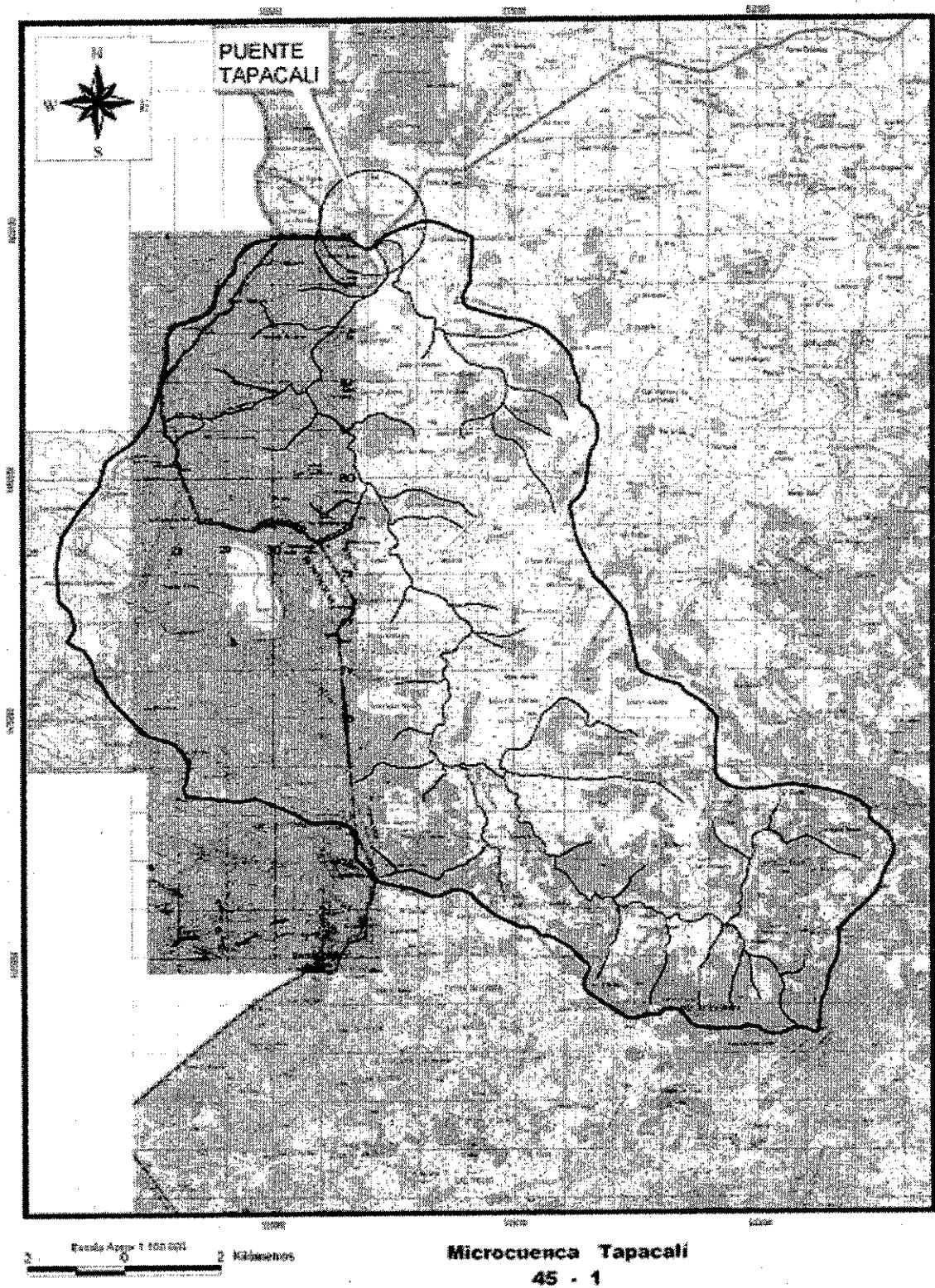


Esc. Aproximada 1 : 75 000  
1 0 1 2 Kilómetros

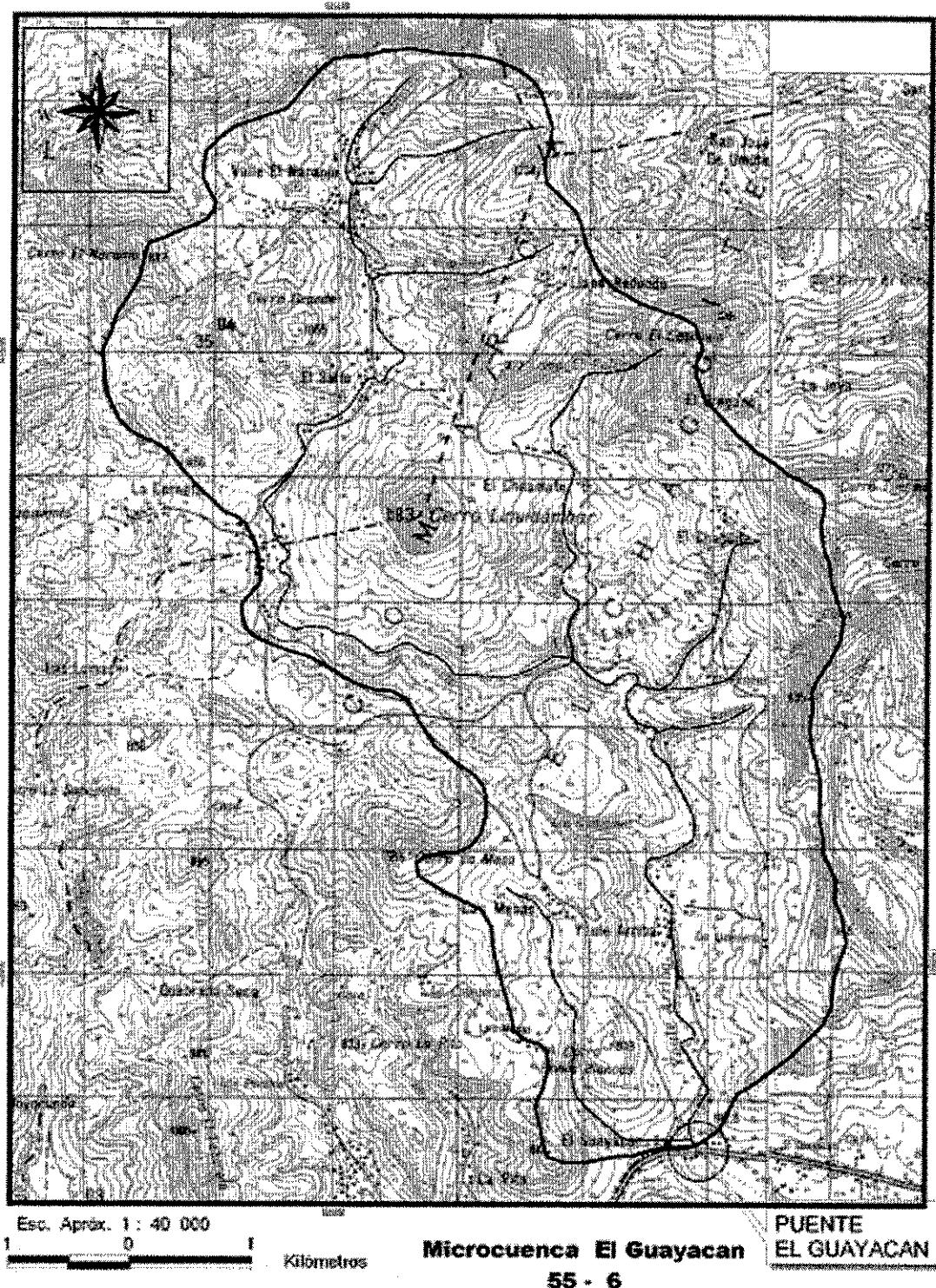
### Microcuenca Inali

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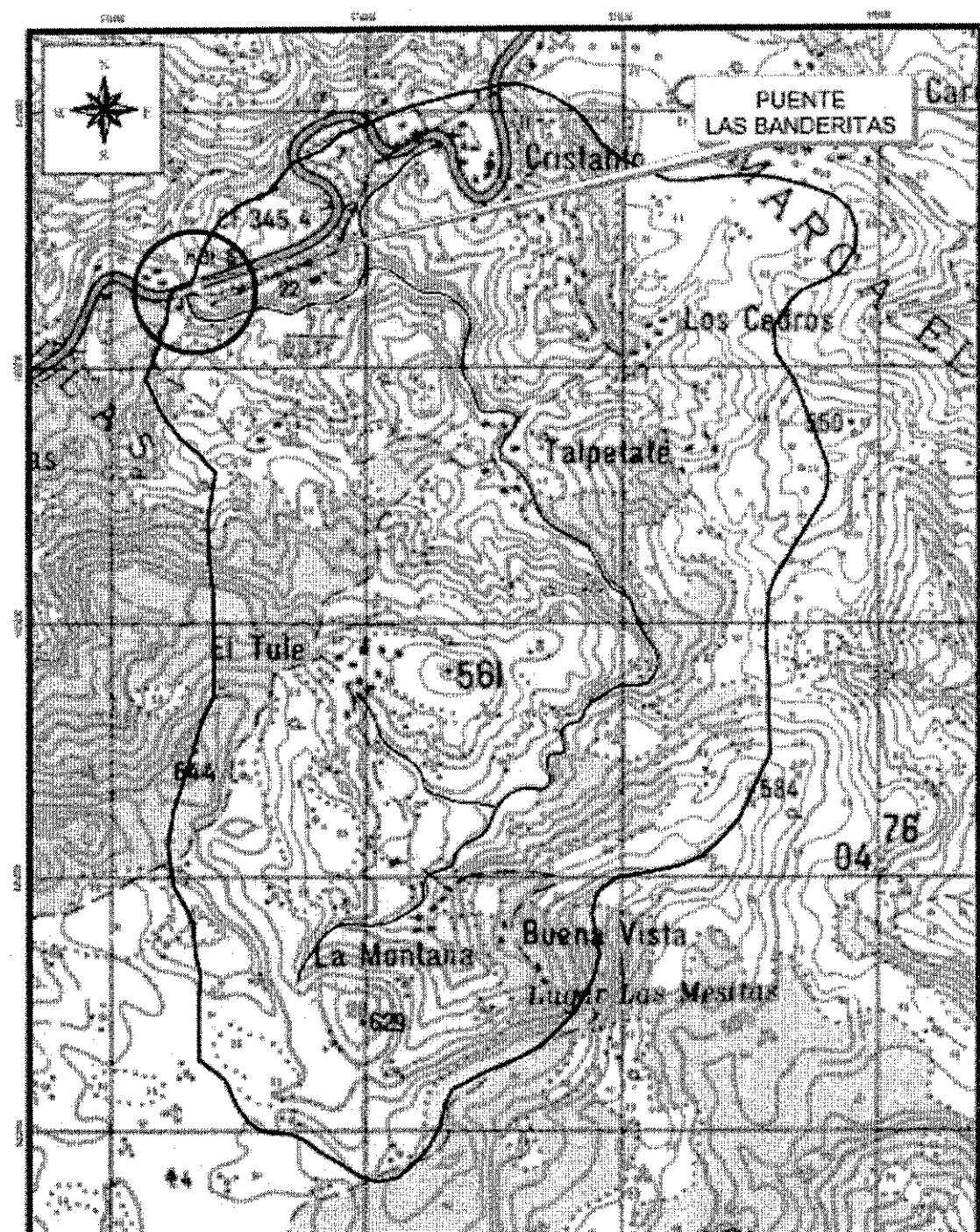
Watershed Rio Inali



Watershed Rio Tapacali



## Watershed El Guayacan

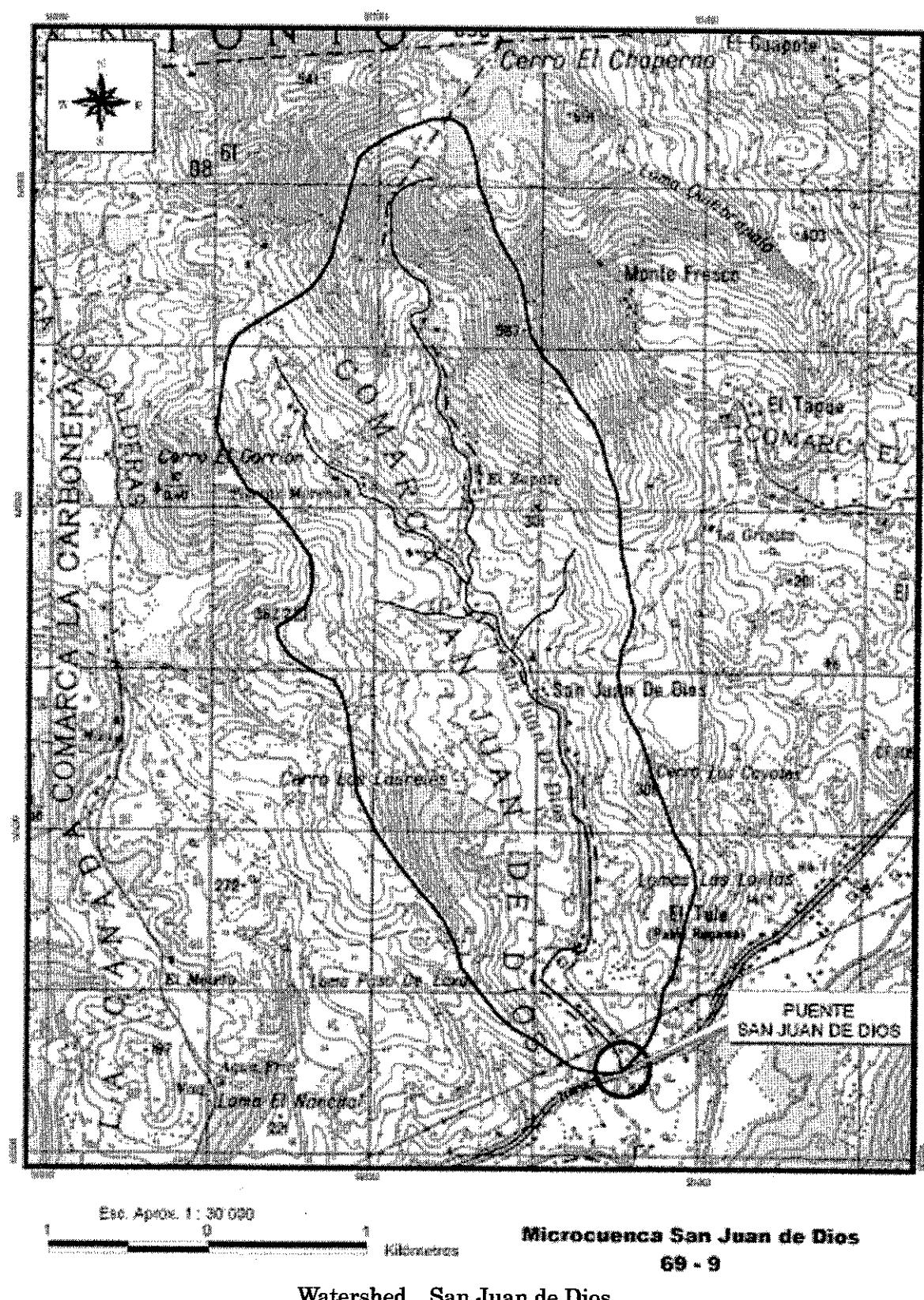


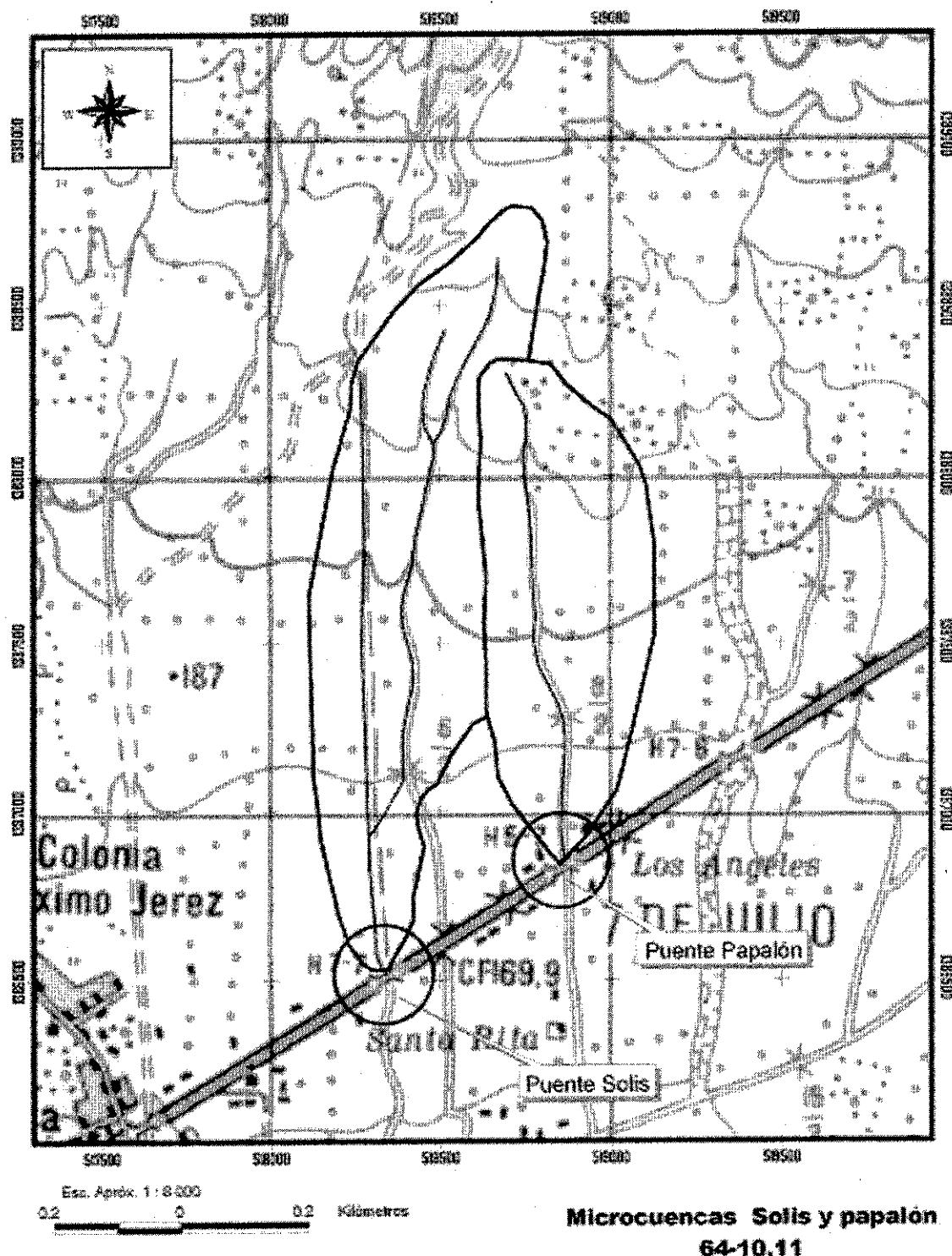
Esc. Apróx. 1 : 20 000  
0.5 0 0.5 Kilómetros

### **Microcuenca Las Banderitas**

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**Watershed Las Banderita**





Watershed Rio Inali

## **Appendix A4**

### **Data for AHP (Chapter 14)**

- A4.1 *The Analysis Result Table by the AHP*
- A4.2 *The Comparison Table of the Importance*
- A4.3 *An Evaluation Points for Restoration Level*
- A4.4 *Development Situation and an  
Evaluation Points*
- A4.5 *Review of Score of Stability Survey*



## A.4.1 The analysis result table by the AHP

			Evaluation Criteria			Stability level	Traffic volume	Environmental evaluation	Natural condition	Benefit B/C	Restoration level	Development situation
			Weight of each Evaluation Criteria			0.3668	0.1673	0.0839	0.1800	0.0383	0.1430	0.0207
Route No.	Type of Disaster	Serial Number of Disaster Critical Spots	Analysis result			Weight of each Alternative Spots						
			Weight	Rank	* Judgment	Stability level	Traffic volume	Environmental evaluation	Natural condition	Benefit B/C	Restoration level	Development situation
Nic1	R.F.	1	0.0211	15	D.P.S.	0.0110	0.0330	0.0449	0.0322	0.0168	0.0054	0.0246
	R.F.	2	0.0226	10	D.P.S.	0.0215	0.0324	0.0186	0.0322	0.0178	0.0054	0.0246
	Bridge	3	0.0209	16	D.P.S.	0.0276	0.0269	0.0071	0.0141	0.0517	0.0065	0.0114
	Bridge	4	0.0279	7	D.P.S.	0.0527	0.0269	0.0071	0.0028	0.0482	0.0065	0.0114
	Bridge	5	0.0220	12	D.P.S.	0.0276	0.0242	0.0186	0.0141	0.0276	0.0149	0.0237
	Bridge	6	0.0314	3	D.P.S.	0.0527	0.0242	0.0449	0.0028	0.0459	0.0105	0.0237
	R.F.	7	0.0189	23	D.P.S.	0.0215	0.0242	0.0186	0.0141	0.0070	0.0149	0.0237
	R.C.	8	0.0176	29	D.P.S.	0.0090	0.0242	0.0186	0.0299	0.0097	0.0171	0.0237
	R.C.	9	0.0125	44		0.0083	0.0242	0.0186	0.0028	0.0089	0.0171	0.0237
	R.C.	10	0.0131	42		0.0083	0.0242	0.0186	0.0068	0.0072	0.0171	0.0237
	R.C.	11	0.0175	30	D.P.S.	0.0162	0.0242	0.0186	0.0141	0.0109	0.0171	0.0237
	R.C.	12	0.0187	24	D.P.S.	0.0122	0.0242	0.0186	0.0322	0.0178	0.0116	0.0237
	R.C.	13	0.0183	26	D.P.S.	0.0094	0.0242	0.0186	0.0322	0.0129	0.0171	0.0237
	R.F.	14	0.0174	31		0.0094	0.0242	0.0186	0.0299	0.0088	0.0149	0.0237
	R.C.	15	0.0137	40		0.0089	0.0242	0.0186	0.0068	0.0168	0.0171	0.0237
	R.C.	16	0.0164	34		0.0094	0.0242	0.0071	0.0299	0.0206	0.0116	0.0237
	R.F.	17	0.0148	35		0.0070	0.0186	0.0186	0.0322	0.0083	0.0065	0.0246
	Bridge	18	0.0284	6	D.P.S.	0.0527	0.0052	0.0449	0.0068	0.0268	0.0116	0.0246
	Bridge	19	0.0285	5	D.P.S.	0.0527	0.0052	0.0449	0.0028	0.0278	0.0171	0.0246
	R.C.	20	0.0113	50		0.0090	0.0052	0.0186	0.0141	0.0091	0.0149	0.0246
	R.F.	21	0.0090	52		0.0089	0.0052	0.0186	0.0028	0.0160	0.0116	0.0246
	R.F.	22	0.0089	53		0.0089	0.0052	0.0186	0.0068	0.0148	0.0065	0.0246
Nic3	R.C.	23	0.0144	37		0.0090	0.0256	0.0071	0.0028	0.0341	0.0290	0.0090
	R.C.	24	0.0201	19	D.P.S.	0.0090	0.0256	0.0186	0.0299	0.0304	0.0290	0.0090
	R.C.	25	0.0214	14	D.P.S.	0.0147	0.0256	0.0186	0.0299	0.0428	0.0210	0.0090
	Bridge	26	0.0371	1	D.P.S.	0.0527	0.0256	0.0186	0.0322	0.0598	0.0253	0.0090
	R.C.	27	0.0186	25	D.P.S.	0.0094	0.0256	0.0036	0.0299	0.0223	0.0290	0.0090
	R.C.	28	0.0111	51		0.0083	0.0102	0.0071	0.0068	0.0068	0.0290	0.0043
	S.S.	29	0.0177	28	D.P.S.	0.0089	0.0102	0.0071	0.0322	0.0041	0.0423	0.0043
	D.F.	30	0.0217	13	D.P.S.	0.0198	0.0102	0.0071	0.0322	0.0051	0.0423	0.0043
	S.S.	31	0.0169	32		0.0074	0.0102	0.0036	0.0322	0.0061	0.0423	0.0043
	S.S.	32	0.0252	8	D.P.S.	0.0276	0.0102	0.0186	0.0299	0.0072	0.0423	0.0043
	S.S.	33	0.0229	9	D.P.S.	0.0276	0.0102	0.0071	0.0322	0.0111	0.0290	0.0043
Nic5	R.C.	34	0.0167	33		0.0198	0.0102	0.0071	0.0141	0.0079	0.0290	0.0043
	R.F.	35	0.0198	21	D.P.S.	0.0147	0.0101	0.0071	0.0322	0.0068	0.0423	0.0027
Nic15	D.F.	36	0.0117	47		0.0070	0.0053	0.0022	0.0322	0.0061	0.0105	0.0258
	D.F.	37	0.0117	48		0.0070	0.0053	0.0024	0.0322	0.0053	0.0105	0.0258
	D.F.	38	0.0076	55		0.0070	0.0053	0.0071	0.0068	0.0075	0.0105	0.0258
	D.F.	39	0.0082	54		0.0070	0.0053	0.0071	0.0068	0.0064	0.0149	0.0258
Nic26	R.F.	40	0.0138	39		0.0074	0.0207	0.0186	0.0141	0.0155	0.0171	0.0246
	R.F.	41	0.0147	36		0.0070	0.0207	0.0186	0.0141	0.0129	0.0253	0.0246
	R.F.	42	0.0115	49		0.0074	0.0207	0.0186	0.0028	0.0088	0.0171	0.0246
	R.F.	43	0.0120	45		0.0083	0.0207	0.0186	0.0028	0.0129	0.0171	0.0246
	R.F.	44	0.0183	27	D.P.S.	0.0110	0.0207	0.0186	0.0322	0.0118	0.0171	0.0246
	Bridge	45	0.0319	2	D.P.S.	0.0527	0.0207	0.0449	0.0028	0.0200	0.0253	0.0246
	R.F.	46	0.0142	38		0.0110	0.0183	0.0186	0.0141	0.0223	0.0116	0.0246
	R.C.	47	0.0127	43		0.0089	0.0183	0.0186	0.0028	0.0200	0.0210	0.0246
	R.F.	48	0.0134	41		0.0083	0.0183	0.0186	0.0141	0.0276	0.0116	0.0246
	R.C.	49	0.0199	20	D.P.S.	0.0147	0.0183	0.0071	0.0322	0.0111	0.0290	0.0246
	R.F.	50	0.0223	11	D.P.S.	0.0232	0.0183	0.0186	0.0322	0.0107	0.0171	0.0246
	R.C.	51	0.0194	22	D.P.S.	0.0228	0.0183	0.0071	0.0322	0.0155	0.0054	0.0090
	Bridge	52	0.0207	17	D.P.S.	0.0276	0.0199	0.0449	0.0068	0.0304	0.0065	0.0090
	R.C.	53	0.0119	46		0.0074	0.0199	0.0071	0.0141	0.0111	0.0149	0.0090
	Bridge	54	0.0204	18	D.P.S.	0.0276	0.0207	0.0449	0.0028	0.0373	0.0065	0.0090
	Bridge	55	0.0293	4	D.P.S.	0.0527	0.0207	0.0449	0.0028	0.0304	0.0065	0.0090

#### A.4.2 The Comparison table of the importance of Alternative Spots in stability level

Maximum peculiar value  $\lambda_{\max} = 56.857$   
 The index of adjustment  $C_1 = 0.0344$

#### A.4.2 The Comparison table of the importance of Alternative Spots in Traffic volume

#### A.4.2 The Comparison table of the importance of Alternative Spots in Environmental evaluation

#### A.4.2 The Comparison table of the importance of Alternative Spots in Natural condition

#### A.4.2 The Comparison table of the importance of Alternative Spots in Benefit B/C

Maximum peculiar value  $\lambda_{\max} = 58.457$   
The index of adjustment  $G_1 \equiv 0.064$

#### A.4.2 The Comparison table of the importance of Alternative Spots in Restoration level

#### 4.2 The Comparison table of the importance of Alternative Spots in Development situation