

A25-12923 Summary 11/11/03

General Comments Please see A25-00229 for comments general to all Lombard claims.

This is a beneficial use right that is acknowledged by neighbors Gary Mann and Red Humphries. Mann does not claim a water right from this source. Humphries claims A25-

Ownership Appears to be correct.

POB Waypoint 23, 712,418 E 227,246 N IDTM. Layout seems to have POB too far east.

POU Claim does not show quite as much area as my sketch (area "B2" on map in A25-00229). The tax notices do not appear to include the extra area I sketched but my sketch was based on what the claimant showed me. This may relate to the disputed property line between claimant and USFWS.

I propose checking w/ Clive Strong's

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Staff regarding property, like I inviting amended claim it appropriate.

Overlap West end may overlap w/ A25-00229. See overlap notes in that summary.

Conflict No conflict w/ Humphries. Humphries asserted they share water on an equal-priority basis (though Lombard has higher Q) and Lombard confirmed this. I don't know what conflict may appear w/ USFWS claims.

Priority No evidence in file. Claimant plans to send affidavits from his mother Tessie Lombard, Mr. Humphries, and a Mr. Collins. It will be important to recommend equal priority w/ Humphries.

Quantity Humphries acknowledges relative Q of his right and this right. Manning's calculation gave unreasonable results but culvert calculation confirms capacity for claimed Q. Acreage appears adequate for claimed Q.

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Water use As claimed.

List of Photos

A25-12923-1.jpg . POU from point ① on layout, looking SW

A25-12923-2.jpg POU from same point as photo 1, looking NW

A25-12923-3.jpg POU from another location, I think south of #152. looking generally west from the road.

A25-12923-4.jpg POD. culvert carries water to the streambed, the ditch goes to the right.

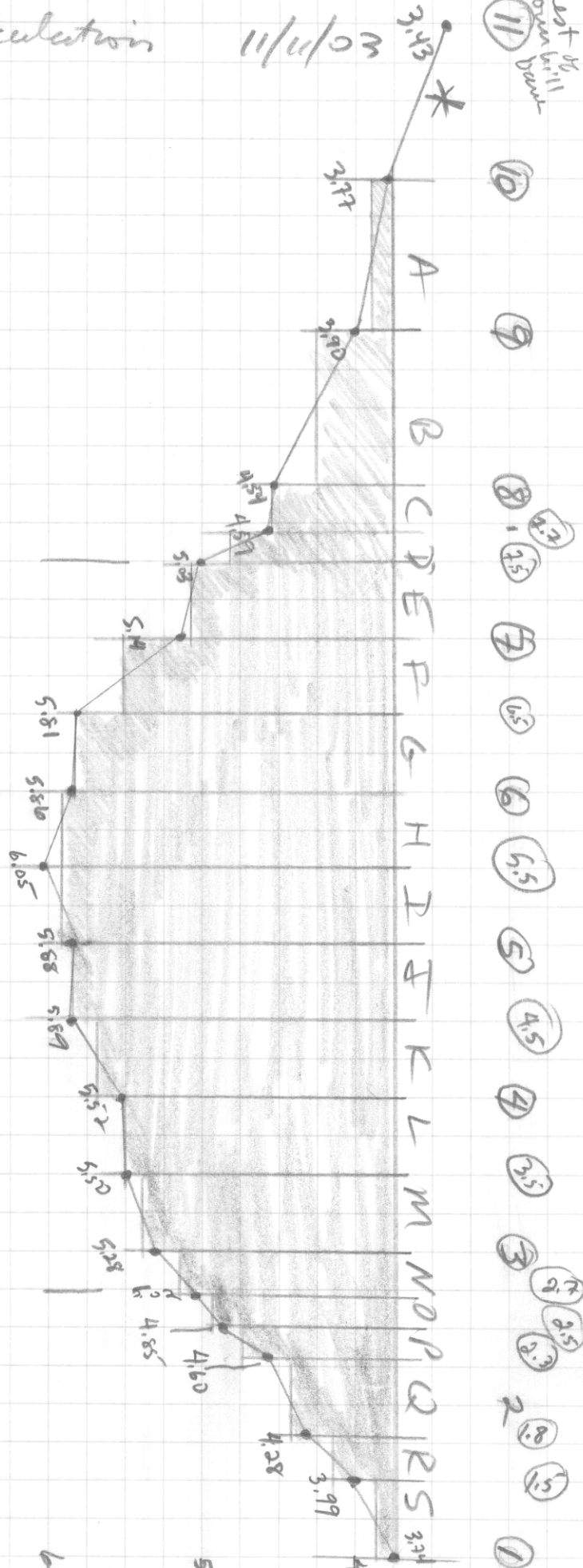
A25-12923-5.jpg Mannings location looking upstream, ⑤ on layout

Byron A. Contor

A25-12923 Mannings' Calculation

11/11/03

best of
downhill
11



left edge water

Right edge water

Right edge bank full

* Claimant says in the spring the ditch runs absolutely bank full but this does not seem sustainable so I have assumed ≈ 0.34 ft freeboard which seems to match the uphill bank full at ①.

A25-12923 Manning's p2 11/11/03

$$A \quad \frac{(3.77 - 3.74) + (3.90 - 3.74)}{2} \times (10 - 9) = 0.095 \text{ ft}^2$$

$$B \quad \frac{(3.90 - 3.74) + (4.54 - 3.74)}{2} \times (9 - 8) = 0.480$$

$$C \quad \frac{(4.54 - 3.74) + (4.59 - 3.74)}{2} \times (8 - 7.7) = 0.413$$

$$D \quad \frac{(4.59 - 3.74) + (5.03 - 3.74)}{2} \times (7.7 - 7.5) = \cancel{0.535} \quad 0.214$$

$$E \quad \frac{(5.03 - 3.74) + (5.14 - 3.74)}{2} \times (7.5 - 7.0) = 0.673$$

$$F \quad \frac{(5.14 - 3.74) + (5.81 - 3.74)}{2} \times (7.0 - 6.5) = 0.868$$

$$G \quad \frac{(5.81 - 3.74) + (5.86 - 3.74)}{2} \times (6.5 - 6.0) = 1.0475$$

$$H \quad \frac{(5.86 - 3.74) + (6.05 - 3.74)}{2} \times (6.0 - 5.5) = 1.108$$

$$I \quad \frac{(6.05 - 3.74) + (5.88 - 3.74)}{2} \times (5.5 - 5.0) = 1.113$$

$$J \quad \frac{(5.88 - 3.74) + (5.89 - 3.74)}{2} \times (5.0 - 4.5) = 1.073$$

$$K \quad \frac{(5.89 - 3.74) + (5.52 - 3.74)}{2} \times (4.5 - 4.0) = 0.983$$

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$$L \quad \frac{(5.52 - 3.74) + (5.50 - 3.74)}{2} \times (4.0 - 3.5) = 0.885 \text{ ft}^2$$

$$M \quad \frac{(5.50 - 3.74) + (5.28 - 3.74)}{2} \times (3.5 - 3.0) = 0.825$$

$$N \quad \frac{(5.28 - 3.74) + (5.02 - 3.74)}{2} \times (3.0 - 2.7) = 0.423$$

$$O \quad \frac{(5.02 - 3.74) + (4.85 - 3.74)}{2} \times (2.7 - 2.5) = 0.239$$

$$P \quad \frac{(4.85 - 3.74) + (4.60 - 3.74)}{2} \times (2.5 - 2.3) = 0.197$$

$$Q \quad \frac{(4.60 - 3.74) + (4.28 - 3.74)}{2} \times (2.3 - \frac{1.8}{2.0}) = 0.350$$

$$R \quad \frac{(4.28 - 3.74) + (3.99 - 3.74)}{2} \times (\frac{1.8}{2.0} - \frac{1.5}{1.8}) = 0.119$$

$$S \quad \frac{(3.99 - 3.74)}{2} \times (1.5 - 1.0) = 0.063$$

$$\Sigma = 11.17 \text{ ft}^2$$

Wetted perimeter measured w/ ruler

A	1"	1'	G	0.5 ft	N	0.40
B		1.1 ft	H	0.55 ft	O	~~0.28~~ ft
C		0.3 ft	I	0.6 ft	P	0.28 ft
D		0.5 ft	J	0.5 ft	Q	0.40 ft
E		0.5 ft	K	0.5 ft	R	0.60 ft
F		0.8 ft	L	0.6 ft	R	0.42 ft
			M	0.5 ft	S	0.60 ft
					Σ	<u>10.7 ft</u>

A25-12923 Manning's Calc p 4

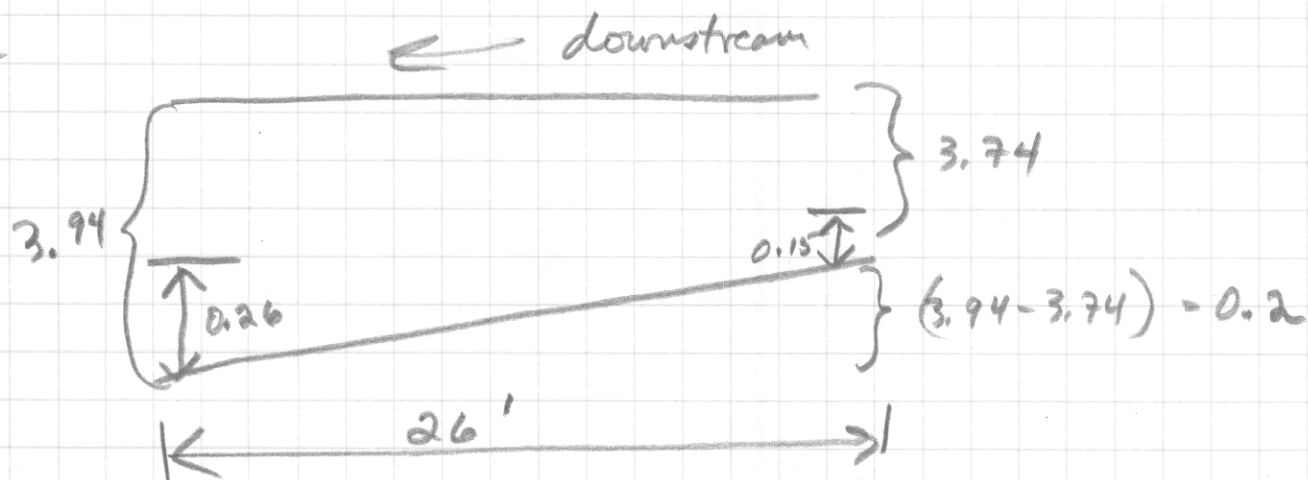
11/11/03

$$\text{Area} = 11.17 \text{ ft}^2$$

$$\text{WP} = 10.7 \text{ ft}$$

$$\text{HR} = \text{Area} / \text{WP} = 11.17 \text{ ft} / 10.7 \text{ ft} = 1.044 \text{ ft}$$

Slope



$$\frac{(0.20 + 0.15) - 0.26}{26} = 0.0035$$

Manning's n from Perry Civil Engineering 1959

earth, some weeds 0.025 - 0.030

earth, dense weeds 0.030 0.040

earth, cobble bottom 0.030 0.040

rock, jagged 0.040 0.045

0.035 seems a reasonable mid range.

A25-12923 Manning's Calc. p5 11/11/03

$$Q = \frac{1.486}{n} A R^{2/3} S^{1/2} \quad \left(\text{Bureau Rec.} \right. \\ \left. \text{Water Meas. manual} \right. \\ \left. p 170 \right)$$

$$Q = \frac{1.486}{0.035} (1.17) (1.044)^{2/3} (0.0035)^{1/2} \\ = 29 \text{ cfs.}$$

This is unreasonably high. The water comes under the road in what appears to be a 24" culvert. There is some washing but not much, 3 feet/second is a likely velocity. $Q = AV = \pi(1^2)(3 \text{ ft/s}) = 9.4 \text{ ft}^3/\text{s}$

(field notes 10/22/03)

Tessie Lombard Mannings Equation

	width	elevation
Right Edge-bank full	1.0	3.74
	1.5	3.99
	1.8	4.28
	2.3	4.60
	2.5	4.85
RT EDGE WATER	2.7	5.02
	3.0	5.28
	3.5	5.50
	4.0	5.52
	4.5	5.10 $\frac{5}{8}$ "
	5.0	5'-10 $\frac{1}{2}$ "
	5.5	6'- $\frac{5}{8}$ "
	6.0	5.10 $\frac{3}{4}$ "
	6.5	5.9 $\frac{3}{4}$ "
	7.0	5.14
LEFT EDGE WATER	7.5	5.03
	7.7	4.59
	8.0	4.54
	8.5	4.32
	9.0	3.99
	10.0	3.77
	11.0	3.43
LEFT BANK FULL		
(up STREAM)	3.78	0.15
(DOWN STREAM)	3.94	0.26

STICK
26 FT DISTANCE

WATER

Water Resources
Field Services
208 663 4667

Water Resources
Field Services
208 663 4667

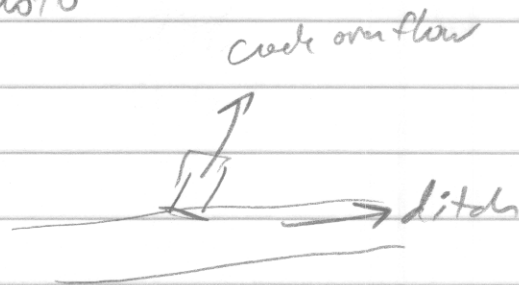
A25-12923 field 10/23/03

2? Photos - culvert, POA,

POD in Manas Canal

GPS Waypoint 23 712,418 E 227,296 N

1 photo



See note in A25-02092 re: Mr. Lombard
confirms Reel Humphries start about
shared priority.