

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, KV, SM, SB</u>	GPS Waypoint: <u>OC-1-BR</u>	
GPS System/Unit #: <u>JT-2</u>	Latitude: <u>N35°53'19.0"</u>	
	Longitude: <u>W114°54'56.3"</u>	
GPS coordinates should be collected for the center of each sample.		

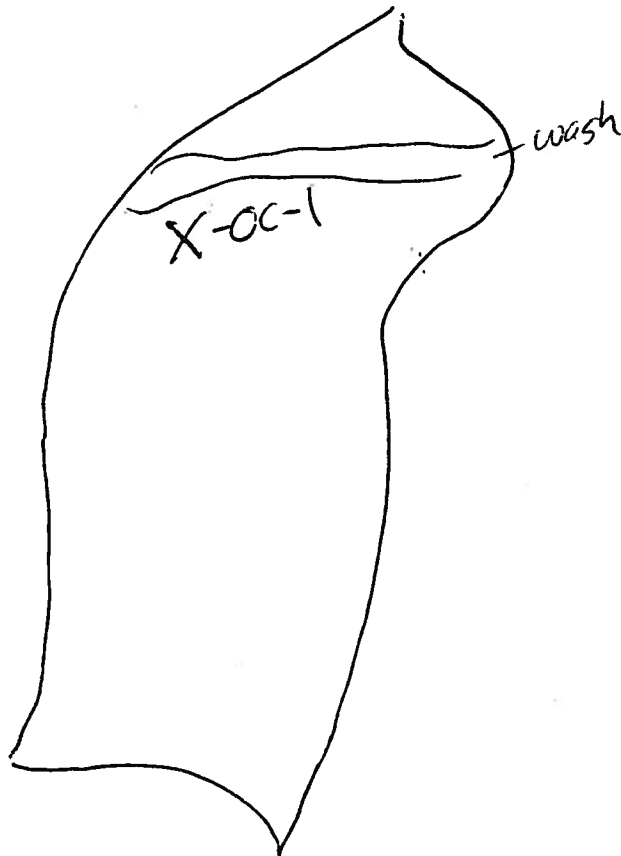
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(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00001	NA	31	Outcrop	16	Fine grained Volcanics	NA	<10%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-####	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR- 000 1	Grid/ID Number: 31	GPS Waypoint: OC-1-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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Date: 6/5/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, SM, KV, SB</u>	GPS Waypoint: <u>OC-2-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N 35° 58' 17.6"</u>	
	Longitude: <u>W 114° 54' 56.7"</u>	
GPS coordinates should be collected for the center of each sample.		

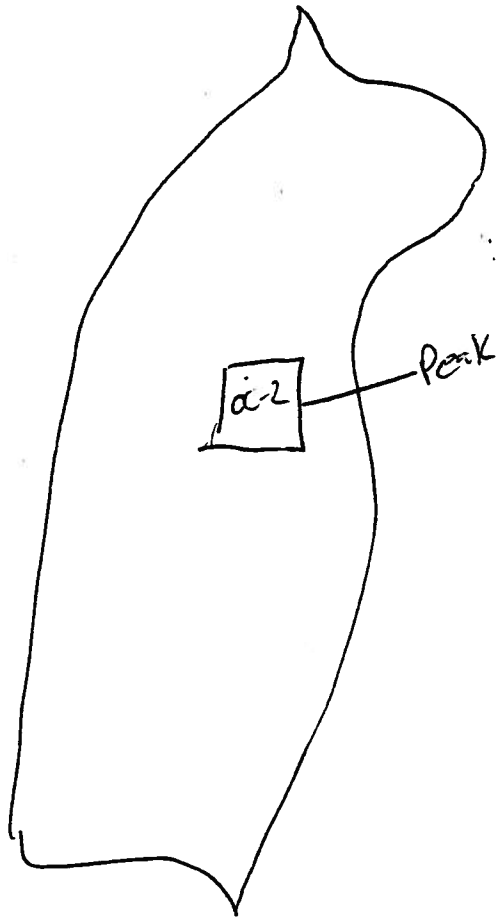
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(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00002	NA	31	Outcrop	16	Volcanic RF Quartz Monzonite	NA (check)	< 10%	25-50%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR- 000 02	Grid/ID Number: 31	GPS Waypoint: OC-2-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



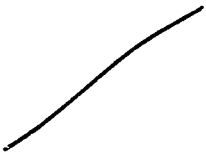
BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

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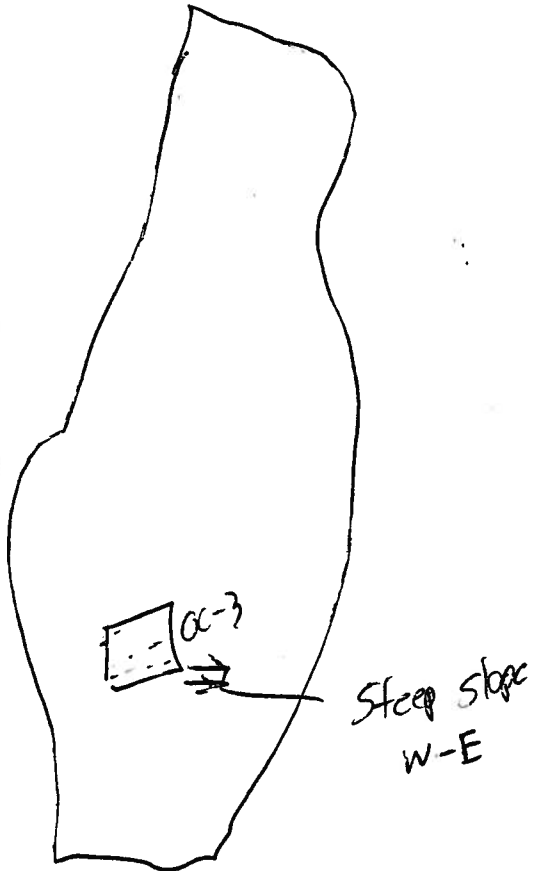
Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, KV, SM</u>	GPS Waypoint: <u>CC-3-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N35° 58' 16.7"</u>	
	Longitude: <u>W114° 54' 54.3"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00003		31	outcrop	16	Quartz Monzonite	NA (Rock) Sandy loam below	< 10%	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-45 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-####	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-00003	Grid/ID Number: 31	GPS Waypoint: OC-3-BR
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Date: 6/5/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, SM, KV</u>	GPS Waypoint: <u>OC-4-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N35°57'57.6"</u>	
	Longitude: <u>W114°54'37.7"</u>	
GPS coordinates should be collected for the center of each sample.		

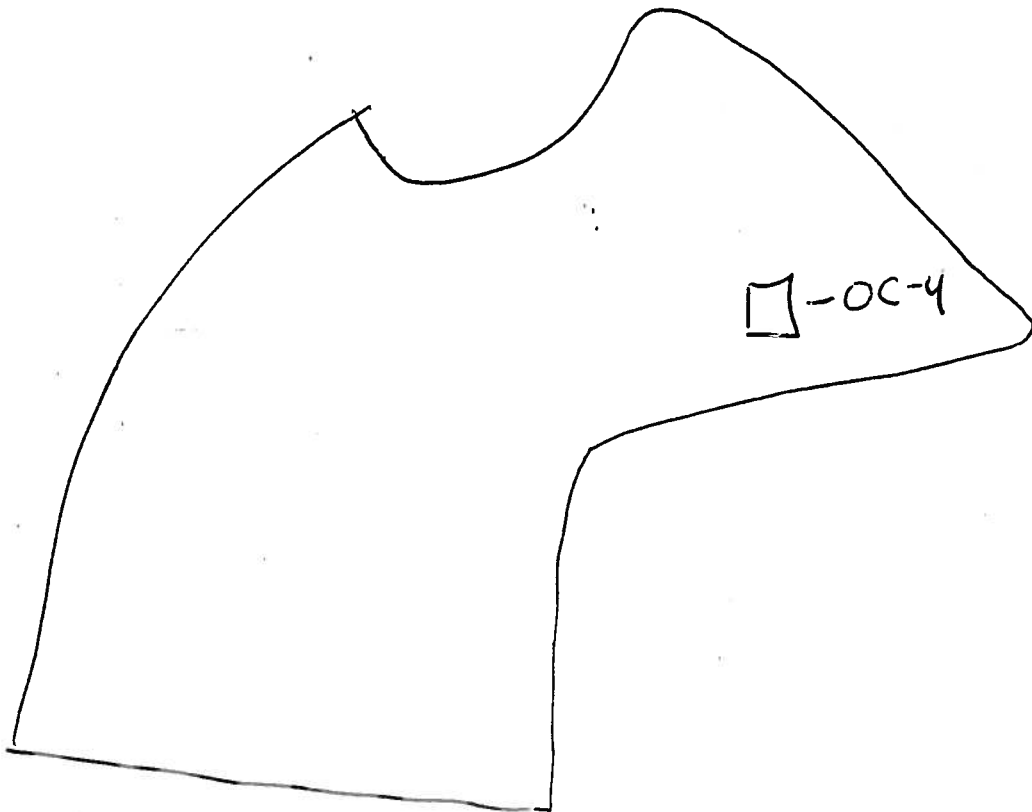
(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00004	/	44	Outcrop	16	Quartz monzonite	NA (Rock) Sandy clay	210%	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

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Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR- OC4	Grid/ID Number: OC4-BR RF 44	GPS Waypoint: OC-4-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Tech 2</u>	Log Book No:	
Sample Team Initials: <u>RF, KV, SM</u>	GPS Waypoint: <u>OC-5-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N35°57'54.7"</u>	
	Longitude: <u>W114°54'40.1"</u>	
GPS coordinates should be collected for the center of each sample.		

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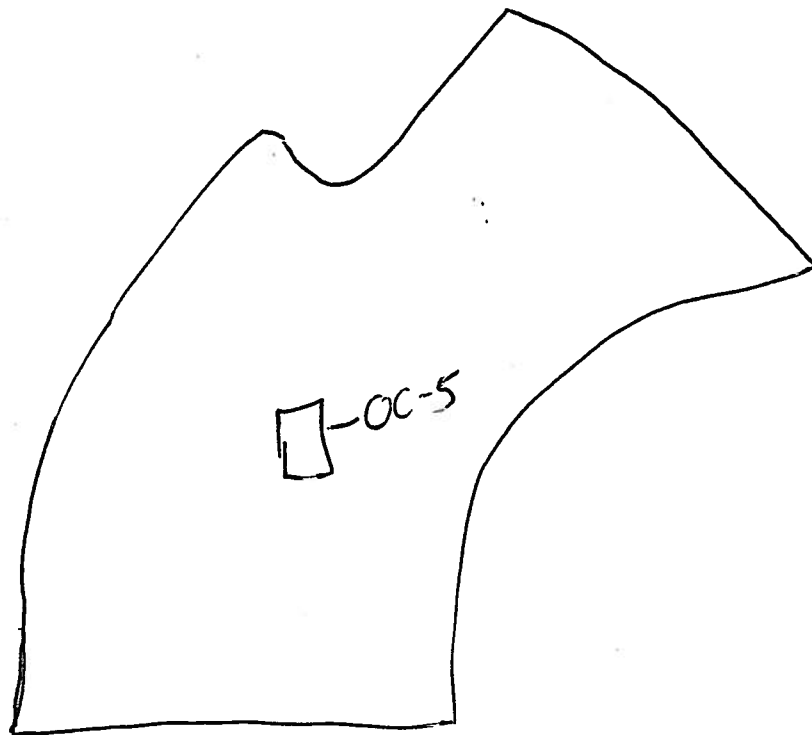
(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00005	/	44	Outcrop	16	Quartz Monzonite	NA (Rock)	< 10%	10-25%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 8 inches? <10% 10-25% 25-50% >50%

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Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-0005	Grid/ID Number: 44	GPS Waypoint: OC-5-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, SM, KV</u>	GPS Waypoint: <u>CC-6-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N35°57'56.7"</u>	
	Longitude: <u>W114°54'36.8"</u>	
GPS coordinates should be collected for the center of each sample.		

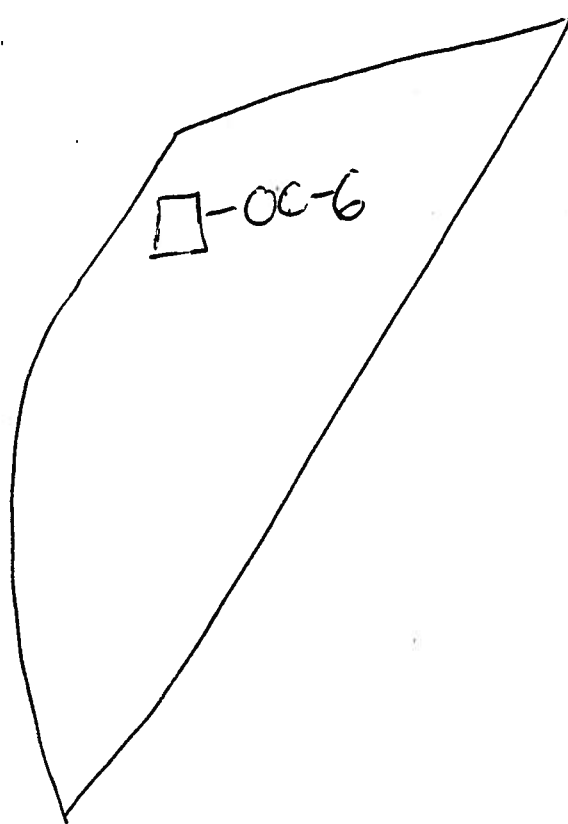
(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00006	/		Outcrop	16	Quartz Monzonite	Rock Sandy below	<10%	<10%
NOTES: To be used to complete details above.								
1) Surface Soil (0-6 inch)		BC-XX-####	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

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Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-00006	Grid/ID Number: 47	GPS Waypoint: OC-6-BR
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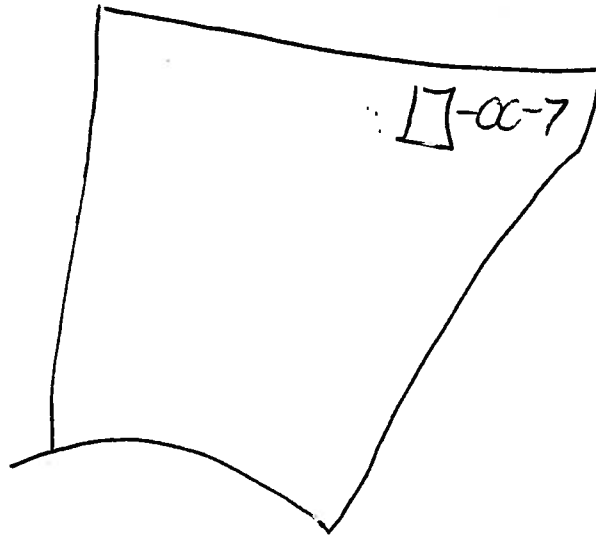
Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR- 0000 7	Grid/ID Number: 48	GPS Waypoint: CC-7-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

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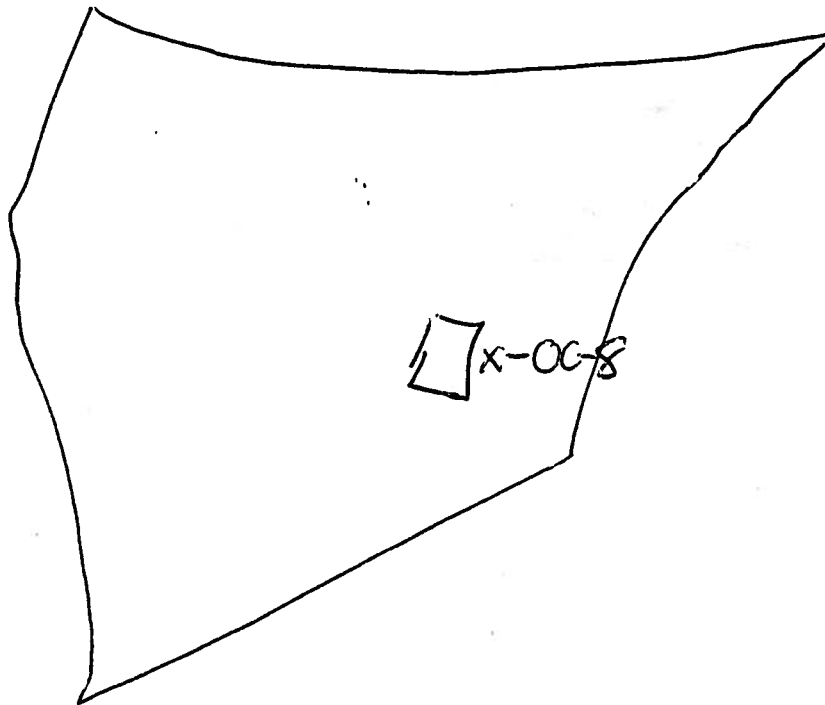
Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, KV, SM</u>	GPS Waypoint: <u>OC-8-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N 35° 57' 47.3"</u>	
	Longitude: <u>W 114° 54' 40.0"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00008	/	50	outcrop	16	Quartz Monzonite	Rock (NA)	216%	410%
NOTES: To be used to complete details above.								
1) Surface Soil (0-8 inch) 2) Subsurface Test Pits (0-10 ft.) 3) Subsurface Auger Sample (0-48 ft.) 4) Outcrop Geologic Sample 5) Rock Core Drill Sample 6) Discrete "Target" Sample		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-00005	Grid/ID Number: 50	GPS Waypoint: OC-8-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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Soil/Bedrock Sampling and ABS

Date: 6/5/14

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Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, SA, SM, KV</u>	GPS Waypoint: <u>CC-9-BR</u>	
GPS System/Unit #: <u>TT-2</u>	Latitude: <u>N 35° 57' 36.2"</u>	
	Longitude: <u>W 114° 54' 35.5"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #s	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00009		53	Outcrop	16	Quartz monzonite	Rak	L 0	L 0 6

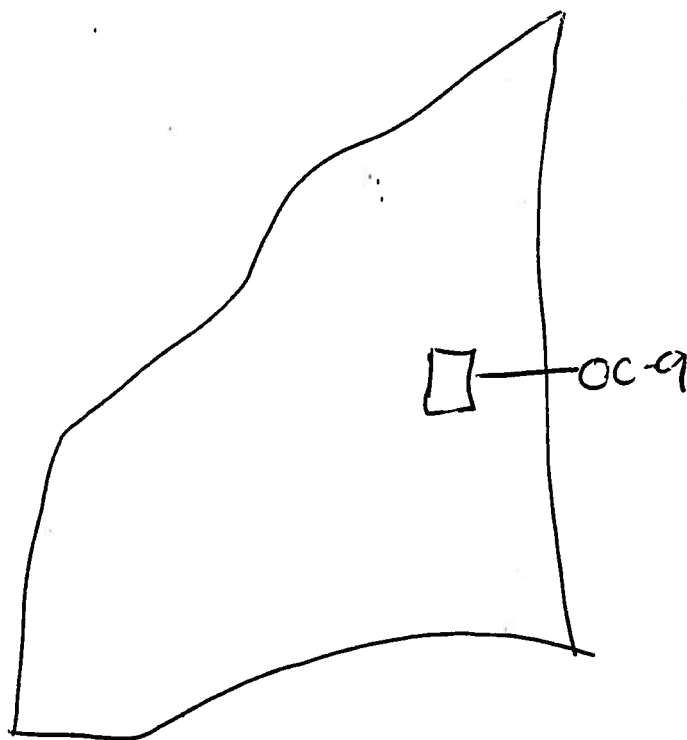
NOTES: To be used to complete details above.

1) Surface Soil (0-8 inch)		BC-XX-###	Hand Backhoe HSA Core Drill Outcrop		New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation? <10% 10-25% 25-50% >50%	Proportion of stones greater than 6 inches? <10% 10-25% 25-50% >50%
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BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-00009 OC	Grid/ID Number: 53	GPS Waypoint: OC-9-BR
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)



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Tetra Tech, Inc.
Soil/Bedrock Sampling and ABS

Date: 6/5/14

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Associated ABS Testing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Collected By: <u>Team 2</u>	Log Book No: <u>2</u>	
Sample Team Initials: <u>RF, SH, SM, KV</u>	GPS Waypoint: <u>CC-10-BR</u>	
GPS System/Unit #: <u>JT-2</u>	Latitude: <u>N35°57'31.4"</u>	
	Longitude: <u>W114°54'35.0"</u>	
GPS coordinates should be collected for the center of each sample.		

(1) Soil/Bedrock Sample #	Associated ABS Air Sample #	Grid ID/ Number	Sample Method	Number of Aliquots	(2) Parent Material	(3) Soil Texture	(4) Vegetation Cover	(4) Stoniness
BC-BR-00010	/	55	outcrop	16	Quartz Monzonite	Rock	410%	410%

NOTES: To be used to complete details above.

1) Surface Soil (0-8 inch)	2) Subsurface Test Pits (0-10 ft.)	3) Subsurface Auger Sample (0-48 ft.)	4) Outcrop Geologic Sample	5) Rock Core Drill Sample	6) Discrete "Target" Sample	BC-XX-####	Hand Backhoe HSA Core Drill Outcrop	New Alluvium Old Alluvium Qtz Monzonite Volcanic Breccia Other (describe)	Sand Loamy Sand Sandy Loam Loam Other (describe)	Proportion of grid covered w/ vegetation?	Proportion of stones greater than 6 inches?
										<10% 10-25% 25-50% >50%	<10% 10-25% 25-50% >50%

BOULDER CITY BYPASS SOIL/BEDROCK FIELD SAMPLE DATA SHEET

Date: 6/5/14	Soil/Bedrock Sample Number: BC-BR-60010	Grid/ID Number: 55	GPS Waypoint: OC-10-BB
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Site Drawing/Test Pit Log: (Please note % slope of sample area and major erosion features)

