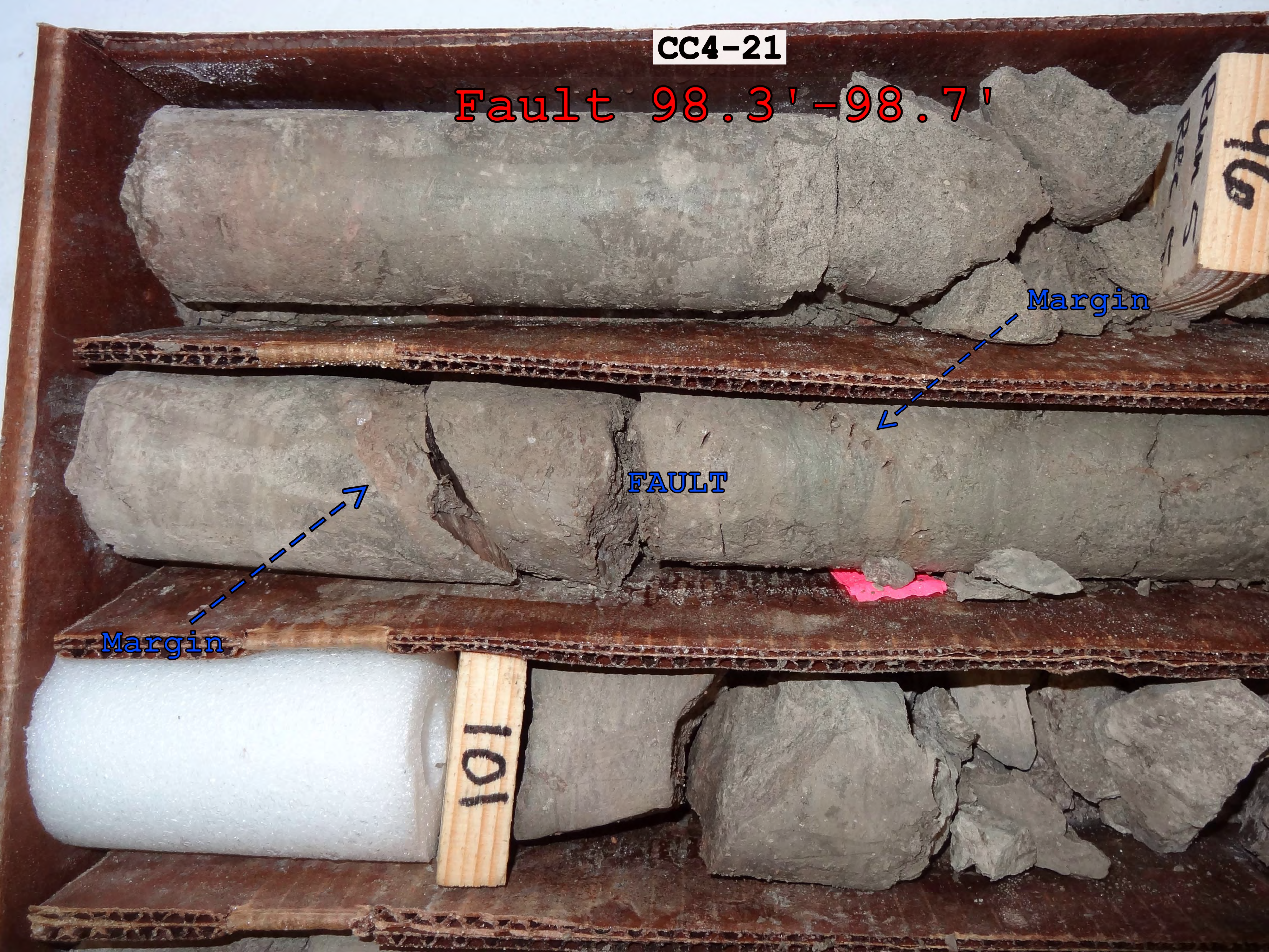
Margin

FAULT

Margin

101

98
98.3'
98.7'



CC4-22

Fault 98.3' - 98.7'

Margin



Margin



CC4-23

Fault 98.3' - 98.7'

Fault Margin



Thin slightly Remolded Clay Planes



CC4-24

Fault 98.3' - 98.7'

96

Margin

Margin

10



CC4-25

Fault 98.3' - 98.7'

Clay Gouge



CC4-26

Fault 98.3' - 98.7'

Clay Gouge



CC4-27

Fault 98.3'-98.7'

Apparent Slickensides



CC4-28

Fault 98.3' - 98.7'

Apparent Slickensides



Fault 98.3' - 98.7'

CC4-29

Apparent Slickensides



CC4-30

Fault 98.3' - 98.7'

Clay Gouge

Margin



CC4-31

Fault 98.3' - 98.7'

Clay Gouge

Margin



CC4-32

Fault 98.3' - 98.7'

Clay Gouge



Margin

