

REGIONE
BASILICATA



PROVINCIA DI
POTENZA



COMUNE DI
SANT'ARCANGELO

OGGETTO:

PROGETTO DEFINITIVO PER LA REALIZZAZIONE DI UN PARCO AGRI-VOLTAICO A TERRA "SANT'ARC. 1" DELLA POTENZA NOMINALE DI 39.90 MW LOCALITA' "MONTICELLI" NEL COMUNE DI SANT'ARCANGELO (PZ)

ELABORATO:

REPORT ANALISI IDROLOGICA- BACINI IDROGRAFICI



PROPONENTE:

COMPAGNIA DEL SOLE TRE S.R.L.
P.IVA IT04320520986
VIA ALDO MORO, 28
25043- BRENO (BS)

PROGETTAZIONE:

Ing. Carmen Martone
Iscr. n. 1872
Ordine Ingegneri Potenza
C.F. MRTCMN73D56H703E

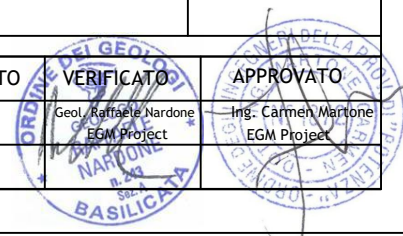


Geol. Raffaele Nardone
Iscr. n. 243
Ordine Geologi Basilicata
C.F. NRDRFL71H04A509H



EGM PROJECT S.R.L.
VIA VERRASTRO 15/A
85100- POTENZA (PZ)
P.IVA 02094310766
REA PZ-206983

Livello prog.	Cat. opera	N° . prog.elaborato	Tipo elaborato	N° foglio	Tot. fogli	Nome file	Scala
PD	I.IF	A.3.1	R				
REV.	DATA	DESCRIZIONE			ESEGUITO	VERIFICATO	APPROVATO
01	DICEMBRE 2023	Emissione				Geol. Raffaele Nardone EGM Project	Ing. Carmen Martone EGM Project

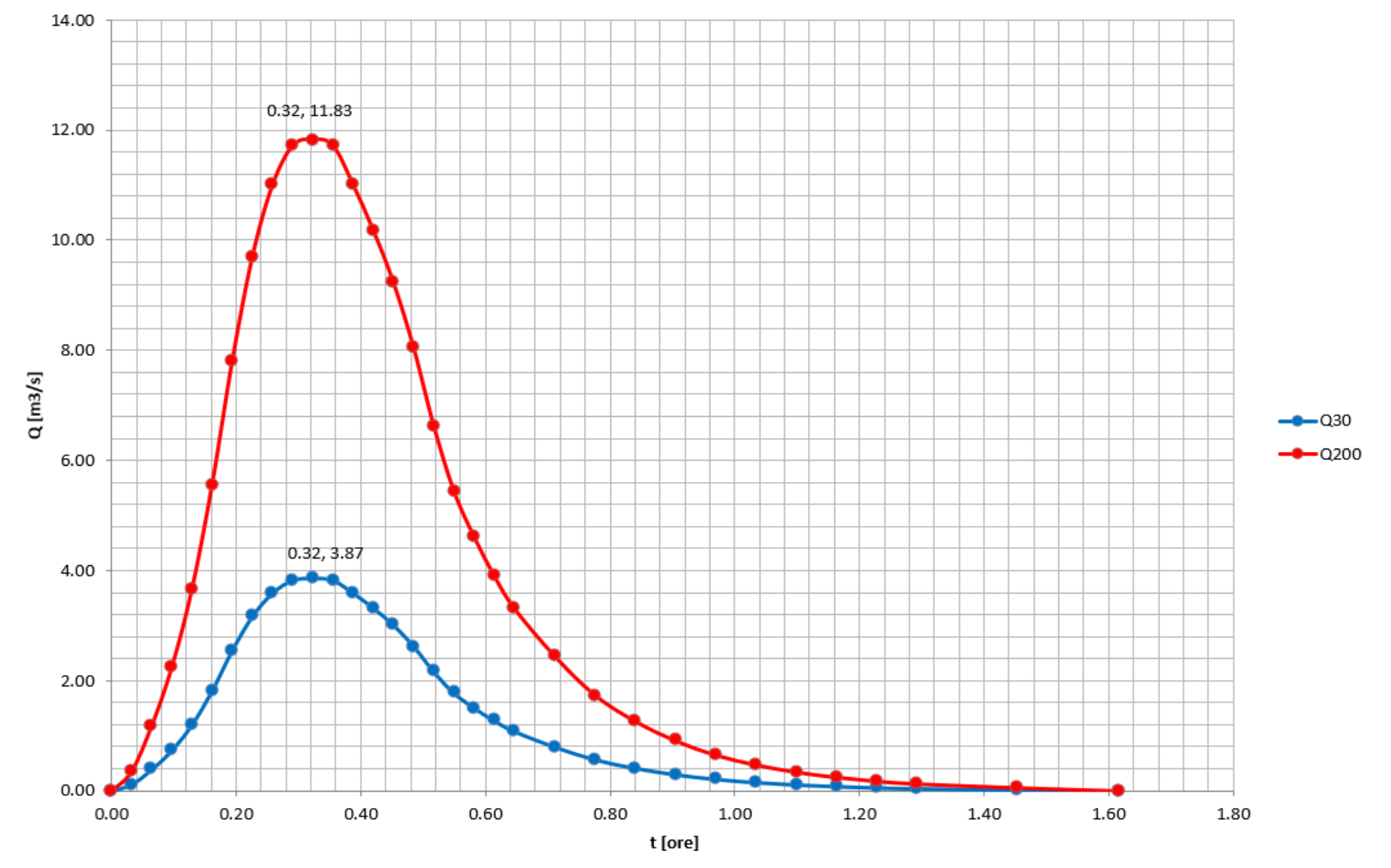


REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

BACINO 1																
PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
m ²	km ²	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
909219.24	0.91	238.20	421.86	183.66	308.51	0.50	90.00	89.50	23.82	80.53	90.58	61.42	26.41	0.61	1.698	10.81%

t(h)	Q30	Q200
0.00	0.00	0.00
0.03	0.12	0.35
0.06	0.39	1.18
0.10	0.73	2.25
0.13	1.20	3.67
0.16	1.82	5.56
0.19	2.55	7.81
0.23	3.17	9.70
0.26	3.60	11.00
0.29	3.83	11.71
0.32	3.87	11.83
0.36	3.83	11.71
0.39	3.60	11.00
0.42	3.32	10.17
0.45	3.02	9.23
0.48	2.63	8.04
0.52	2.16	6.62
0.55	1.78	5.44
0.58	1.51	4.61
0.61	1.28	3.90
0.65	1.08	3.31
0.71	0.80	2.45
0.78	0.57	1.74
0.84	0.41	1.27
0.91	0.30	0.91
0.97	0.21	0.65
1.03	0.15	0.47
1.10	0.11	0.34
1.16	0.08	0.25
1.23	0.06	0.18
1.29	0.04	0.13
1.45	0.02	0.06
1.62	0.00	0.00

	a	n	t _i [ore]	t _p =t _c [ore]	t _a [ore]	h(t _c)	V[mm]	Q _p [m ³ /s]
T30	35.02	0.372	0.18	0.29	0.32	22.20	6.61	3.87
T200	64.05	0.372				40.61	20.22	11.83

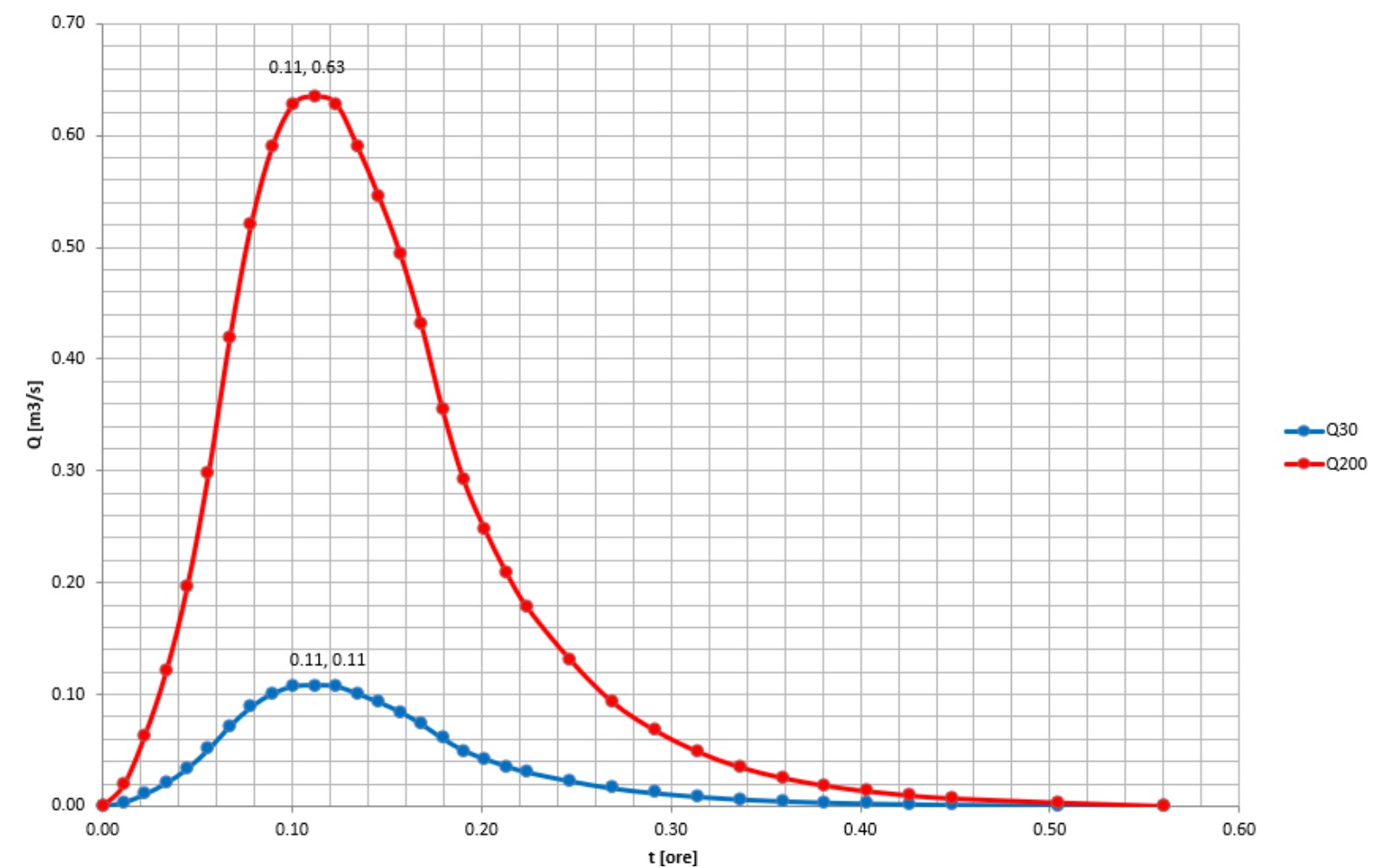


REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

BACINO 2																
PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
52241.20	0.05	256.68	367.41	110.73	300.33	1.03	90.00	88.97	25.72	73.67	86.68	90.76	39.03	0.31	0.392	28.24%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.00	0.02
0.02	0.01	0.06
0.03	0.02	0.12
0.04	0.03	0.20
0.06	0.05	0.30
0.07	0.07	0.42
0.08	0.09	0.52
0.09	0.10	0.59
0.10	0.11	0.63
0.11	0.11	0.63
0.12	0.11	0.63
0.13	0.10	0.59
0.15	0.09	0.55
0.16	0.08	0.49
0.17	0.07	0.43
0.18	0.06	0.36
0.19	0.05	0.29
0.20	0.04	0.25
0.21	0.04	0.21
0.22	0.03	0.18
0.25	0.02	0.13
0.27	0.02	0.09
0.29	0.01	0.07
0.31	0.01	0.05
0.34	0.01	0.03
0.36	0.00	0.03
0.38	0.00	0.02
0.40	0.00	0.01
0.43	0.00	0.01
0.45	0.00	0.01
0.50	0.00	0.00
0.56	0.00	0.00

	a	n	t _i [ore]	t _p =t _c [ore]	t _a [ore]	h(t _c)	V [mm]	Q _p [m ³ /s]
T30	35.02	0.372	0.06	0.10	0.11	14.98	1.11	0.11
T200	64.05	0.372				27.39	6.55	0.63

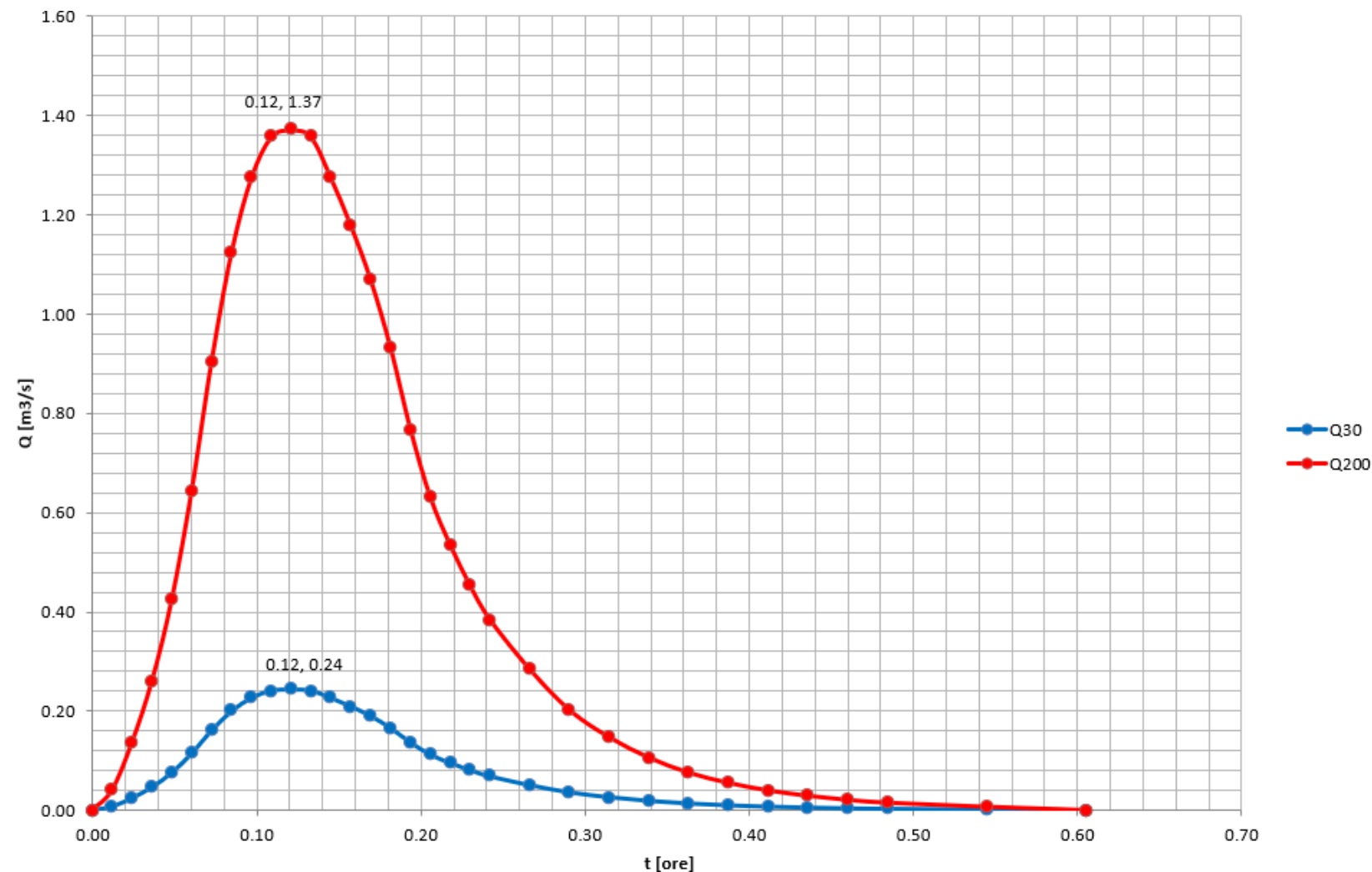


REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

BACINO 3																
PARAMETRI MORFOMETRICI																
VERSANTE															ASTA PRINCIPALE	
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
m ²	km ²	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
114115.54	0.11	260.56	368.86	108.30	318.71	2.32	68.27	65.95	24.61	73.67	86.68	90.76	39.03	0.31	0.420	25.78%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.01	0.04
0.02	0.02	0.14
0.04	0.05	0.26
0.05	0.08	0.42
0.06	0.11	0.64
0.07	0.16	0.90
0.08	0.20	1.12
0.10	0.23	1.27
0.11	0.24	1.36
0.12	0.24	1.37
0.13	0.24	1.36
0.15	0.23	1.27
0.16	0.21	1.18
0.17	0.19	1.07
0.18	0.17	0.93
0.19	0.14	0.77
0.21	0.11	0.63
0.22	0.09	0.53
0.23	0.08	0.45
0.24	0.07	0.38
0.27	0.05	0.28
0.29	0.04	0.20
0.31	0.03	0.15
0.34	0.02	0.11
0.36	0.01	0.08
0.39	0.01	0.05
0.41	0.01	0.04
0.44	0.01	0.03
0.46	0.00	0.02
0.48	0.00	0.02
0.55	0.00	0.01
0.61	0.00	0.00

	a	n	t _i [ore]	t _p =t _c [ore]	t _a [ore]	h(t _c)	V[mm]	Q _p [m ³ /s]
T30	35.02	0.372	0.07	0.11	0.12	15.41	1.24	0.24
T200	64.05	0.372				28.19	6.99	1.37

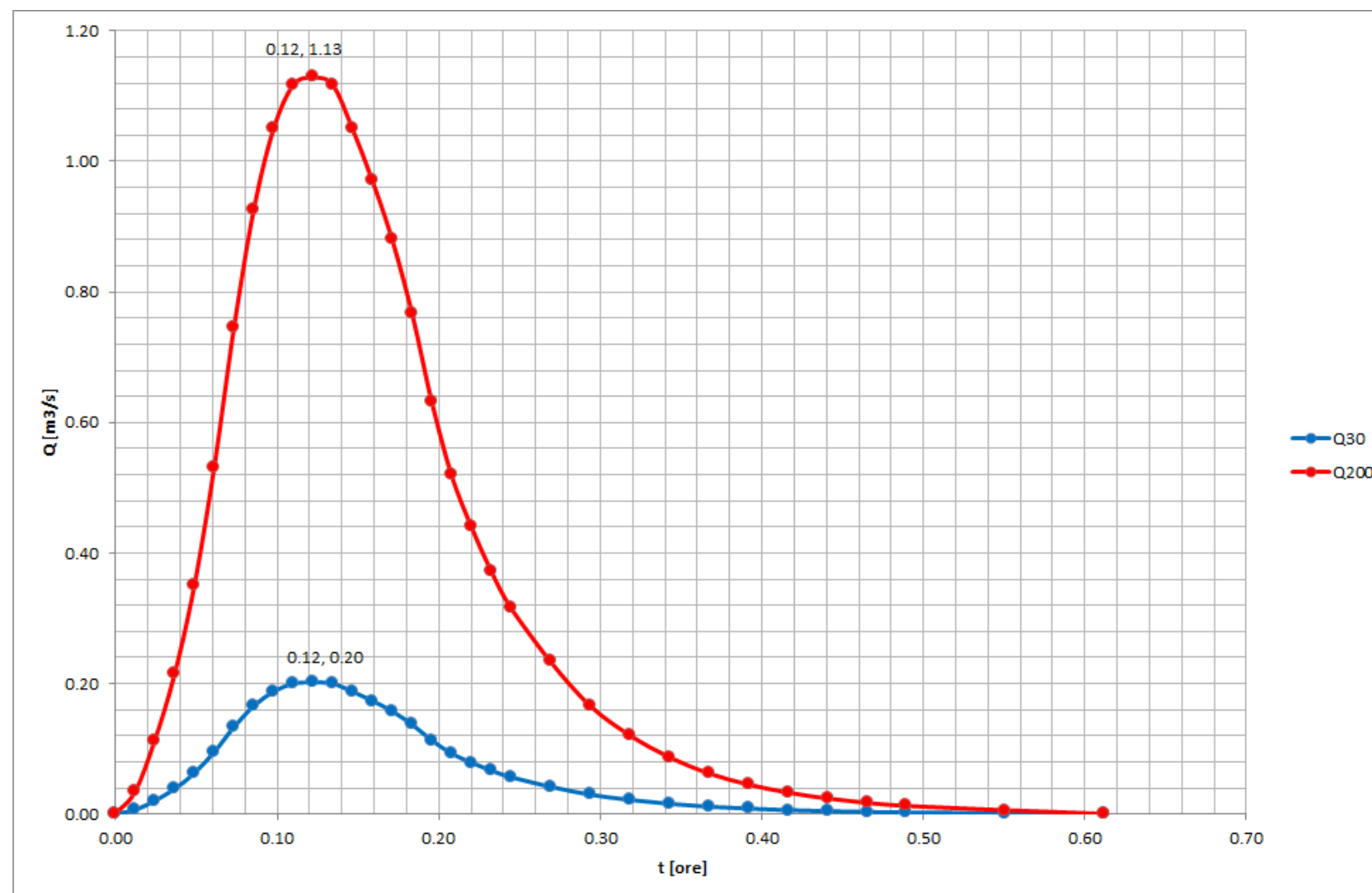


REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

BACINO 4																
PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
94152.90	0.09	265.84	401.59	135.75	335.38	4.26	74.18	69.92	24.09	73.67	86.68	90.76	39.03	0.31	0.420	32.32%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.01	0.03
0.02	0.02	0.11
0.04	0.04	0.21
0.05	0.06	0.35
0.06	0.09	0.53
0.07	0.13	0.75
0.09	0.17	0.93
0.10	0.19	1.05
0.11	0.20	1.12
0.12	0.20	1.13
0.13	0.20	1.12
0.15	0.19	1.05
0.16	0.17	0.97
0.17	0.16	0.88
0.18	0.14	0.77
0.20	0.11	0.63
0.21	0.09	0.52
0.22	0.08	0.44
0.23	0.07	0.37
0.24	0.06	0.32
0.27	0.04	0.23
0.29	0.03	0.17
0.32	0.02	0.12
0.34	0.02	0.09
0.37	0.01	0.06
0.39	0.01	0.05
0.42	0.01	0.03
0.44	0.00	0.02
0.47	0.00	0.02
0.49	0.00	0.01
0.55	0.00	0.01
0.61	0.00	0.00

	a	n	t _i [ore]	t _p =t _c [ore]	t _a [ore]	h(t _c)	V[mm]	Q _p [m ³ /s]
T30	35.02	0.372	0.07	0.11	0.12	15.47	1.26	0.20
T200	64.05	0.372				28.30	7.06	1.13

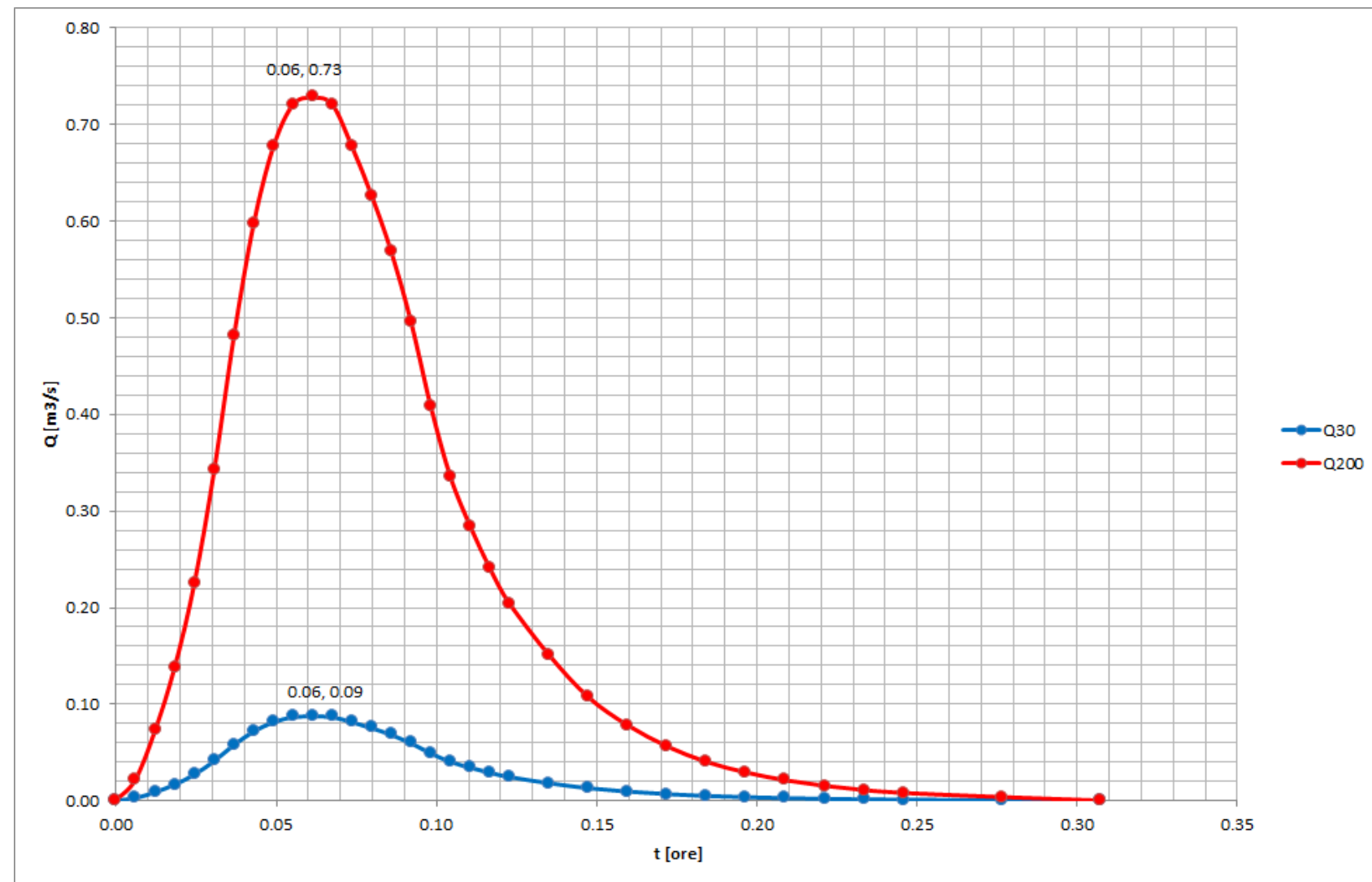


REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

BACINO 5																
PARAMETRI MORFOMETRICI																
VERSANTE														ASTA PRINCIPALE		
Superficie		quote				pendenze				SCS				ϕ	lunghezza	pendenza media
		min	max	range	media	min	max	range	media	CN _{II}	CN _{III}	S _{II}	S _{III}			
mq	kmq	m.s.l.m.	m.s.l.m.	m.s.l.m.	m.s.l.m.	%	%	%	%						km	m/m
53352.72	0.05	284.05	393.68	109.63	344.14	2.70	96.00	93.30	25.18	74.55	87.20	86.71	37.29	0.33	0.187	58.68%

t(h)	Q30	Q200
0.00	0.00	0.00
0.01	0.00	0.02
0.01	0.01	0.07
0.02	0.02	0.14
0.02	0.03	0.23
0.03	0.04	0.34
0.04	0.06	0.48
0.04	0.07	0.60
0.05	0.08	0.68
0.06	0.09	0.72
0.06	0.09	0.73
0.07	0.09	0.72
0.07	0.08	0.68
0.08	0.08	0.63
0.09	0.07	0.57
0.09	0.06	0.50
0.10	0.05	0.41
0.10	0.04	0.33
0.11	0.03	0.28
0.12	0.03	0.24
0.12	0.02	0.20
0.14	0.02	0.15
0.15	0.01	0.11
0.16	0.01	0.08
0.17	0.01	0.06
0.18	0.00	0.04
0.20	0.00	0.03
0.21	0.00	0.02
0.22	0.00	0.02
0.23	0.00	0.01
0.25	0.00	0.01
0.28	0.00	0.00
0.31	0.00	0.00

	a	n	t _i [ore]	t _p =t _c [ore]	t _a [ore]	h(t _c)	V [mm]	Q _p [m ³ /s]
T30	35.02	0.372	0.03	0.06	0.06	11.97	0.49	0.09
T200	64.05	0.372				21.90	4.03	0.73



REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

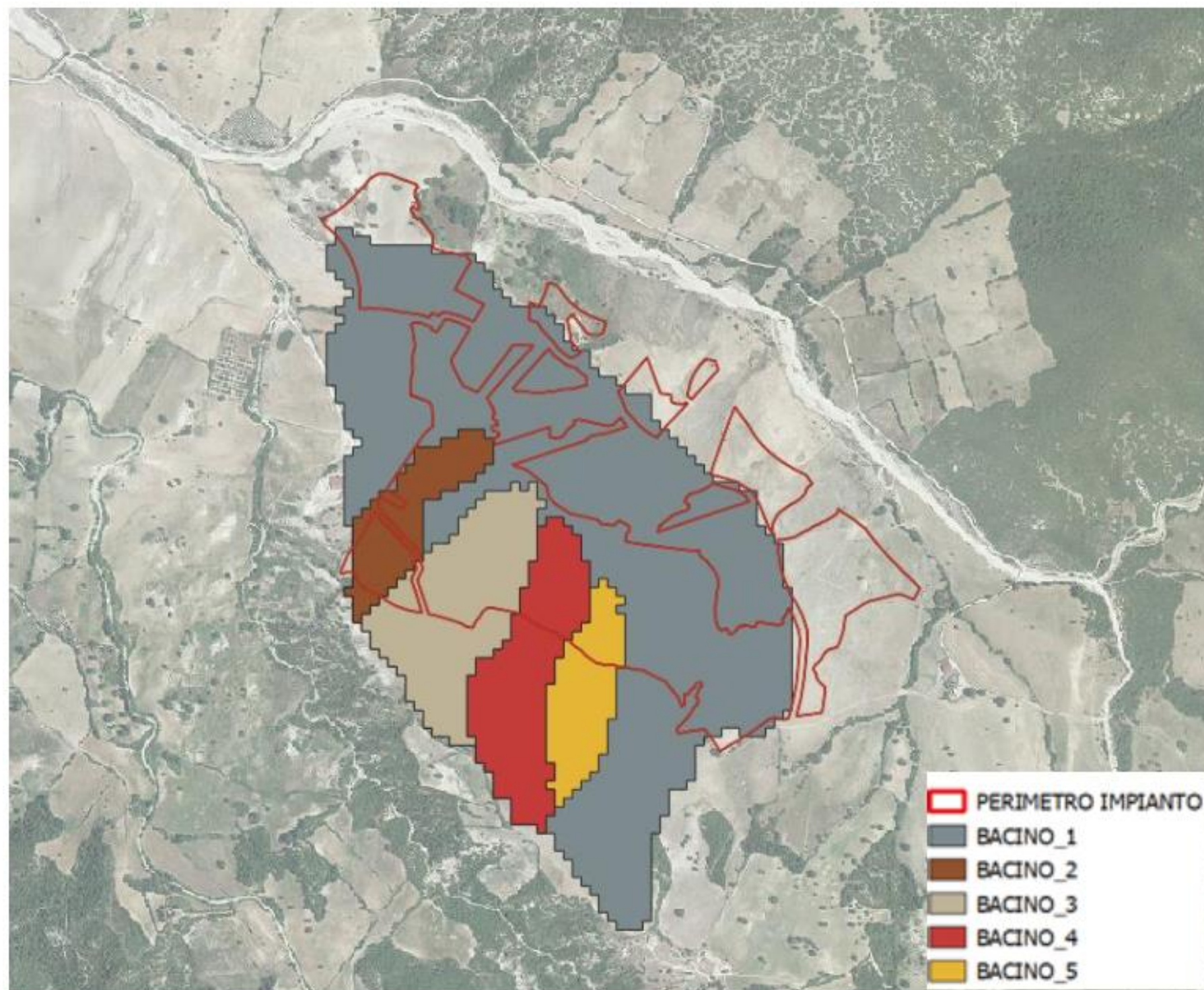


Figura 1 – Perimetrazione Bacini idrografici

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

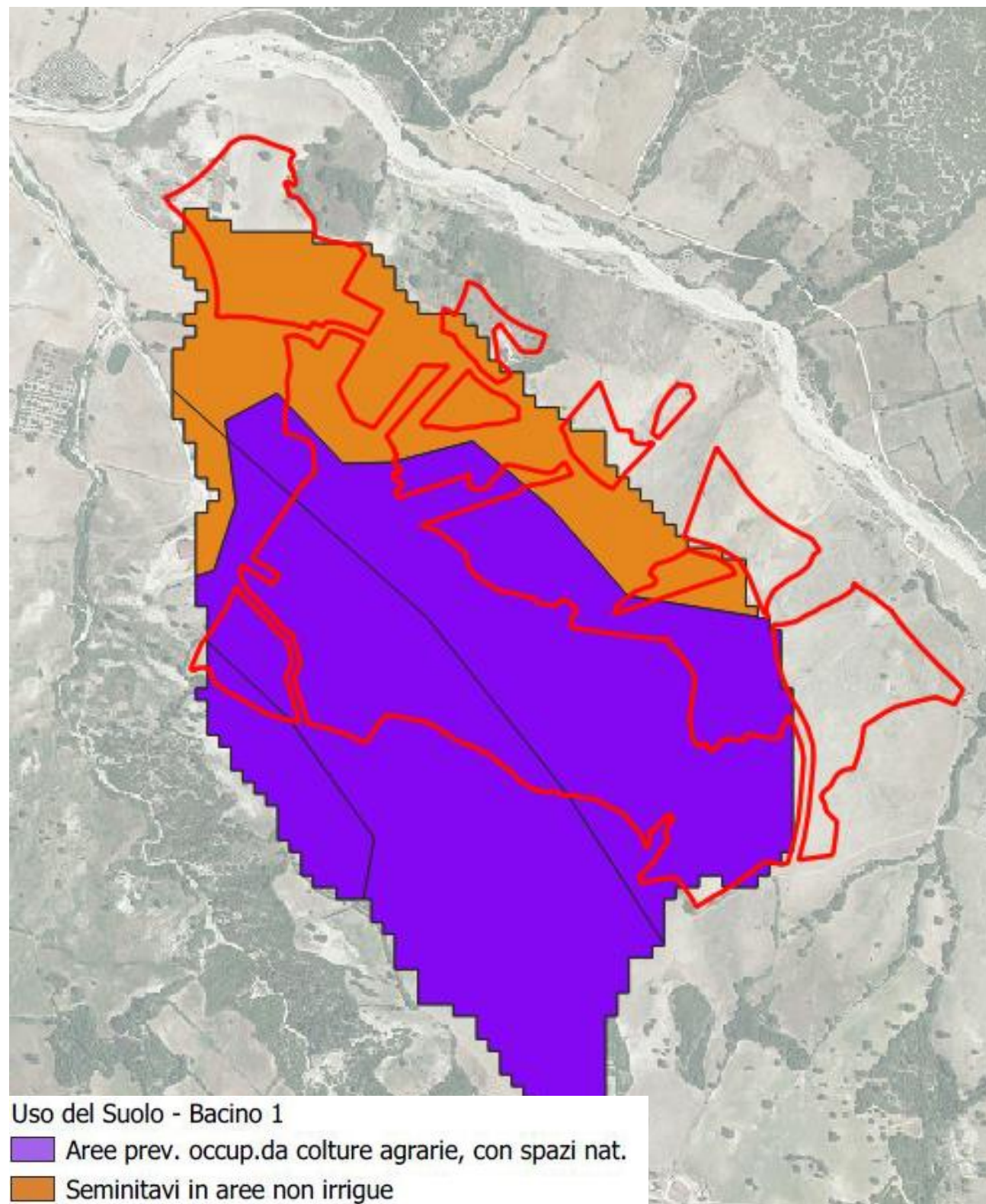


Figura 2: Uso del suolo Bacino 1

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

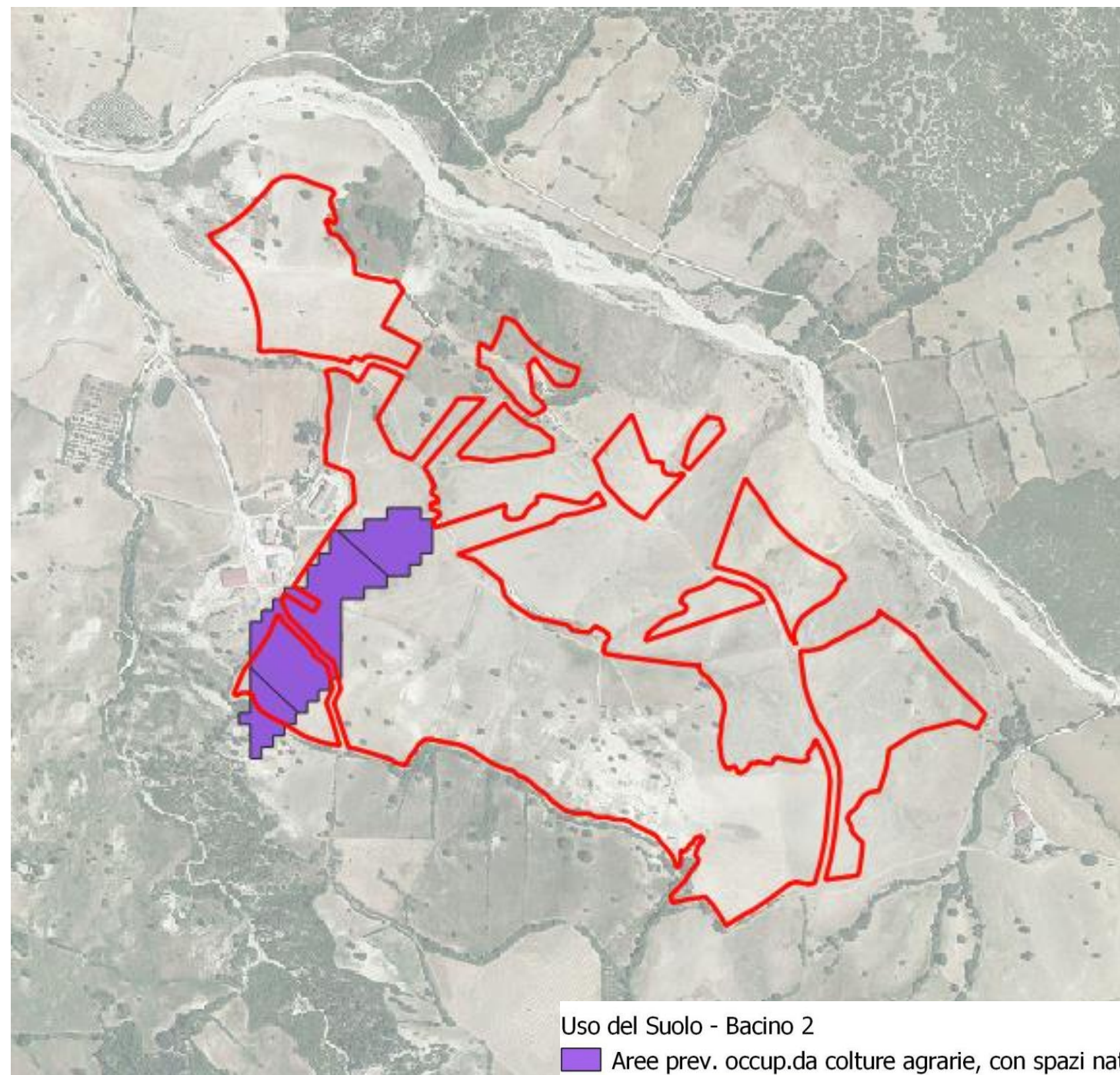


Figura 3: Uso del suolo Bacino 2

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

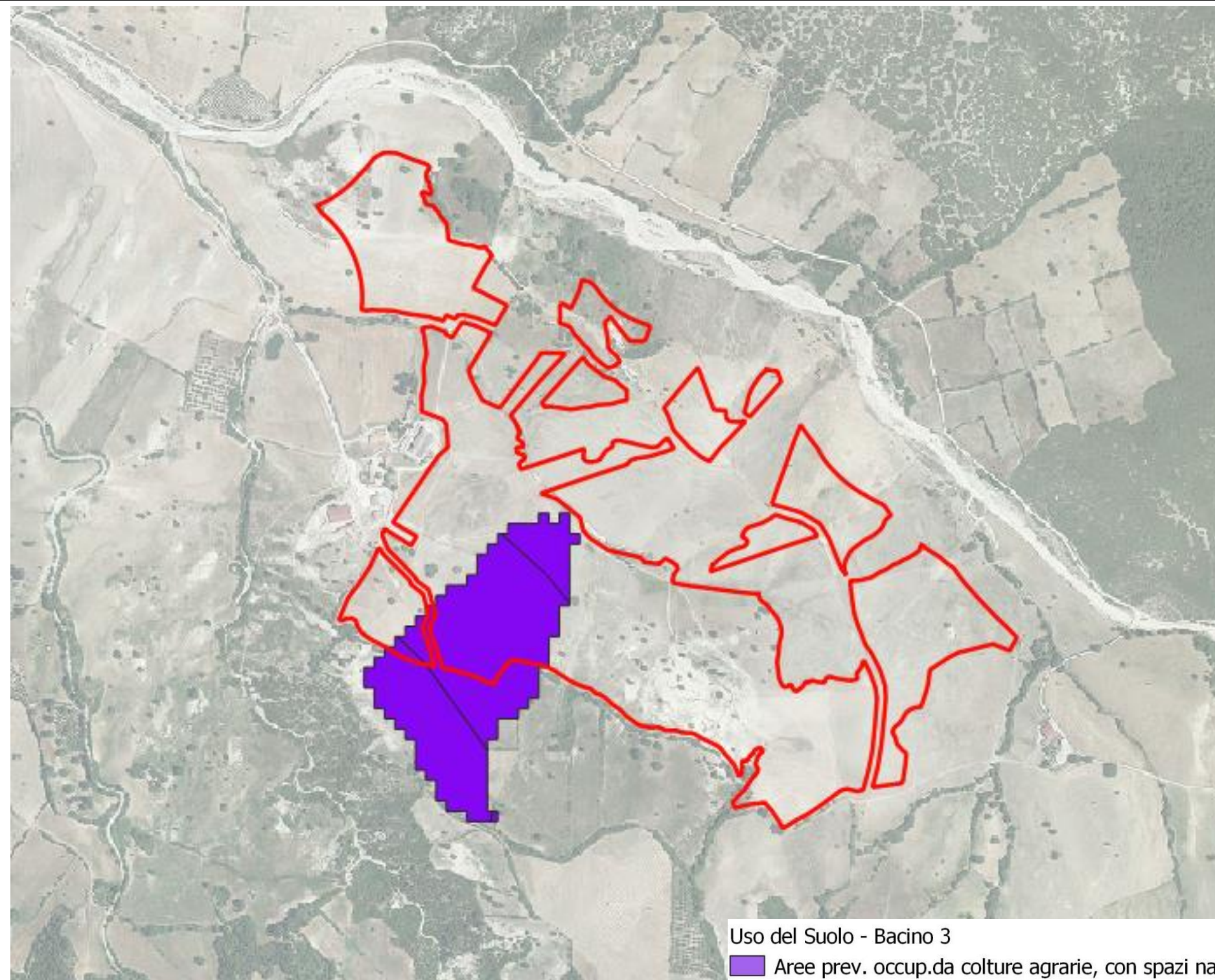


Figura 4: Uso del suolo Bacino 3

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

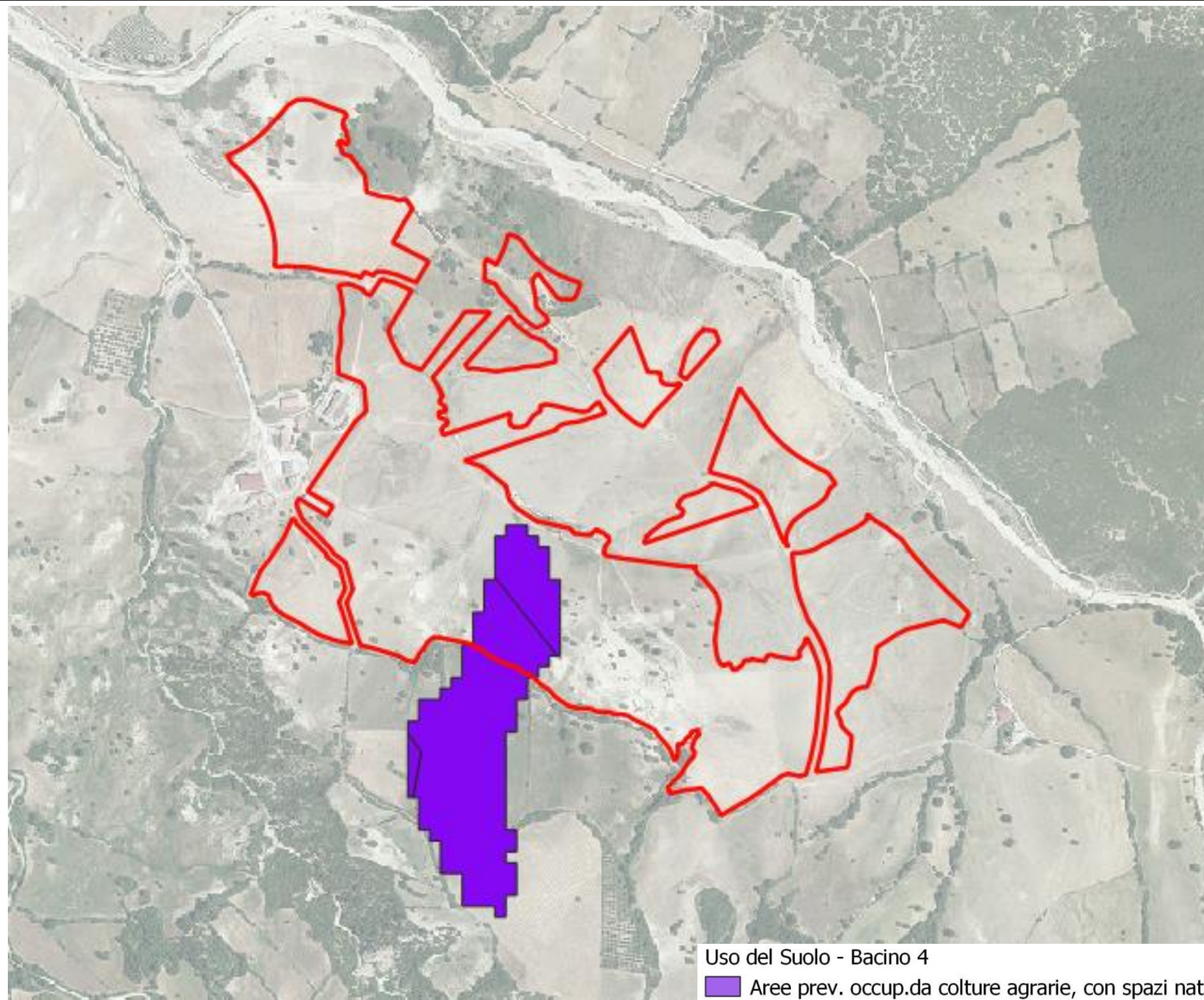


Figura 5: Uso del suolo Bacino 4

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

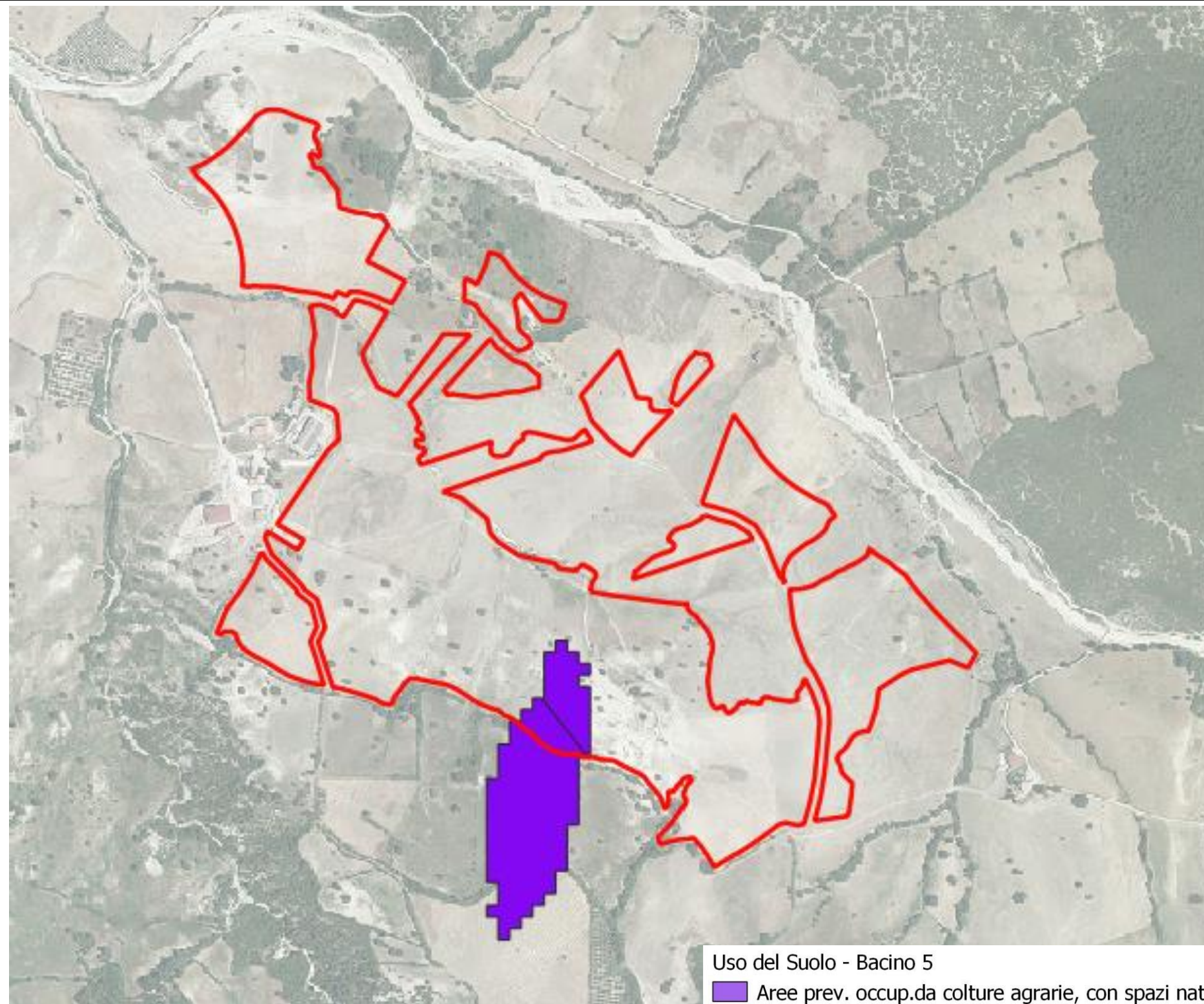


Figura 6: Uso del suolo Bacino 5

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

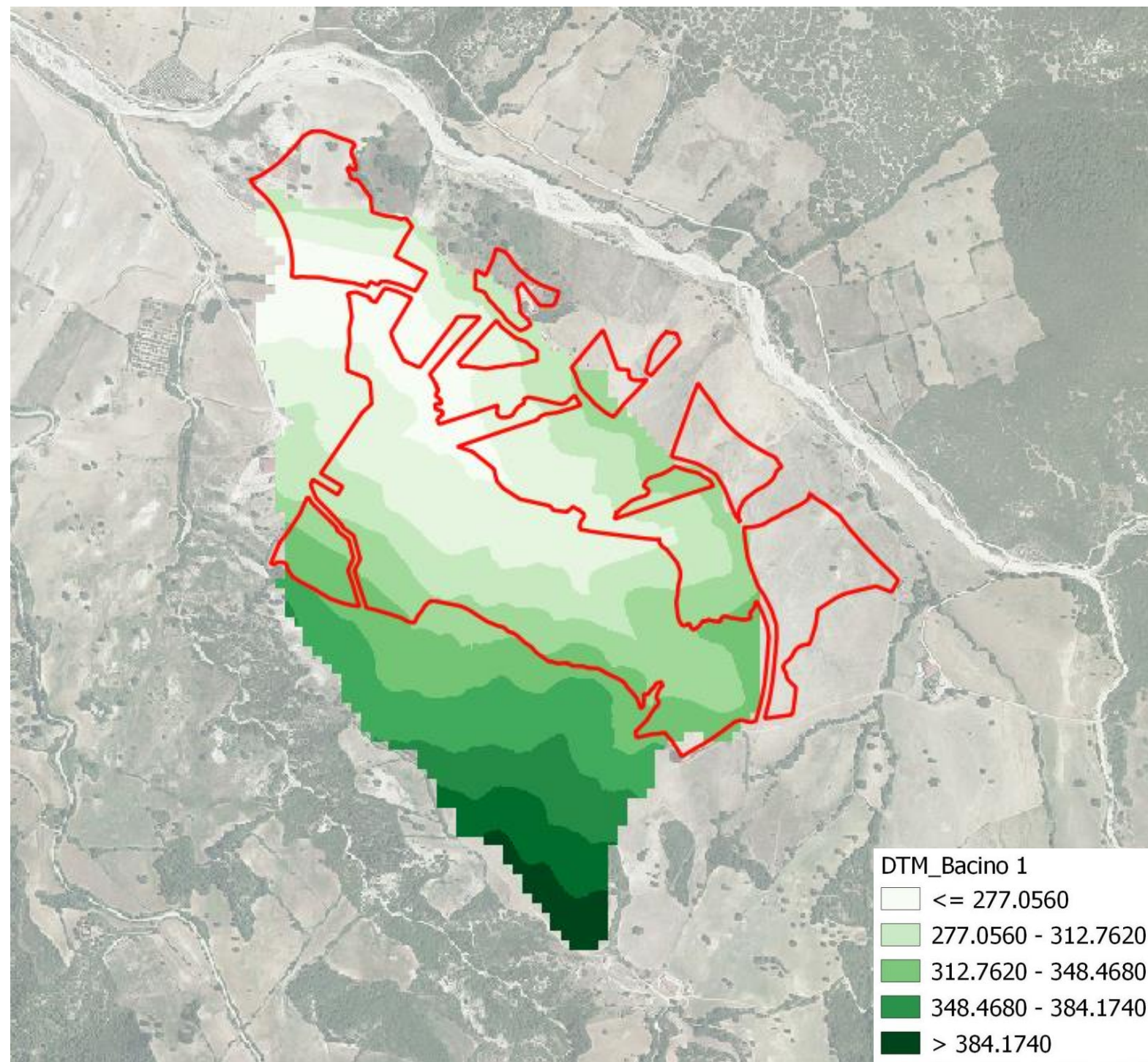


Figura 7: DTM Bacino 1

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

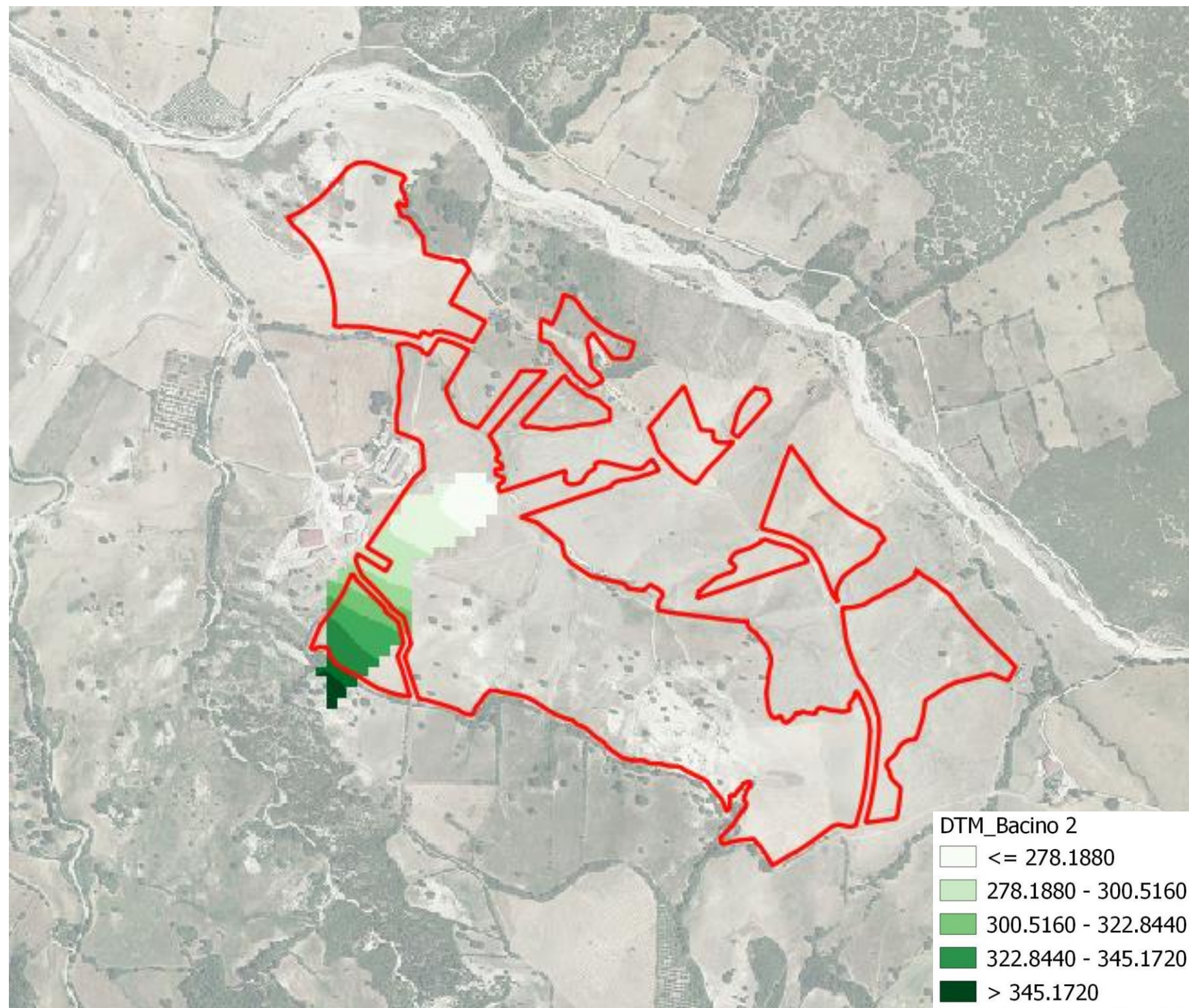


Figura8: DTM Bacino 2

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

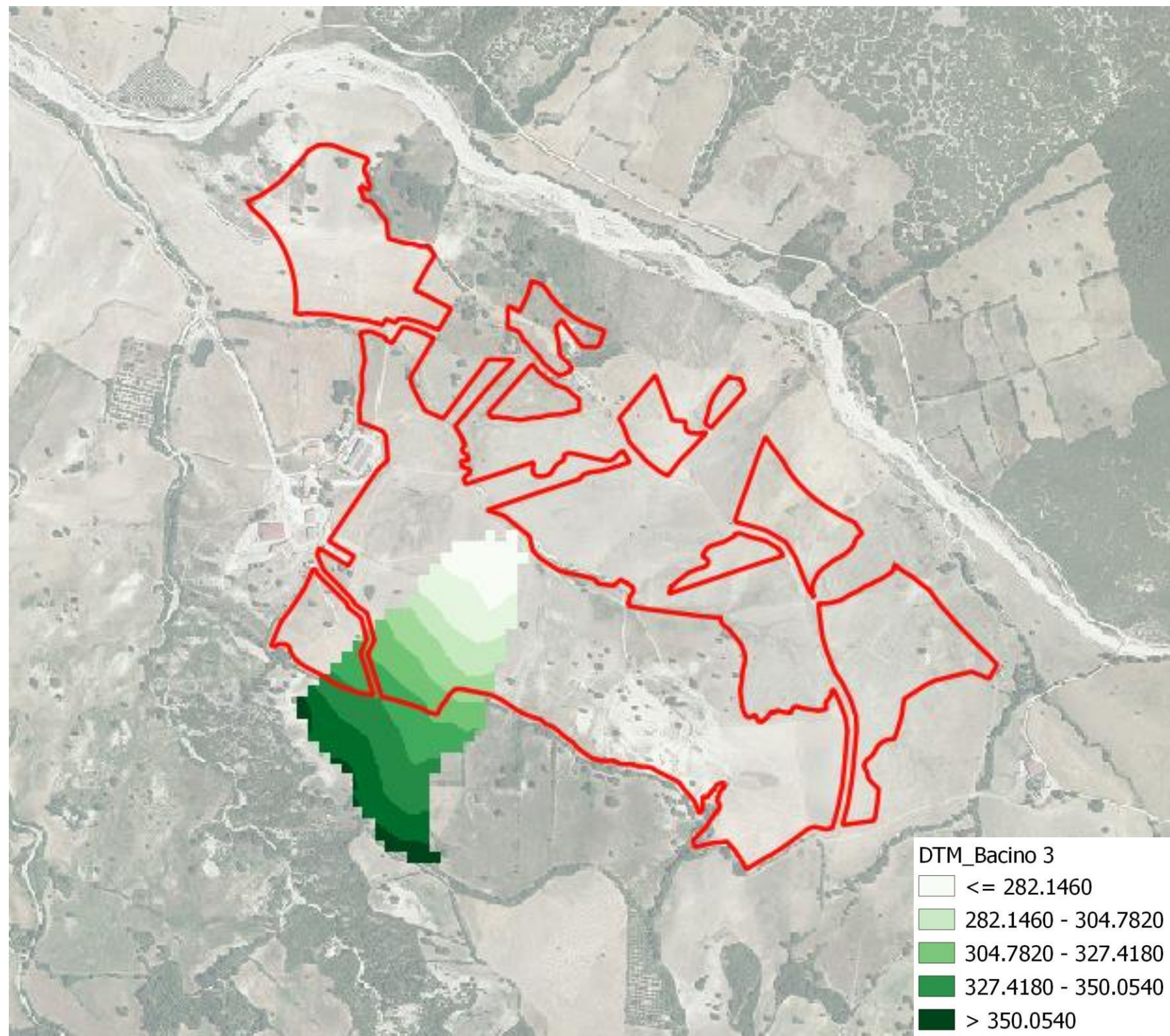


Figura 9: DTM Bacino 3

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

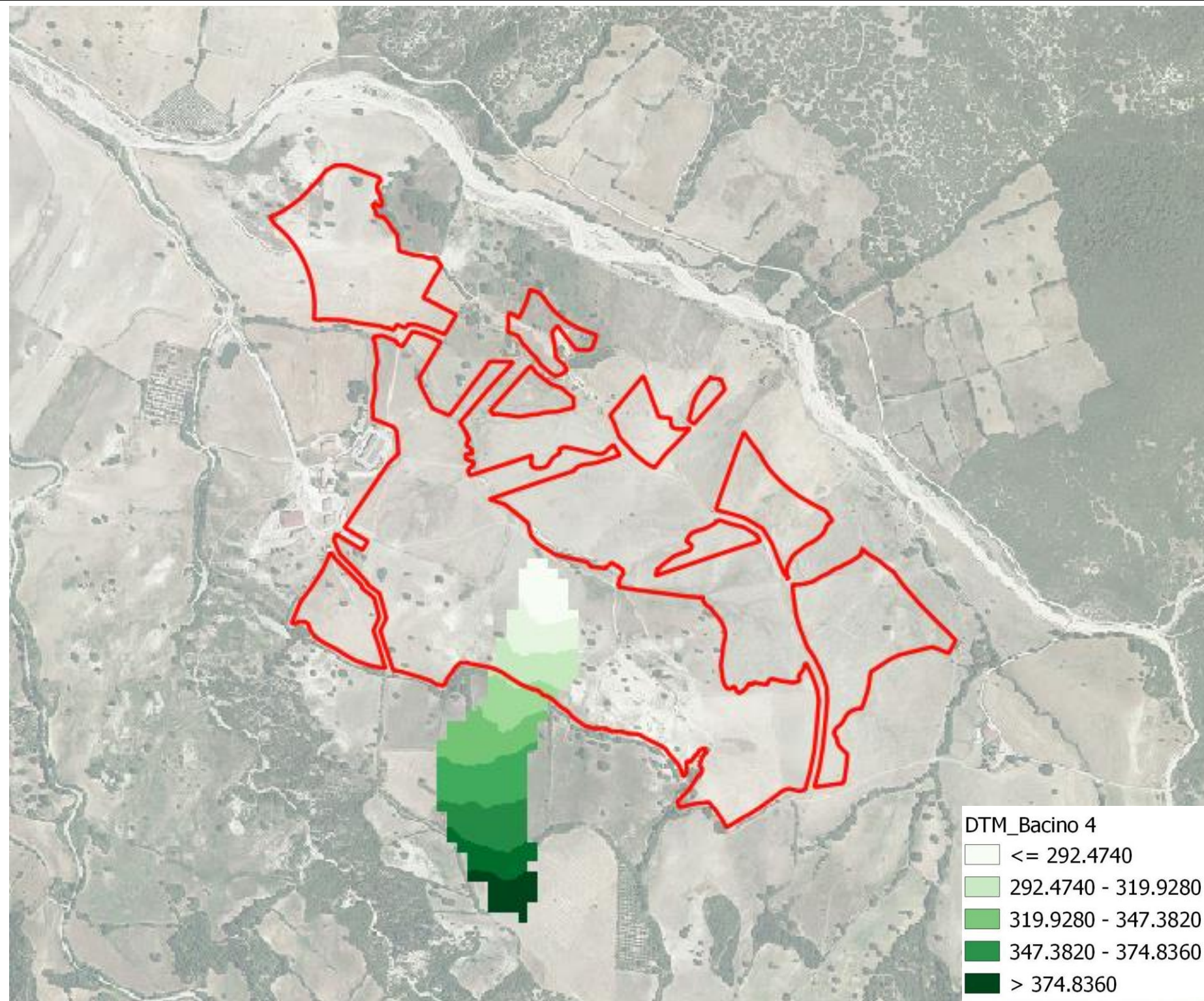


Figura 10: DTM Bacino 4

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

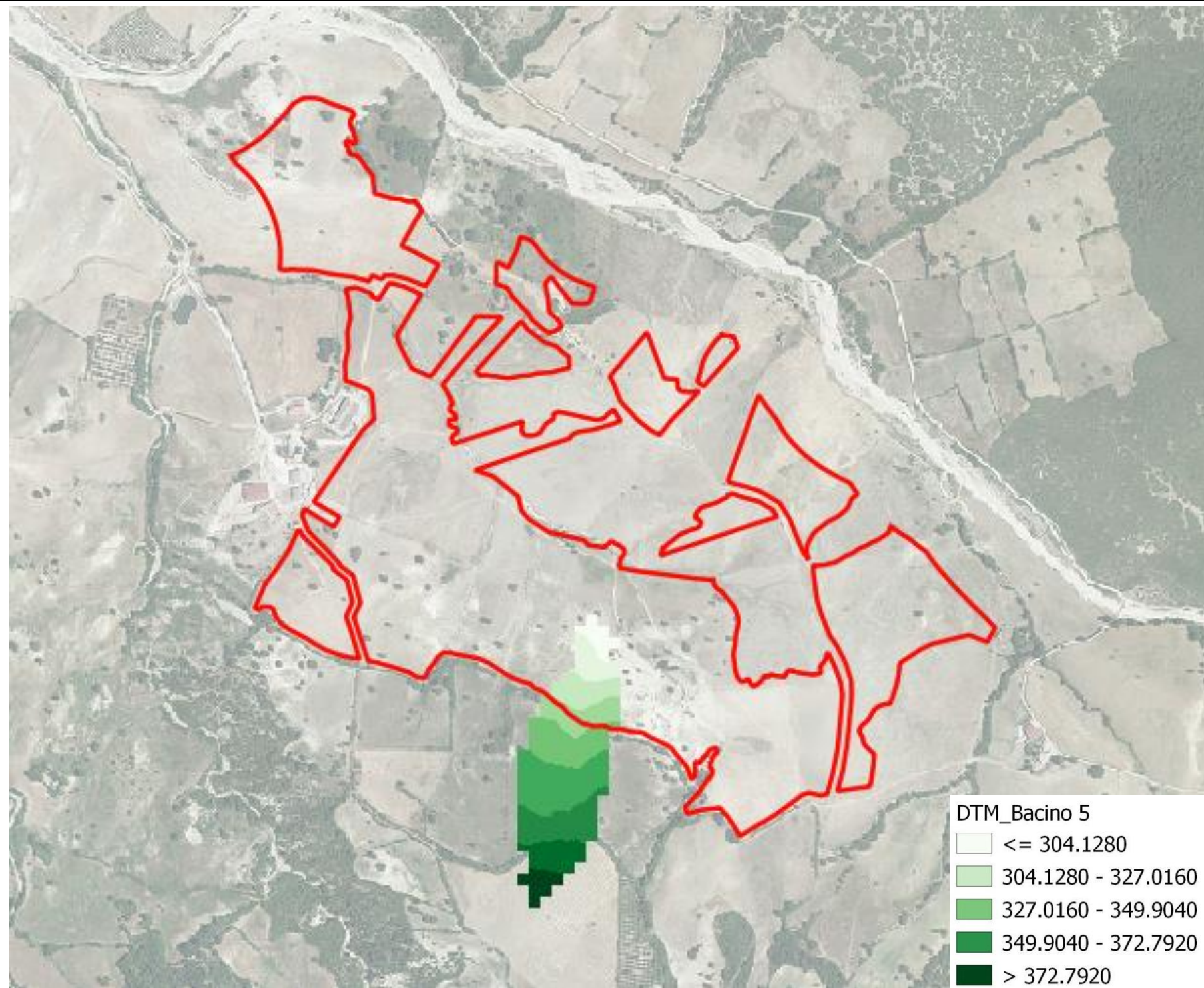


Figura 11: DTM Bacino 5

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

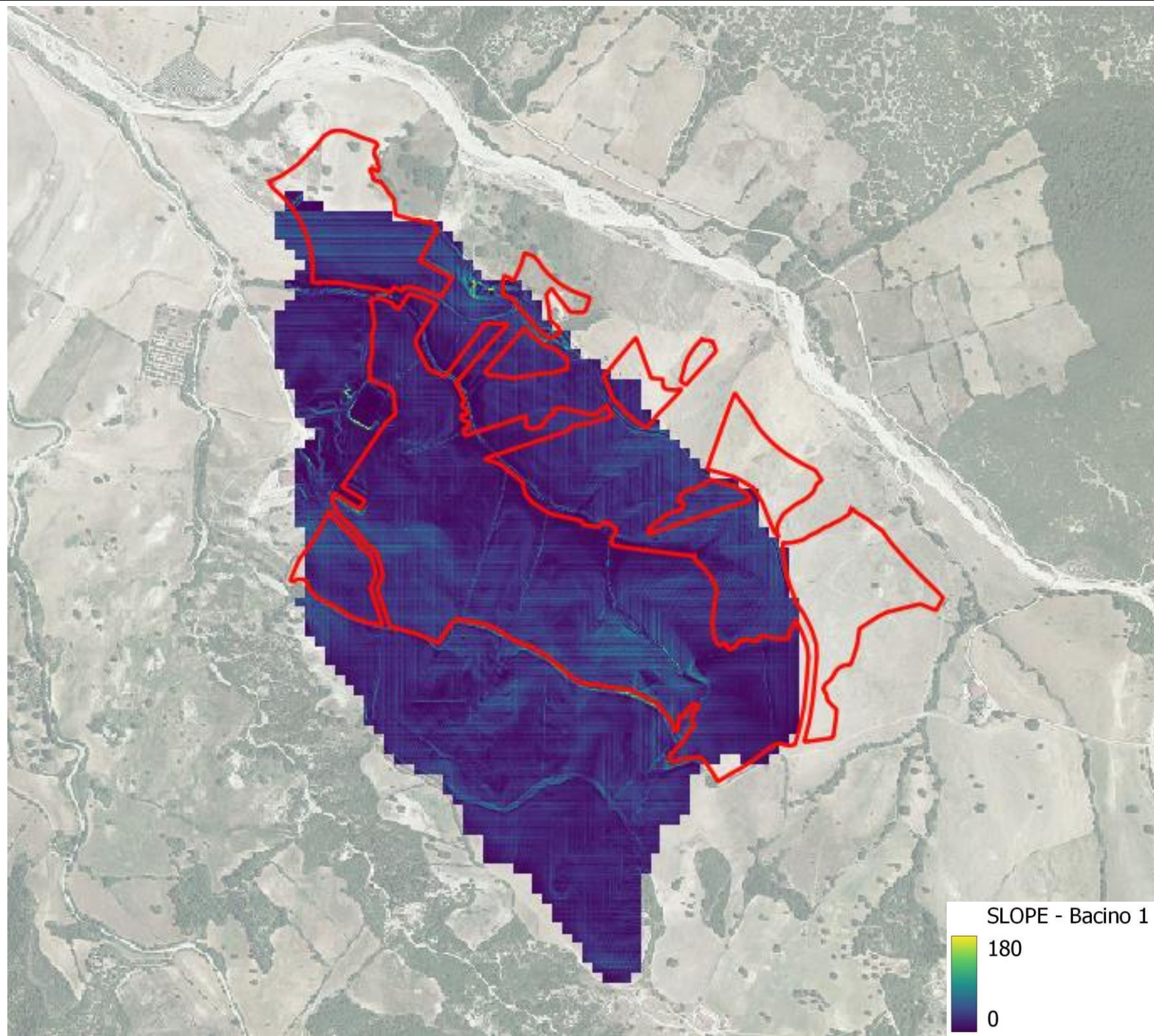


Figura 12: SLOPE Bacino 1

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

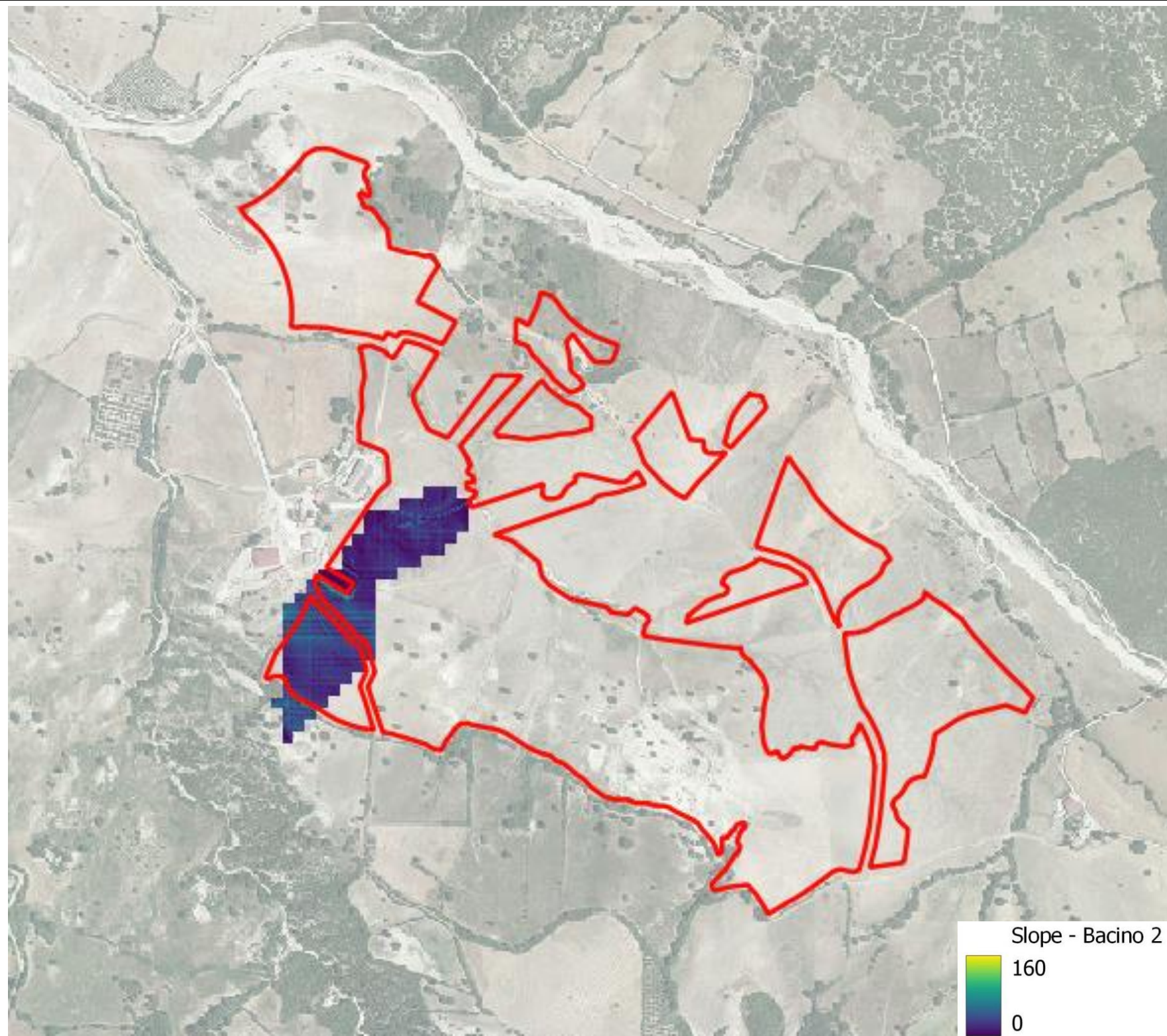


Figura 13: SLOPE Bacino 2

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

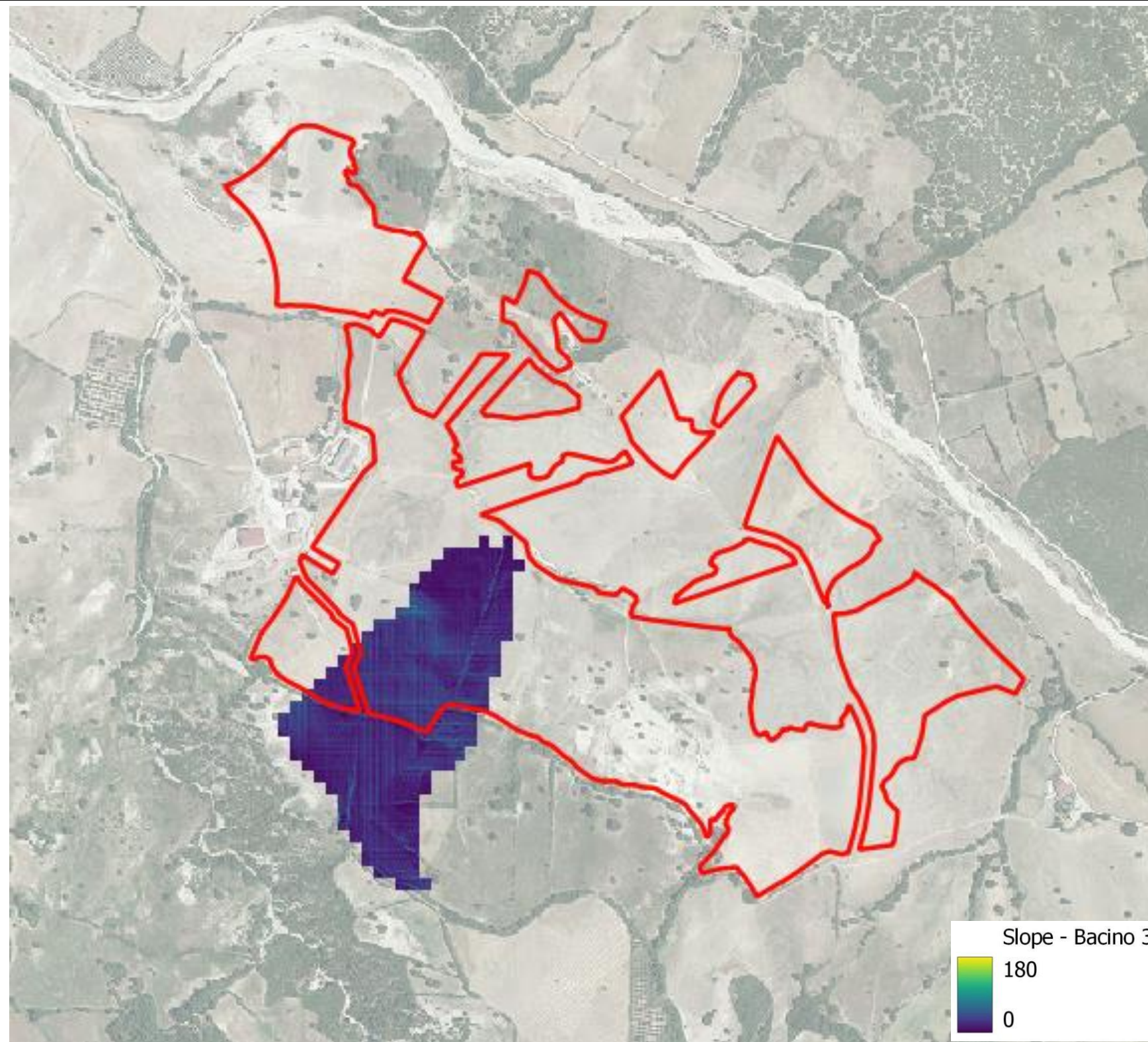


Figura 14: SLOPE Bacino 3

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

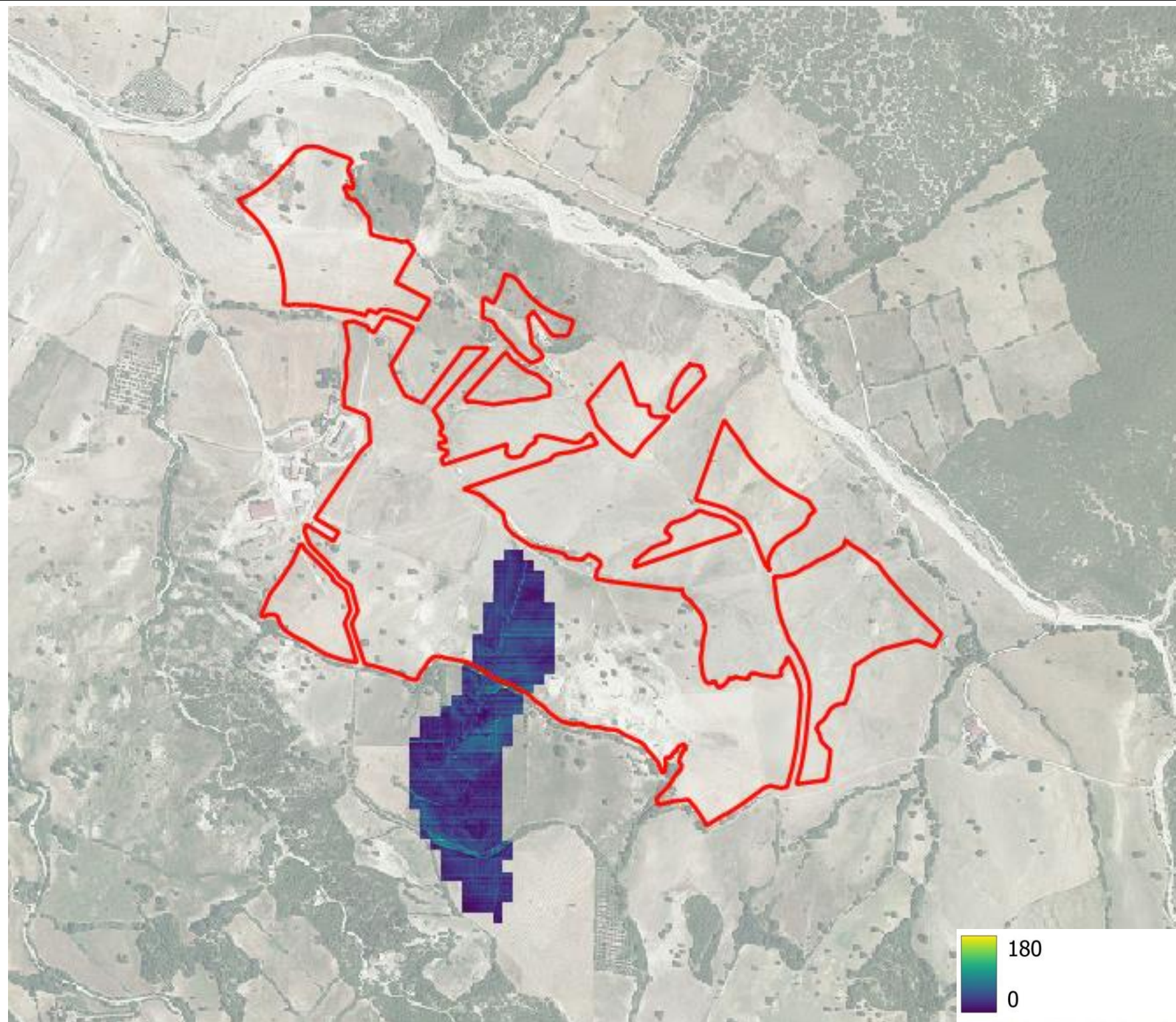


Figura 15: SLOPE Bacino 4

REPORT ANALISI IDROLOGICA – BACINI IDROGRAFICI

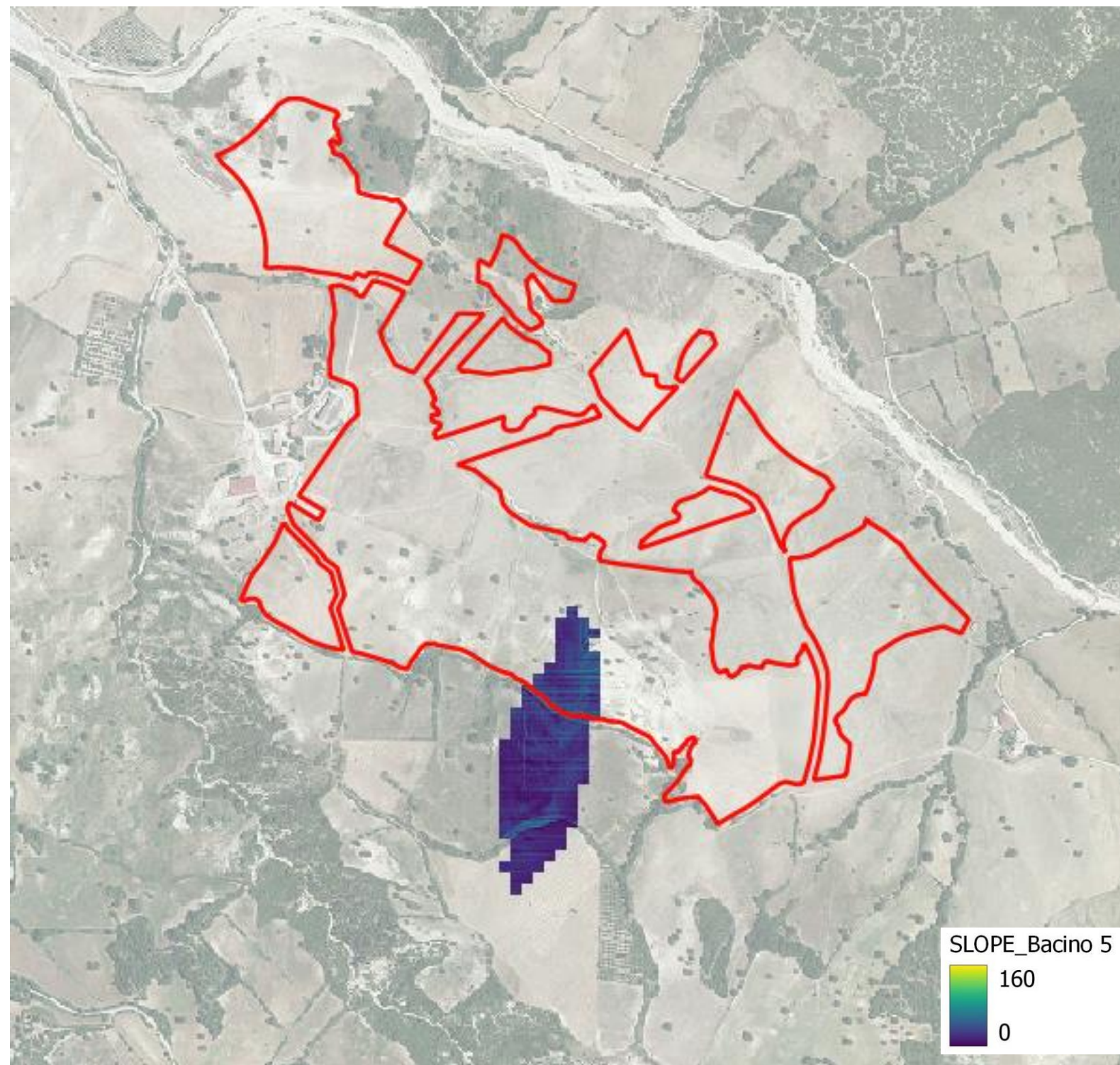


Figura 16: SLOPE Bacino 5