APPENDIX A:
FHA DELINEATION MAP SHEETS

T22S R21E

T22S R22E

T23S R21E

T23S R22E

T24S R21E

T24S R22E

AZGS Site 6

AZGS Site 5

AZGS Site 3

AZGS Site 4

AZGS Site 2

AZGS Site 1

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
157.0	156.8	Step 2	2,084.11
156.8	155.6	Step 3	6,210.68
155.6	154.5	Step 1	5,532.25
154.5	153.6	Step 2	4,529.64
153.6	151.4	Step 3	9,469.13
151.4	150.6	Step 1	1,241.87
150.6	150.5	Step 2	1,381.57
150.5	150.3	Step 2	1,406.79
150.3	149.3	Step 3	4,098.58
149.3	146.1	Step 2	15,378.95
146.1	145.2	Step 2	2,934.20
145.2	143.5	Step 2	4,471.80
143.5	142.6	Step 2	2,807.60
Total Length (ft)			61,547.17

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
156.1	156.1	Step 2	217.31
156.1	155.9	Step 2	2,956.56
155.9	154.6	Step 2	5,649.77
154.6	154.6	Step 2	1,253.66
154.6	153.8	Step 2	2,924.12
153.8	152.9	Step 2	5,802.90
152.9	152.9	Step 2	1,287.60
152.9	152.1	Step 2	1,758.56
152.1	151.9	Step 2	1,698.23
151.9	151.0	Step 1	2,836.25
151.0	150.9	Step 2	1,295.18
150.9	144.0	Step 2	30,803.27
144.0	144.0	Step 1	5.75
144.0	143.3	Step 2	1,066.32
143.3	142.4	Step 2	3,735.02
Total Length (ft)			63,290.48

Legend

- Professional Well Logs
- AZGS Sites
  - Support
  - Consistent
  - Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

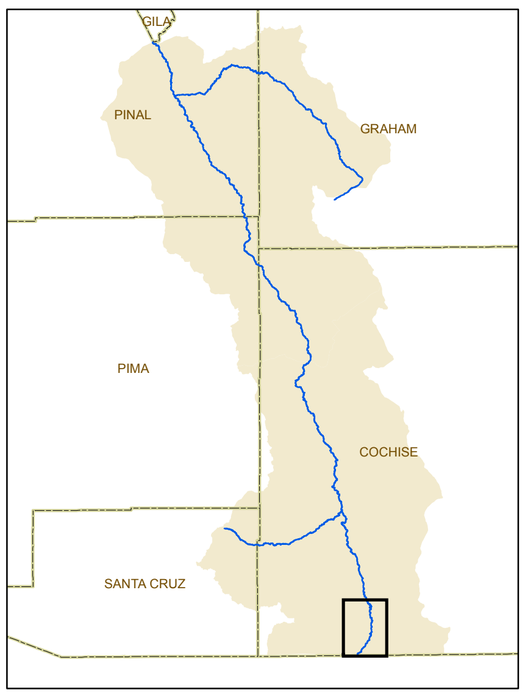
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 157-143

Map 1 of 17

2015 Supplemental
Sublflow Report

February 2015

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
142.6	142.5	Step 2	554.87
142.5	142.5	Step 2	913.87
142.5	141.9	Step 2	1,231.39
141.9	141.3	Step 2	4,001.09
141.3	140.6	Step 2	2,161.00
140.6	140.4	Step 2	2,162.08
140.4	139.6	Step 2	2,704.41
139.6	138.4	Step 2	4,229.70
138.4	138.4	Step 2	1,355.62
138.4	136.9	Step 2	6,583.70
136.9	136.1	Step 2	5,504.48
136.1	136.0	Step 1	620.76
136.0	136.0	Step 1	315.71
136.0	136.0	Step 1	148.78
136.0	135.9	Step 1	729.59
135.9	135.7	Step 1	921.41
135.7	135.3	Step 2	1,408.92
135.3	135.2	Step 1	230.36
135.2	135.2	Step 1	262.63
135.2	135.1	Step 1	313.89
135.1	134.9	Step 2	1,995.45
134.9	134.5	Step 2	2,142.17
134.5	134.3	Step 1	351.32
134.3	134.1	Step 2	2,108.30
134.1	133.7	Step 1	2,109.55
133.7	133.7	Step 1	146.50
133.7	133.6	Step 1	743.16
133.6	133.4	Step 1	603.82
133.4	132.3	Step 1	5,745.48
132.3	132.3	Step 1	257.01
132.3	132.1	Step 1	721.40
132.1	132.0	Step 1	307.85
132.0	132.0	Step 1	309.15
132.0	131.7	Step 2	2,470.42
131.7	130.9	Step 1	4,852.76
Total Length (ft)			61,218.61

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
142.4	141.0	Step 2	6,223.81
141.0	140.1	Step 2	3,914.53
140.1	139.7	Step 2	1,834.26
139.7	139.1	Step 1	3,332.08
139.1	138.9	Step 2	1,226.56
138.9	138.7	Step 1	880.61
138.7	138.5	Step 2	1,714.75
138.5	137.9	Step 2	2,326.76
137.9	137.9	Step 1	24.84
137.9	137.7	Step 2	1,131.90
137.7	137.6	Step 2	426.45
137.6	137.3	Step 1	1,541.43
137.3	137.3	Step 1	233.30
137.3	137.2	Step 1	536.89
137.2	136.7	Step 2	1,728.46
136.7	136.4	Step 1	2,605.17
136.4	135.4	Step 3	5,024.99
135.4	134.5	Step 2	4,676.46
134.5	134.4	Step 1	378.88
134.4	134.2	Step 2	982.17
134.2	133.7	Step 1	2,848.08
133.7	133.0	Step 2	3,900.56
133.0	132.9	Step 1	199.33
132.9	132.7	Step 2	2,501.86
132.7	132.2	Step 2	366.97
132.2	131.2	Step 1	5,513.10
131.2	131.2	Step 1	167.97
131.2	130.9	Step 1	1,966.94
Total Length (ft)			58,209.09

T21S R21E

T21S R22E

T22S R21E

T22S R22E

AZGS Site 10

AZGS Site 8

AZGS Site 7

AZGS Site 6

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

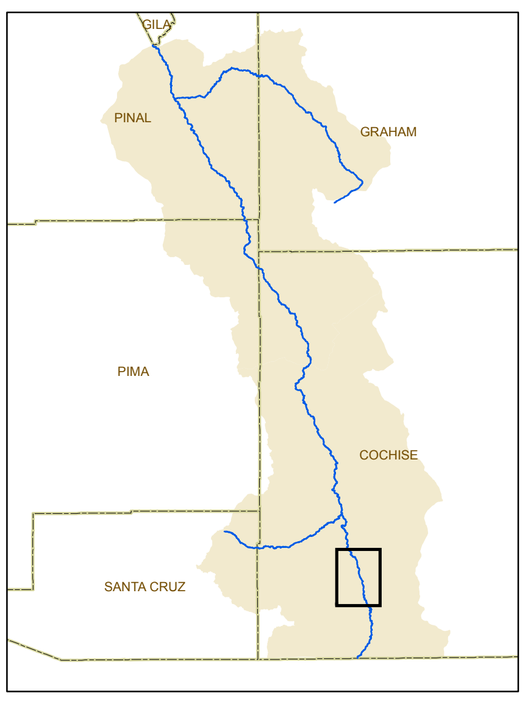
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 143-131

Map 2 of 17

2015 Supplemental
Subflow Report

February 2015

T19S R21E

T19S R22E

T20S R21E

T21S R21E

T21S R22E

AZGS Site 12

AZGS Site 11

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
130.9	130.6	Step 1	1,614.44
130.6	129.8	Step 2	4,779.36
129.8	129.4	Step 2	1,303.16
129.4	128.4	Step 1	5,874.56
128.4	128.0	Step 1	1,185.92
128.0	127.9	Step 2	848.87
127.9	127.9	Step 1	168.48
127.9	127.4	Step 2	3,152.24
127.4	127.3	Step 1	878.60
127.3	127.3	Step 1	262.85
127.3	126.3	Step 1	4,927.61
126.3	126.0	Step 2	477.94
126.0	126.0	Step 1	35.32
126.0	125.9	Step 2	761.22
125.9	125.4	Step 1	2,467.01
125.4	125.4	Step 1	612.28
125.4	125.2	Step 1	632.27
125.2	124.6	Step 3	5,935.39
124.6	124.6	Step 1	104.81
124.6	124.6	Step 2	436.62
124.6	123.3	Step 2	6,307.68
123.3	122.9	Step 2	1,867.67
122.9	122.3	Step 1	1,421.97
122.3	122.2	Step 2	897.03
122.2	122.1	Step 1	157.43
0.0	0.0	Step 1	1,727.13
0.0	120.7	Step 2	1,107.08
120.7	120.7	Step 2	217.67
120.7	120.6	Step 1	954.53
120.6	120.0	Step 1	3,157.32
120.0	118.4	Step 1	8,423.32
118.4	118.4	Step 1	1,584.10
118.4	118.4	Step 1	336.35
118.4	118.3	Step 1	853.22
118.3	118.2	Step 1	391.08
118.2	118.1	Step 2	1,061.82
118.1	117.8	Step 1	1,747.19
122.1	0.4	Step 2	3,848.58
Total Length (ft)			72,520.14

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
130.9	130.8	Step 1	128.39
130.8	130.2	Step 1	3,137.86
130.2	129.6	Step 1	1,100.39
129.6	129.6	Step 1	450.09
129.6	129.6	Step 1	660.33
129.6	128.1	Step 1	9,814.04
128.1	127.1	Step 2	3,215.67
127.1	126.7	Step 2	3,424.69
126.7	126.7	Step 1	123.41
126.7	126.5	Step 2	1,118.21
126.5	126.0	Step 3	1,782.27
126.0	125.3	Step 1	3,924.35
125.3	123.6	Step 1	8,270.73
123.6	123.6	Step 1	41.88
123.6	123.0	Step 2	3,269.51
123.0	123.0	Step 1	252.42
123.0	122.7	Step 3	1,725.39
122.7	122.6	Step 2	297.43
122.6	122.5	Step 2	1,000.27
122.5	122.4	Step 1	2,546.65
122.4	120.4	Step 3	6,516.41
120.4	120.2	Step 2	2,063.38
120.2	119.9	Step 2	1,854.69
119.9	119.6	Step 1	1,223.02
119.6	119.2	Step 2	1,965.38
119.2	119.0	Step 1	1,133.74
119.0	118.9	Step 1	291.20
118.9	118.8	Step 2	526.88
118.8	118.7	Step 1	1,252.32
118.7	118.5	Step 2	588.98
118.5	118.1	Step 1	2,314.72
118.1	117.9	Step 2	1,147.53
Total Length (ft)			67,162.24

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
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- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

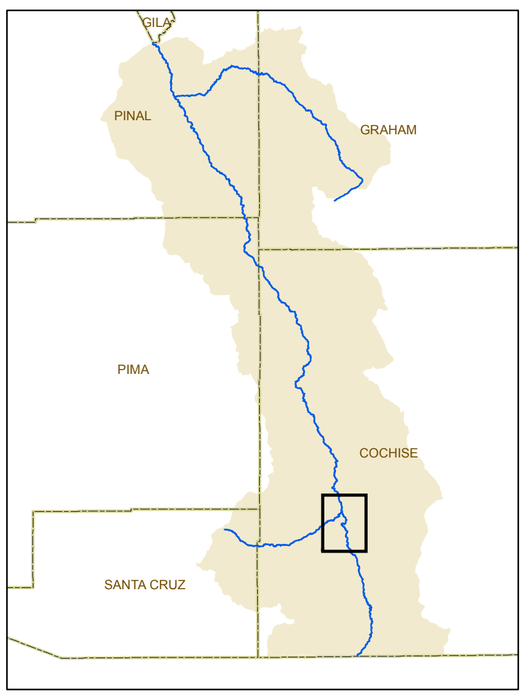
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 131-118

Map 3 of 17

2015 Supplemental Sublflow Report

February 2015

T17S R20E

T17S R21E

T18S R21E

T18S R20E

T19S R20E

T19S R21E

AZGS Site 18

AZGS Site 16

AZGS Site 15

AZGS Site 14

AZGS Site 13

St David Ditch

104 105 106 107 108 109 110 111 112 113 114 115 116 117 118

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
117.8	117.1	Step 1	2,638.72
117.1	117.0	Step 2	532.55
117.0	116.0	Step 2	1,735.39
116.0	115.9	Step 1	1,491.70
115.9	115.1	Step 2	2,825.06
115.1	115.1	Step 2	233.72
115.1	115.0	Step 2	604.89
115.0	114.8	Step 2	1,562.79
114.8	114.7	Step 1	767.61
114.7	114.7	Step 2	842.60
114.7	114.7	Step 2	459.46
114.7	114.6	Step 1	165.71
114.6	114.2	Step 2	1,037.85
114.2	114.0	Step 2	1,597.80
114.0	114.0	Step 1	77.93
114.0	113.9	Step 2	676.16
113.9	113.9	Step 1	179.39
113.9	112.2	Step 3	5,509.55
112.2	112.1	Step 2	432.34
112.1	111.5	Step 2	3,742.53
111.5	111.5	Step 2	398.02
111.5	111.2	Step 2	1,112.60
111.2	111.2	Step 2	585.31
111.2	110.6	Step 2	2,293.20
110.6	110.2	Step 1	2,555.14
110.2	107.7	Step 3	7,631.74
107.7	107.3	Step 2	2,568.59
107.3	107.0	Step 2	1,702.58
107.0	106.0	Step 3	5,053.49
106.0	105.7	Step 2	1,940.45
105.7	105.4	Step 1	1,238.82
105.4	105.2	Step 2	593.17
105.2	105.2	Step 1	581.69
105.2	104.7	Step 2	2,740.57
104.7	104.4	Step 2	1,040.50
104.4	104.3	Step 1	179.51
104.3	104.3	Step 1	50.83
104.3	104.3	Step 2	451.77
Total Length (ft)			59,831.73

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
117.9	117.8	Step 1	536.64
117.8	117.7	Step 1	708.15
117.7	117.6	Step 1	757.07
117.6	116.7	Step 3	1,950.57
116.7	116.7	Step 2	850.31
116.7	116.6	Step 1	409.31
116.6	116.5	Step 1	855.24
116.5	115.5	Step 1	3,250.64
115.5	115.5	Step 2	960.65
115.5	114.3	Step 3	2,554.05
114.3	113.2	Step 2	4,882.86
113.2	112.5	Step 3	4,668.37
112.5	109.3	Step 3	12,851.60
109.3	107.0	Step 3	10,302.83
107.0	106.8	Step 2	1,946.41
106.8	103.8	Step 3	13,274.66
Total Length (ft)			60,759.36

Legend

- Professional Well Logs
- AZGS Sites
  - Support
  - Consistent
  - Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
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- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

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- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
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- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

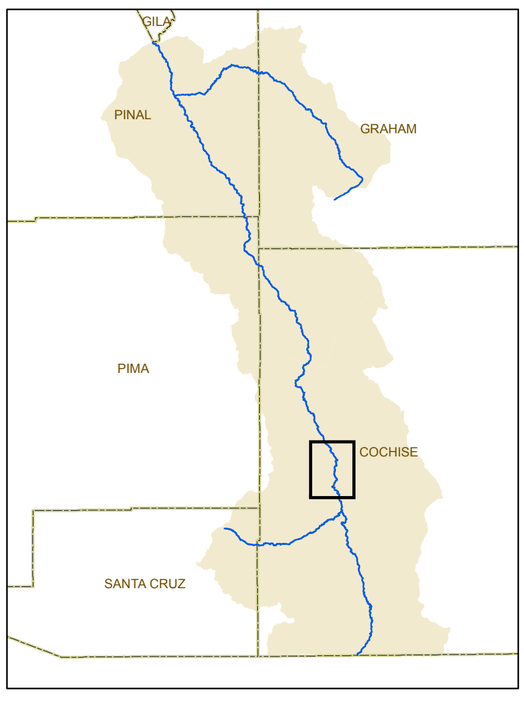
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 118-104

Map 4 of 17

2015 Supplemental Sublflow Report

February 2015

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
104.3	102.1	Step 3	9,574.90
102.1	100.7	Step 2	8,716.12
100.7	97.6	Step 2	15,563.69
97.6	95.1	Step 3	11,637.88
95.1	95.1	Step 2	585.99
95.1	95.0	Step 2	687.98
95.0	101.0	Step 1	1,711.89
101.0	92.5	Step 3	7,777.69
Total Length (ft)			56,256.14

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
103.8	102.7	Step 2	4,590.25
102.7	102.5	Step 1	2,237.70
102.5	102.5	Step 2	34.81
102.5	101.0	Step 3	6,653.15
101.0	101.0	Step 2	223.73
101.0	100.0	Step 2	5,501.01
100.0	98.3	Step 3	6,454.46
98.3	94.0	Step 3	18,862.56
94.0	92.9	Step 2	5,695.34
92.9	91.4	Step 2	2,249.00
91.4	91.3	Step 2	4,545.54
Total Length (ft)			57,047.55

T16S R20E
T16S R21E
T17S R21E
T17S R20E
T18S R20E
T18S R21E
AZGS Site 23
AZGS Site 22
AZGS Site 18
St David Ditch

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
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- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
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- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

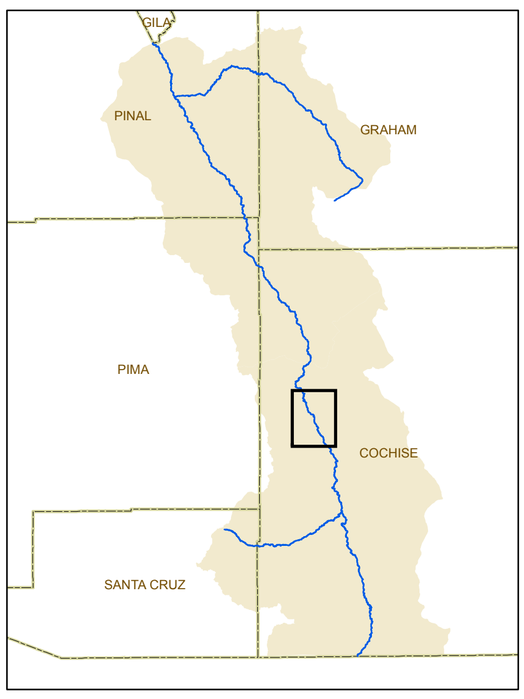
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 104-91

Map 5 of 17

2015 Supplemental Sublflow Report

February 2015

T14S R20E

T14S R19E

T15S R20E

T16S R19E

T16S R20E

AZGS Site 27

AZGS Site 26
AZGS Site 25

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
92.5	88.9	Step 2	17,398.79
88.9	86.4	Step 3	12,133.10
86.4	84.0	Step 2	5,344.10
84.0	83.3	Step 3	5,648.79
83.3	83.1	Step 2	1,526.73
83.1	82.1	Step 2	4,372.84
82.1	81.8	Step 1	1,665.10
81.8	81.7	Step 2	1,162.30
81.7	81.4	Step 1	2,130.26
81.4	81.3	Step 1	399.62
81.3	81.0	Step 1	1,513.88
81.0	80.1	Step 2	3,930.57
80.1	80.0	Step 1	256.92
80.0	79.9	Step 1	529.51
79.7	79.9	Step 1	900.62
79.7	78.3	Step 3	8,298.79
78.3	78.1	Step 1	241.05
78.1	76.9	Step 3	5,408.16
Total Length (ft)			72,861.13

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
91.3	90.4	Step 2	3,290.05
90.4	89.9	Step 2	4,265.40
89.9	89.8	Step 2	781.94
89.8	88.6	Step 2	2,179.80
88.6	87.1	Step 2	3,482.47
87.1	86.3	Step 1	3,966.08
86.3	86.2	Step 1	844.88
86.2	85.7	Step 2	1,764.10
85.7	85.6	Step 1	406.73
85.6	85.6	Step 2	196.03
85.6	85.4	Step 2	536.12
85.4	84.5	Step 3	5,306.62
84.5	84.4	Step 2	573.59
84.4	84.2	Step 1	1,313.80
84.2	84.1	Step 2	1,451.89
84.1	81.6	Step 3	9,066.03
81.6	81.5	Step 1	630.83
81.5	81.3	Step 2	666.59
81.3	79.9	Step 2	7,836.26
79.9	79.1	Step 2	2,885.86
79.1	78.1	Step 3	5,712.75
78.1	76.6	Step 2	7,522.28
Total Length (ft)			64,680.08

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

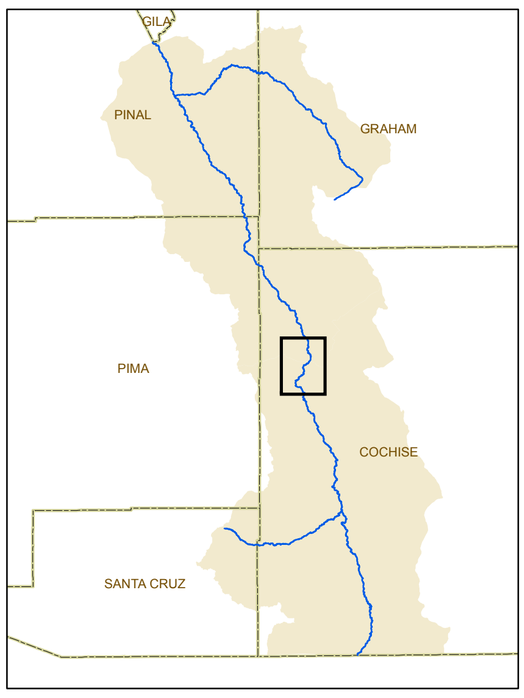
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 91-77

Map 6 of 17

2015 Supplemental Sublflow Report

February 2015

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
76.6	76.0	Step 2	3,296.10
76.0	74.4	Step 3	7,362.71
74.4	74.2	Step 2	831.27
74.2	73.8	Step 2	1,229.66
73.8	71.9	Step 3	7,732.08
71.9	71.8	Step 2	1,295.77
71.8	71.5	Step 2	2,116.13
71.5	70.6	Step 2	2,959.60
70.6	70.4	Step 2	2,239.36
70.4	70.3	Step 2	579.05
70.3	70.1	Step 1	1,081.39
70.1	69.9	Step 2	1,907.33
69.9	69.8	Step 2	1,043.61
69.8	68.8	Step 3	3,298.70
68.8	68.8	Step 1	939.45
68.8	68.4	Step 1	1,166.16
68.4	68.4	Step 1	147.86
68.4	68.4	Step 1	134.10
68.4	68.3	Step 1	363.92
68.3	68.2	Step 1	463.38
68.2	68.1	Step 1	893.98
68.1	67.8	Step 1	2,579.87
67.8	65.8	Step 2	8,367.08
65.8	65.6	Step 1	1,469.35
65.6	65.6	Step 1	211.65
65.6	65.5	Step 1	273.57
65.5	65.2	Step 1	688.33
65.2	65.2	Step 1	405.19
65.2	65.2	Step 1	255.78
65.2	65.1	Step 1	485.74
65.1	64.6	Step 1	1,449.45
64.6	64.5	Step 1	377.57
64.5	64.4	Step 1	496.57
64.4	64.4	Step 1	706.19
64.4	64.3	Step 1	515.59
64.3	63.9	Step 1	1,964.14
63.9	63.5	Step 2	3,256.83
63.5	63.2	Step 2	1,355.07
63.2	62.8	Step 2	2,628.13
Total Length (ft)			68,567.70

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
76.9	76.8	Step 2	1,587.27
76.8	76.5	Step 1	1,675.12
76.5	76.4	Step 1	534.84
76.4	76.3	Step 1	773.95
76.3	76.3	Step 2	237.24
76.3	75.7	Step 2	3,240.05
75.7	75.6	Step 1	345.12
75.6	74.0	Step 3	7,467.57
74.0	73.2	Step 2	5,069.96
73.2	73.0	Step 1	1,296.95
73.0	71.2	Step 2	8,552.71
71.2	70.8	Step 2	2,349.11
70.8	70.8	Step 1	184.43
70.8	70.7	Step 2	920.74
70.7	70.5	Step 1	137.99
70.5	69.7	Step 2	2,941.83
69.7	69.0	Step 2	4,985.60
69.0	69.0	Step 1	344.20
69.0	67.2	Step 2	6,829.22
67.2	67.1	Step 1	767.36
67.1	66.4	Step 2	2,952.50
66.4	66.4	Step 1	362.16
66.2	66.4	Step 1	385.96
66.2	66.2	Step 1	361.04
66.1	66.2	Step 1	382.24
66.1	66.1	Step 1	148.02
66.1	66.1	Step 1	59.43
66.0	66.1	Step 2	1,168.60
66.0	66.0	Step 1	580.78
66.0	64.3	Step 3	8,181.35
64.3	64.2	Step 2	862.54
64.2	64.0	Step 2	834.40
64.0	64.0	Step 1	348.66
64.0	63.7	Step 2	885.99
63.7	63.7	Step 1	114.08
63.7	63.1	Step 2	1,912.71
63.1	63.1	Step 1	213.32
Total Length (ft)			69,995.04

T13S R20E

T13S R19E

T14S R19E

T14S R20E

AZGS Site 30

AZGS Site 29

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

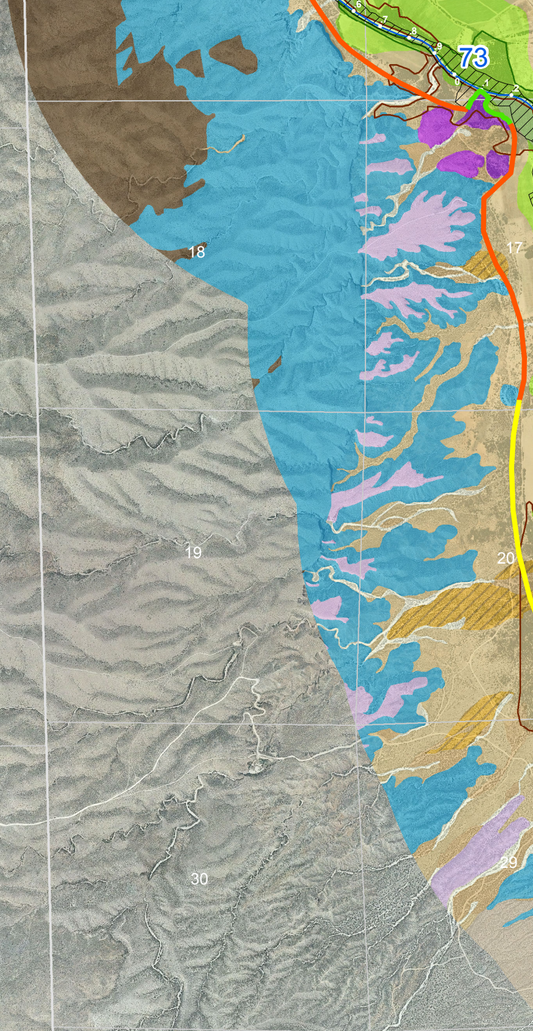
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 77-63

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2015 Supplemental Sublflow Report

February 2015

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
62.8	62.4	Step 2	1,327.79
62.4	62.1	Step 2	469.97
62.1	61.7	Step 2	2,944.69
61.7	61.2	Step 2	1,430.91
61.2	61.2	Step 2	1,003.97
61.2	61.1	Step 1	476.43
61.1	61.1	Step 1	45.57
61.1	61.0	Step 1	790.10
61.0	60.6	Step 1	1,977.95
60.6	59.1	Step 2	6,623.85
59.1	59.0	Step 1	999.33
59.0	58.9	Step 1	470.76
58.9	58.7	Step 1	822.50
58.7	58.7	Step 1	266.42
58.7	58.6	Step 1	793.70
58.6	58.5	Step 1	764.15
58.5	58.3	Step 1	1,175.58
58.3	58.2	Step 1	76.13
58.2	58.1	Step 1	973.31
58.1	57.8	Step 1	1,565.38
57.8	57.7	Step 1	1,105.98
57.7	57.5	Step 1	756.79
57.5	57.5	Step 1	328.95

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
57.5	57.5	Step 1	382.87
57.5	57.5	Step 1	95.92
57.5	57.5	Step 1	168.11
57.3	57.5	Step 1	932.53
57.3	57.2	Step 1	590.68
57.2	57.2	Step 1	185.42
57.2	57.1	Step 1	344.80
57.1	56.9	Step 1	1,252.10
56.9	56.8	Step 1	338.44
56.8	56.7	Step 1	811.58
56.7	54.8	Step 2	10,183.49
54.8	54.0	Step 2	4,195.81
54.0	53.9	Step 1	696.82
53.9	53.4	Step 1	2,100.65
53.4	53.3	Step 1	406.42
53.3	52.5	Step 3	2,673.34
52.5	52.3	Step 1	1,484.08
52.3	52.1	Step 1	1,425.02
52.1	51.4	Step 1	4,356.93
51.4	50.3	Step 2	4,991.77
50.3	50.1	Step 2	2,890.13
50.1	49.6	Step 2	2,671.96
Total Length (ft)			70,369.06

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
63.1	61.8	Step 2	7,862.39
61.8	61.8	Step 1	218.90
61.8	61.4	Step 2	1,905.79
61.4	61.3	Step 2	373.35
61.3	60.5	Step 3	3,413.43
60.5	60.2	Step 1	1,566.01
60.2	60.2	Step 1	275.88
60.2	60.2	Step 1	210.27
60.2	59.7	Step 2	1,903.48
59.7	59.7	Step 1	233.10
59.7	59.5	Step 2	1,604.42
59.5	59.4	Step 1	892.42
59.4	59.2	Step 1	720.90
59.2	59.2	Step 1	437.11
59.2	59.2	Step 1	86.61
59.2	59.1	Step 1	573.44
59.1	59.0	Step 1	207.80
59.0	59.0	Step 1	223.81
59.0	58.9	Step 1	507.72
58.9	58.8	Step 1	676.91
58.8	58.5	Step 1	1,180.81
58.5	58.3	Step 1	650.83
58.3	58.3	Step 1	525.18

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
58.3	58.2	Step 1	562.50
58.2	58.0	Step 1	879.78
58.0	57.7	Step 1	1,399.94
57.7	57.6	Step 1	662.99
57.6	57.4	Step 1	900.19
57.4	57.4	Step 1	97.07
57.3	57.4	Step 1	562.62
57.3	56.9	Step 3	2,999.51
56.9	56.8	Step 1	433.30
56.8	55.9	Step 2	5,270.66
55.9	59.0	Step 2	3,208.28
59.0	55.2	Step 1	585.69
55.2	54.4	Step 2	2,943.27
54.4	54.1	Step 2	2,679.59
54.1	52.9	Step 2	5,421.02
52.9	52.7	Step 1	2,744.25
52.7	52.4	Step 3	932.16
52.4	51.6	Step 1	4,666.72
51.6	51.1	Step 2	3,382.23
51.1	51.0	Step 2	1,764.99
51.0	49.7	Step 1	3,319.11
Total Length (ft)			71,666.43

T11S R18E

T11S R19E

T12S R18E

T12S R19E

T13S R18E

T13S R19E

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

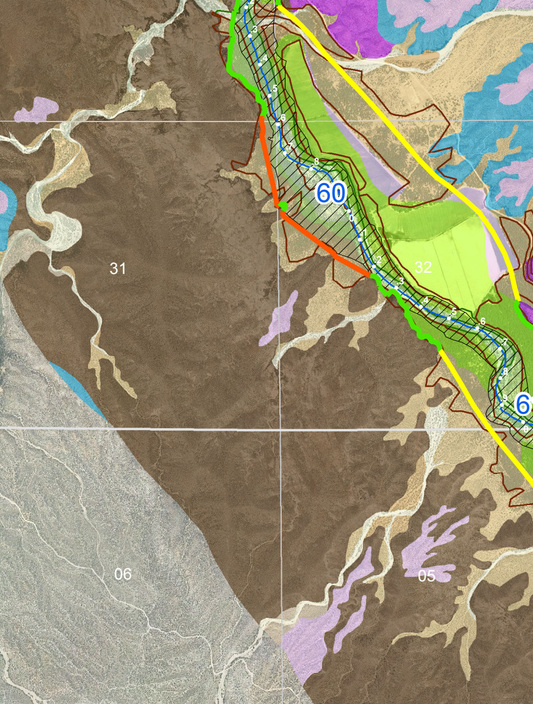
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 63-50

Map 8 of 17

2015 Supplemental Sublflow Report

February 2015

T9S R17E

T9S R18E

T10S R18E

T10S R17E

T11S R17E

T11S R18E

T11S R19E

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
49.7	49.3	Step 2	3,139.39
49.3	47.8	Step 2	4,646.01
47.8	47.3	Step 1	3,736.42
47.3	46.3	Step 2	3,677.61
46.3	45.9	Step 2	1,657.59
45.9	44.6	Step 2	5,565.37
44.6	43.9	Step 2	1,531.74
43.9	43.6	Step 2	2,561.26
43.6	42.6	Step 1	5,453.57
42.6	41.6	Step 2	1,817.01
41.6	41.5	Step 1	1,292.84
41.5	41.3	Step 2	2,166.37
41.3	40.6	Step 2	3,943.00
40.6	37.9	Step 2	9,117.42
37.9	37.4	Step 2	3,406.28
37.4	36.4	Step 2	3,122.17
Total Length (ft)			56,834.04

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
49.6	48.4	Step 3	6,056.24
48.4	48.4	Step 1	476.36
48.4	48.2	Step 1	619.38
48.2	48.1	Step 1	795.24
48.1	47.6	Step 2	1,668.30
47.6	46.7	Step 2	3,052.72
46.7	46.7	Step 1	779.70
46.7	46.7	Step 2	363.04
46.7	46.6	Step 2	252.97
46.6	46.5	Step 2	1,192.31
46.5	45.4	Step 3	4,928.74
45.4	45.3	Step 1	394.56
45.3	45.2	Step 2	912.57
45.2	44.2	Step 2	4,070.54
44.2	43.2	Step 2	2,724.91
43.2	43.1	Step 2	1,629.11
43.1	42.1	Step 2	3,454.69
42.1	42.1	Step 1	189.67
42.1	42.1	Step 1	113.22
42.1	42.0	Step 1	843.21
42.0	41.9	Step 2	1,040.41
41.9	41.8	Step 2	1,274.61
41.8	40.1	Step 3	5,155.80
40.1	39.8	Step 2	1,376.90
39.8	38.3	Step 2	6,654.28
38.3	37.6	Step 2	3,398.10
37.6	36.7	Step 2	5,129.04
Total Length (ft)			58,546.59

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

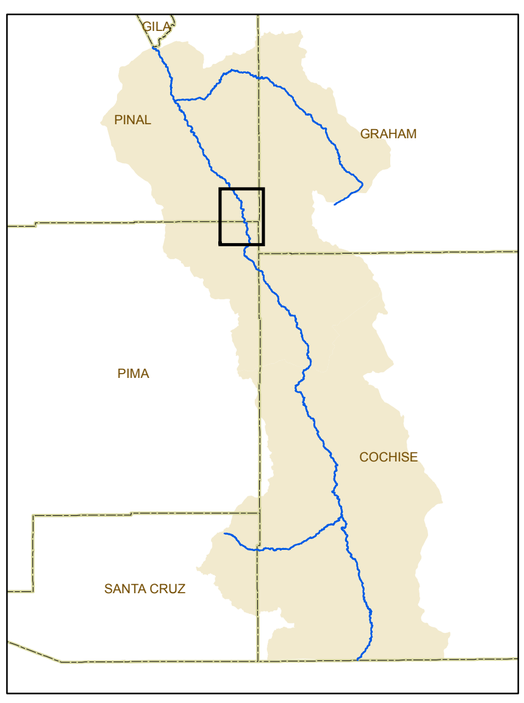
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 50-37

Map 9 of 17

2015 Supplemental
Subflow Report

February 2015

T8S R17E

T8S R18E

T9S R18E

T9S R17E

T10S R17E

T10S R18E

AZGS Site 35

AZGS Site 34

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
36.7	36.6	Step 2	1,070.95
36.6	35.5	Step 2	2,464.22
35.5	35.4	Step 2	590.89
35.4	35.1	Step 2	2,618.95
35.1	35.0	Step 2	1,682.33
35.0	34.0	Step 2	2,353.00
34.0	33.0	Step 2	5,743.28
33.0	31.0	Step 2	9,673.91
31.0	29.3	Step 2	5,626.97
29.3	28.3	Step 2	7,584.16
28.3	27.4	Step 2	3,166.36
27.4	26.0	Step 2	4,820.41
27.4	26.0	Step 2	3,967.39
Total Length (ft)			51,362.82

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
36.4	36.3	Step 1	1,099.87
36.3	35.8	Step 2	2,990.64
35.8	35.6	Step 2	1,039.67
35.6	34.4	Step 2	4,202.86
34.4	30.6	Step 2	17,466.96
30.6	30.3	Step 2	2,034.32
30.3	29.6	Step 2	3,016.84
29.6	29.0	Step 2	2,621.37
29.0	27.6	Step 2	7,301.29
27.6	27.3	Step 2	669.48
27.3	26.7	Step 1	3,786.72
26.7	25.0	Step 2	8,091.04
25.0	24.1	Step 3	3,907.04
24.1	24.1	Step 1	231.98
Total Length (ft)			58,460.08

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

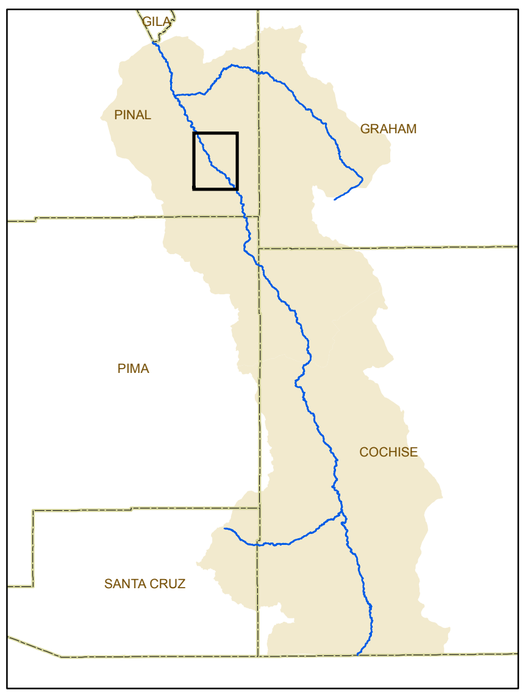
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 37-24

Map10 of 17

2015 Supplemental
Sublflow Report

February 2015

T6S R16E

T6S R17E

T7S R17E

T7S R16E

T8S R16E

T8S R17E

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
24.1	22.5	Step 2	7,352.12
22.5	22.5	Step 1	257.98
22.5	22.5	Step 1	154.35
22.5	22.4	Step 1	650.03
22.4	22.3	Step 2	755.51
22.3	21.3	Step 2	3,007.75
21.3	20.9	Step 1	2,333.41
20.9	19.5	Step 3	4,213.72
19.5	19.5	Step 1	173.66
19.5	19.5	Step 1	125.16
19.5	19.4	Step 1	500.14
19.4	19.4	Step 1	203.09
19.4	19.2	Step 1	915.08
19.2	19.2	Step 1	229.54
19.2	19.2	Step 1	117.77
19.2	18.0	Step 2	4,033.58
18.0	16.1	Step 2	8,778.21
16.1	15.4	Step 2	3,767.40
15.4	15.4	Step 1	72.51
15.4	15.2	Step 2	1,093.36
15.2	15.1	Step 1	558.15
15.1	13.5	Step 2	5,377.76
13.5	13.3	Step 2	1,330.66
13.3	13.0	Step 2	1,804.06
13.0	13.0	Step 2	565.99
13.0	12.5	Step 2	1,206.49
12.5	12.3	Step 2	2,008.25
12.3	12.3	Step 1	212.57
12.3	11.7	Step 2	1,539.58
11.7	11.5	Step 2	1,207.88
11.5	11.5	Step 1	385.70
11.5	11.5	Step 1	199.77
11.5	11.5	Step 1	123.68
11.5	10.8	Step 2	3,625.59
Total Length (ft)			58,880.47

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
23.7	17.3	Step 2	19,116.38
21.9	20.2	Step 2	5,282.36
20.2	17.3	Step 2	12,356.11
17.1	16.3	Step 2	4,936.04
16.3	15.8	Step 2	1,802.37
14.7	14.7	Step 2	3,867.70
14.7	14.6	Step 1	553.00
14.6	14.0	Step 2	2,029.63
12.7	12.6	Step 2	1,312.55
12.6	11.9	Step 2	2,970.30
11.9	11.7	Step 1	1,939.56
11.7	10.0	Step 2	7,459.56
Total Length (ft)			63,625.56

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

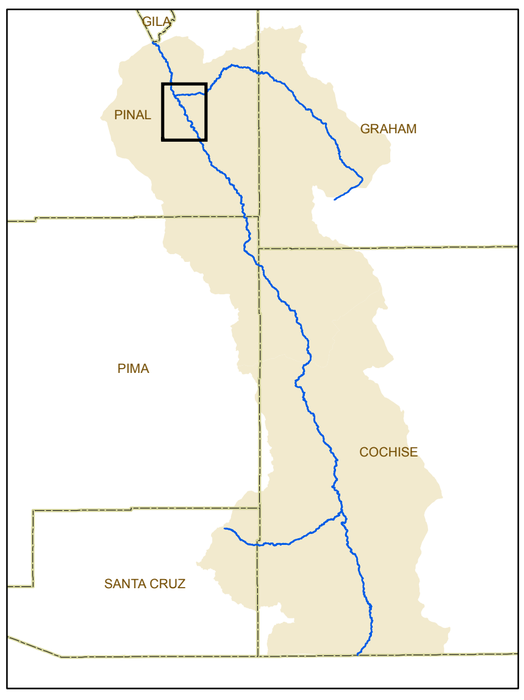
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 24-11

Map11 of 17

2015 Supplemental Sublflow Report

February 2015

T5S R15E

T5S R16E

T6S R15E

T6S R16E

T7S R15E

T7S R16E

LEFT SIDE

River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
10.8	8.5	Step 3	12,207.22
8.5	7.4	Step 2	3,451.00
7.4	6.6	Step 1	4,091.73
6.6	4.4	Step 2	10,266.30
4.4	2.3	Step 2	9,725.46
2.3	2.3	Step 2	759.65
2.3	0.0	Step 2	8,371.17
Total Length (ft)			48,872.53

RIGHT SIDE

River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
10.0	10.0	Step 2	2,262.33
10.0	5.7	Step 2	20,544.04
5.7	5.6	Step 2	1,501.10
5.6	5.1	Step 2	1,222.98
5.1	4.8	Step 2	2,519.58
4.8	4.2	Step 2	2,063.03
4.2	4.1	Step 1	665.44
4.1	3.7	Step 2	621.36
3.7	1.9	Step 3	8,917.20
1.9	1.9	Step 1	136.04
1.9	1.6	Step 2	1,966.71
1.6	1.5	Step 2	1,040.50
1.5	0.8	Step 2	2,694.33
0.8	0.8	Step 1	138.09
0.5	0.6	Step 2	999.62
Total Length (ft)			47,292.33

Legend

- Professional Well Logs
- AZGS Sites
- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

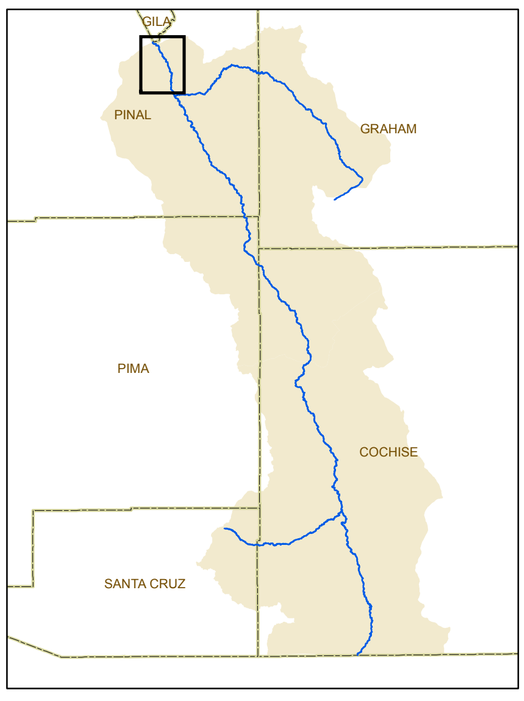
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

San Pedro River: RM 11-0

Map12 of 17

2015 Supplemental
Sublflow Report

February 2015

T6S R19E

T6S R20E

T7S R19E

T7S R20E

T8S R19E

T8S R20E

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
36.4	36.3	Step 2	1,211.89
36.3	36.0	Step 2	1,728.58
36.0	34.8	Step 2	5,088.32
34.8	34.6	Step 1	721.31
34.6	34.3	Step 3	2,310.96
34.3	34.0	Step 1	1,202.51
34.0	33.3	Step 2	3,867.84
33.3	32.4	Step 2	3,480.90
32.4	31.9	Step 2	2,700.68
31.9	31.5	Step 2	1,642.06
31.5	31.4	Step 2	1,385.27
31.4	28.9	Step 3	12,971.87
28.9	28.9	Step 1	45.64
28.9	28.9	Step 2	47.84
28.9	26.8	Step 1	12,212.07
26.8	26.8	Step 1	244.55
26.8	26.4	Step 2	1,203.67
26.4	26.0	Step 1	2,658.79
Total Length (ft)			54,724.74

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
36.5	36.4	Step 2	398.32
36.4	35.1	Step 2	7,463.53
35.1	35.0	Step 1	495.49
35.0	33.8	Step 3	5,633.37
33.8	33.7	Step 2	851.86
33.7	33.7	Step 1	113.36
33.7	32.9	Step 2	4,228.60
32.9	32.8	Step 1	144.48
32.8	32.8	Step 2	147.48
32.8	31.7	Step 2	5,901.56
31.7	29.4	Step 3	11,199.03
29.4	29.2	Step 1	1,233.17
29.2	29.1	Step 2	504.94
29.1	28.7	Step 1	1,856.23
28.7	28.5	Step 2	913.05
28.5	27.9	Step 1	3,215.27
27.9	27.6	Step 2	1,325.51
27.6	27.6	Step 1	636.04
27.6	27.5	Step 2	485.22
27.5	26.1	Step 1	7,555.75
Total Length (ft)			54,302.23

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

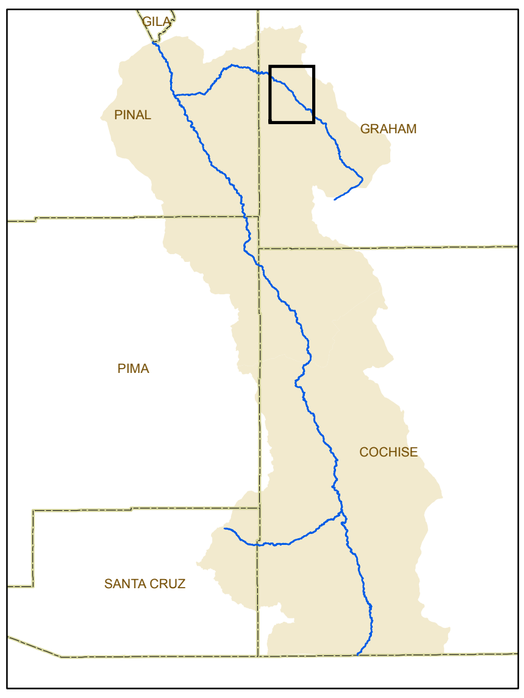
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

Aravaipa Creek: RM 37-26

Map13 of 17

2015 Supplemental
Sublflow Report

February 2015

T6S R17E

T6S R18E

T6S R19E

T7S R17E

T7S R18E

T7S R19E

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
26.0	25.9	Step 2	766.21
25.9	25.8	Step 1	290.34
25.8	25.7	Step 2	765.27
25.7	25.6	Step 1	524.91
25.6	25.2	Step 2	1,502.57
25.2	25.2	Step 1	322.47
25.2	25.0	Step 2	892.62
25.0	24.8	Step 1	1,481.56
24.8	24.7	Step 2	357.22
24.7	24.3	Step 1	1,685.32
24.3	24.3	Step 1	184.09
24.3	24.3	Step 1	333.23
24.3	24.1	Step 2	1,033.33
24.1	24.1	Step 1	242.28
24.1	24.0	Step 1	382.57
24.0	22.3	Step 1	8,804.56
22.3	22.2	Step 1	82.48

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
22.2	20.3	Step 1	10,064.94
20.3	20.2	Step 3	1,024.27
20.2	20.2	Step 1	57.84
20.2	19.0	Step 1	6,324.04
19.0	19.0	Step 1	97.02
19.0	19.0	Step 1	53.79
19.0	18.3	Step 1	3,167.37
18.3	18.3	Step 2	232.98
18.3	16.8	Step 1	7,925.75
16.8	16.8	Step 1	132.17
16.8	14.2	Step 1	13,683.55
14.2	14.1	Step 1	481.07
14.1	13.1	Step 1	5,235.54
13.1	13.1	Step 2	176.11
13.1	12.5	Step 1	2,694.11
12.5	12.5	Step 1	360.30
12.5	7.3	Step 1	25,741.58
Total Length (ft)			97,103.46

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
26.1	25.9	Step 2	732.77
25.9	22.6	Step 1	16,633.06
22.6	22.6	Step 2	175.67
22.6	16.4	Step 1	32,513.36
16.4	16.4	Step 1	135.69
16.4	11.8	Step 1	23,410.00
11.8	11.7	Step 1	301.89
11.7	11.1	Step 1	2,855.15
11.1	11.0	Step 2	216.94
11.0	10.0	Step 1	4,915.41
10.0	10.0	Step 1	111.87
10.0	8.6	Step 1	6,865.42
8.6	8.6	Step 1	128.58
8.6	8.0	Step 1	3,038.75
Total Length (ft)			92,034.55

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

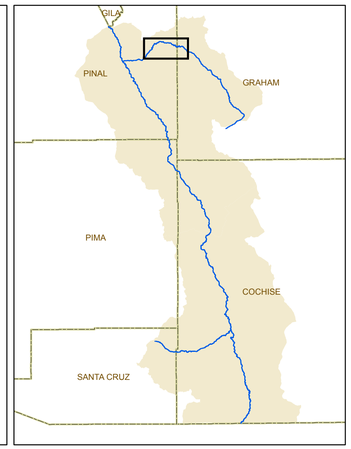
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

Aravaipa Creek: RM 26-8

Map 14 of 17

2015 Supplemental
Sublflow Report

February 2015

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
7.3	7.2	Step 2	752.72
7.2	5.3	Step 1	9,615.81
5.3	5.3	Step 1	26.29
5.3	5.3	Step 1	70.90
5.3	5.3	Step 1	66.18
5.3	5.2	Step 2	475.92
5.2	5.0	Step 1	1,010.30
5.0	5.0	Step 1	195.36
5.0	4.9	Step 1	450.44
4.9	4.9	Step 2	319.24
4.9	4.8	Step 1	719.42
4.8	4.8	Step 1	70.76
4.8	4.8	Step 1	310.53
4.8	4.8	Step 1	51.01
4.8	4.7	Step 1	387.26
4.7	4.7	Step 1	172.16
4.7	4.6	Step 1	534.70
4.6	4.2	Step 3	1,729.95
4.2	4.2	Step 2	210.04
4.2	4.0	Step 1	952.90
4.0	4.0	Step 1	31.05
4.0	3.4	Step 2	2,755.36
3.4	3.4	Step 1	142.05
3.4	3.3	Step 2	700.77
3.3	3.3	Step 1	273.14
3.3	3.3	Step 1	407.51
3.3	3.2	Step 1	563.36
3.2	3.2	Step 1	280.54
3.2	2.6	Step 1	1,705.51
2.6	2.5	Step 2	581.77
2.5	2.0	Step 3	3,224.17
2.0	1.6	Step 2	1,559.71
1.6	1.5	Step 1	832.31
1.5	1.5	Step 1	7.13
1.5	1.5	Step 2	293.27
1.5	1.0	Step 2	2,521.23
1.0	0.6	Step 3	1,797.48
12.8	0.5	Step 1	2,443.28
Total Length (ft)			38,241.52

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
8.0	7.7	Step 2	1,723.86
7.7	7.3	Step 1	2,293.79
7.3	6.9	Step 2	1,486.90
6.9	5.7	Step 1	7,002.78
5.7	5.6	Step 1	70.86
5.6	5.4	Step 1	1,212.22
5.4	5.4	Step 1	159.07
5.4	5.4	Step 1	231.08
5.4	5.3	Step 1	30.95
5.3	5.0	Step 1	1,746.52
5.0	5.0	Step 1	61.11
5.0	4.8	Step 1	1,113.90
4.8	4.8	Step 1	51.37
4.8	4.8	Step 2	526.81
4.8	4.6	Step 2	710.17
4.6	4.1	Step 3	3,044.11
4.1	2.9	Step 1	6,233.34
2.9	1.8	Step 2	5,836.58
1.8	1.4	Step 2	1,636.22
1.4	14.0	Step 1	4,125.28
Total Length (ft)			39,296.94

T6S R16E

T6S R17E

T7S R16E

T7S R17E

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium

- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium

- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands

- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium

- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

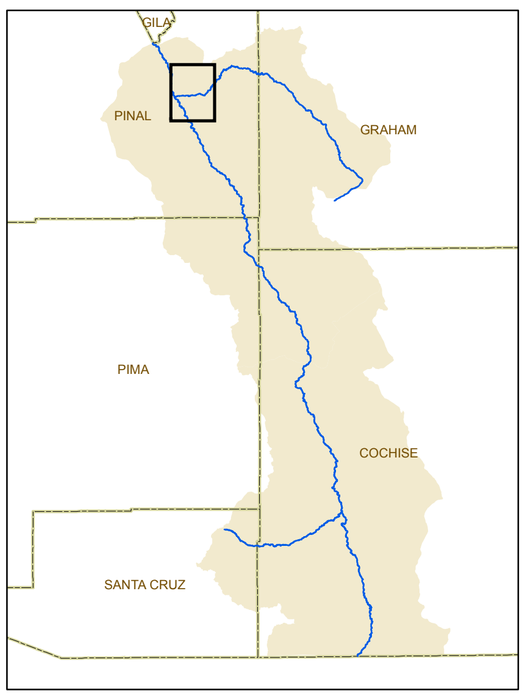
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

Aravaipa Creek: RM 8-0

Map15 of 17

2015 Supplemental
Sublflow Report

February 2015

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
21.3	21.2	Step 1	529.60
21.2	21.1	Step 2	766.13
21.1	20.8	Step 1	1,154.94
20.8	20.8	Step 1	57.94
20.8	20.7	Step 1	90.19
20.7	20.3	Step 2	2,476.34
20.3	20.3	Step 1	387.56
20.3	20.0	Step 2	953.84
20.0	18.6	Step 1	7,875.42
18.6	18.6	Step 1	35.86
18.6	18.5	Step 1	345.46
18.5	18.5	Step 1	81.18
18.5	17.7	Step 1	5,317.51
17.7	17.4	Step 3	1,339.95
17.4	16.9	Step 1	1,659.06
16.9	16.8	Step 2	298.84
16.8	16.8	Step 1	691.66
16.8	16.8	Step 1	64.85
16.8	16.6	Step 2	284.09
16.6	16.6	Step 1	780.03
16.6	16.3	Step 1	898.19
16.3	16.3	Step 1	152.43
16.3	16.1	Step 1	1,084.59
16.1	16.1	Step 1	265.72
16.1	14.1	Step 1	9,524.74

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
14.1	13.8	Step 1	273.98
13.8	13.7	Step 1	1,164.03
13.7	13.7	Step 1	238.63
13.7	13.5	Step 1	1,333.52
13.5	13.5	Step 1	238.90
13.5	13.4	Step 1	390.47
13.4	13.3	Step 1	472.51
13.3	13.2	Step 1	805.39
13.2	13.1	Step 2	461.28
13.1	12.6	Step 1	3,076.10
12.6	12.6	Step 1	123.55
12.6	12.4	Step 1	817.82
12.4	12.3	Step 1	441.06
12.3	12.2	Step 1	1,015.00
12.2	10.5	Step 2	7,647.42
10.5	10.1	Step 1	1,878.98
10.1	9.9	Step 2	892.84
9.9	9.6	Step 1	1,757.57
9.6	9.6	Step 1	340.55
9.6	9.4	Step 1	906.52
9.4	9.4	Step 1	255.50
9.4	9.3	Step 1	284.71
9.3	5.1	Step 2	18,486.97
Total Length (ft)			80,419.38

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
21.2	21.1	Step 1	409.17
21.2	20.9	Step 2	1,329.62
20.9	20.8	Step 1	817.03
20.8	20.7	Step 2	396.13
20.7	20.4	Step 1	1,383.59
20.4	20.4	Step 1	384.84
20.4	20.3	Step 1	492.32
20.3	20.1	Step 2	1,698.60
20.1	19.6	Step 2	1,806.91
19.6	19.2	Step 1	1,929.78
19.2	19.2	Step 2	384.21
19.2	18.5	Step 1	4,728.16
18.5	18.3	Step 2	1,458.26
18.3	17.7	Step 1	2,034.64
17.7	17.6	Step 3	1,512.46
17.6	17.3	Step 1	849.28
17.3	17.3	Step 2	307.89
17.3	17.0	Step 1	1,648.82
17.0	17.0	Step 1	55.50
17.0	17.0	Step 2	146.03
17.0	16.9	Step 1	762.25
16.9	16.7	Step 1	226.92
16.7	16.5	Step 1	1,169.93
16.5	16.5	Step 1	149.69

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
16.5	16.5	Step 1	60.47
16.5	16.4	Step 1	39.68
16.4	16.4	Step 1	88.19
16.4	16.4	Step 2	361.68
16.4	15.9	Step 1	1,698.84
15.9	15.9	Step 2	574.63
15.9	15.6	Step 1	1,561.41
15.6	15.6	Step 1	32.45
15.6	15.5	Step 2	403.41
15.5	15.1	Step 1	2,286.03
15.1	15.1	Step 1	17.91
15.1	14.2	Step 3	4,214.74
14.2	10.3	Step 2	20,385.88
10.3	10.3	Step 1	1,186.70
10.3	8.6	Step 2	7,669.81
8.6	8.5	Step 1	935.62
8.5	8.3	Step 2	844.93
8.3	8.1	Step 1	1,015.77
8.1	8.0	Step 2	1,119.06
8.0	7.4	Step 1	2,246.09
7.4	7.3	Step 2	706.87
7.3	7.1	Step 1	1,014.99
7.1	7.0	Step 2	978.76
Total Length (ft)			75,525.96

T20S R18E

T20S R19E

T20S R20E

T21S R19E

T21S R20E

Legend

- Professional Well Logs

AZGS Sites

- Support
- Consistent
- Inconclusive
- Cottonwood-Willow
- Mesquite-Salt Cedar
- Holocene Composite Active Floodplain
- FHA Delineation Step 1
- FHA Delineation Step 2
- FHA Delineation Step 3
- Townships
- Sections
- River

Holocene River Alluvium
- Active river channel deposits
- Flood channel & low terrace deposits
- Historical river terrace deposits
- Latest Holocene to historical river terrace deposits
- Late to early Holocene river terrace deposits

Holocene Tributary Stream Alluvium
- Modern stream channel deposits
- Latest Holocene Alluvium
- Late Holocene alluvium
- Older Holocene alluvium

Holocene Piedmont Alluvium

Disturbed Lands
- Disturbed
- Ditch
- Mining related

Pleistocene River Alluvium
- Late Pleistocene river terrace deposits
- Middle to late Plesitocene river terrace deposits
- Early to middle Pleistocene river terrace deposits
- Pleistocene river deposits
- Early Pleistocene river channel alluvium
- Quaternary hillslope talus & colluvium

Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

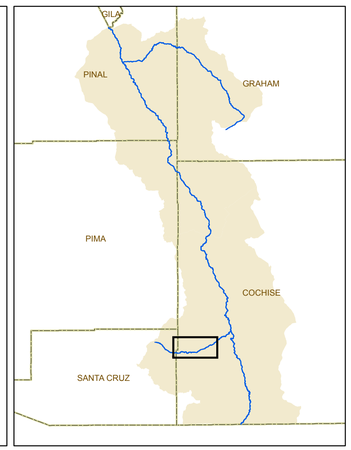
Tertiary Basin Fill Allivuium

Bedrock Units

Basemap: NAIP 2010
Scale: 1:24,000

N

0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

Babocomari River: RM 22-7

Map 16 of 17

2015 Supplemental
Sublflow Report

February 2015

ARIZONA DEPARTMENT OF WATER RESOURCES

T19S R20E

T19S R21E

T19S R22E

T20S R20E

T20S R22E

AZGS Site 11

LEFT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
5.1	4.3	Step 1	4,313.42
4.3	4.3	Step 1	57.52
4.3	4.1	Step 1	1,003.48
4.1	4.1	Step 1	28.61
4.1	4.1	Step 1	400.20
4.1	4.0	Step 1	39.19
4.0	4.0	Step 1	259.86
4.0	3.7	Step 1	1,748.32
3.7	3.3	Step 1	1,952.49
3.3	3.2	Step 1	603.82
3.2	3.2	Step 1	40.92
3.2	3.2	Step 1	3.02
3.2	0.9	Step 1	14,006.38
0.9	0.8	Step 1	218.28
0.8	0.5	Step 1	2,253.81
0.5	0.5	Step 1	384.77
0.5	0.5	Step 1	121.10
0.5	0.3	Step 2	373.18
0.3	0.3	Step 1	65.23
0.2	0.3	Step 2	1,632.30
0.2	0.1	Step 1	237.40
0.1	0.0	Step 1	355.74
0.0	0.0	Step 1	86.96
Total Length (ft)			30,186.01

RIGHT SIDE			
River Tenth Start	River Tenth End	FHA Delineation	Length (ft)
7.0	6.8	Step 1	946.19
6.8	6.4	Step 2	873.53
6.4	6.3	Step 1	1,353.49
6.3	6.3	Step 1	270.43
6.3	5.7	Step 1	1,780.12
5.7	5.7	Step 1	573.65
5.7	5.6	Step 1	468.87
5.6	4.9	Step 3	2,943.49
4.9	4.6	Step 2	1,208.93
4.6	4.5	Step 2	631.27
4.5	3.8	Step 1	3,601.92
3.8	3.8	Step 1	108.25
3.8	3.7	Step 1	658.41
3.7	3.3	Step 1	2,149.52
3.3	3.3	Step 1	71.43
3.3	3.0	Step 1	1,232.84
3.0	3.0	Step 1	102.01
3.0	2.9	Step 1	714.17
2.9	2.9	Step 1	90.09
2.9	1.6	Step 1	7,217.05
1.5	1.5	Step 2	2,110.70
1.4	0.5	Step 1	5,829.59
0.5	0.4	Step 1	910.03
0.4	0.4	Step 1	771.21
Total Length (ft)			36,617.18

Legend

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Pleistocene Piedmont Alluvium

Pleistocene Alluvium

Tertiary Piedmont Alluvium

Tertiary Basin Fill Allivuium

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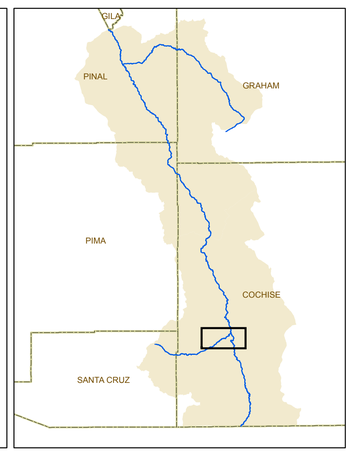
0 5,000 10,000 15,000
Feet



Appendix A
FHA Delineation Map Sheets

Babocomari River: RM 7-0

Map 17 of 17

2015 Supplemental
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