

COMUNE DI POGGIO A CAIANO

Provincia di Prato

STUDIO IDROLOGICO-IDRAULICO PER EVENTI DI PIENA CON TEMPO DI RITORNO VENTENNALE
DI SUPPORTO ALLA VARIANTE AL PIANO STRUTTURALE ED AL REGOLAMENTO URBANISTICO

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COMUNE DI POGGIO A CAIANO

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1 PREMESSA

La presente relazione tecnica viene redatta a seguito delle richieste di integrazioni formalizzate dal Genio Civile di Prato in relazione allo Studio Idrologico Idraulico a corredo della Variante al Piano Strutturale (deposito 8/11) e della Variante al Regolamento Urbanistico (deposito 9/11) del Comune di Poggio a Caiano redatti dallo scrivente.

In particolare si fornisce risposta ai punti C) delle richieste di integrazioni demandando la risposta agli altri punti al geologo incaricato delle indagini.

2 PIANO STRUTTURALE

2.1 PUNTO C) COMMA 1

Per la redazione dello studio sono stati effettuati diversi incontri con i tecnici della Autorità di Bacino del Fiume Arno concordando modi e tempi di esecuzione delle analisi idrologiche idrauliche, tuttavia durante le riunioni non sono stati redatti verbali che possano essere forniti a Codesta Amministrazione né tantomeno esistono documenti ufficiali relativi alla correttezza del lavoro eseguito.

Lo studio è stato comunque effettuato secondo le indicazioni fornite dai tecnici e secondo lo standard previsto dall'AdB.

2.2 PUNTO C) COMMA 2

Il Fosso Colecchio è stato inserito nella modellazione idraulica analizzandolo singolarmente in quanto, di fatto, risulta idraulicamente scollegato dal reticolo circostante dalle portelle di scarico in Ombrone. E' stata valutata la condizione più gravosa di portelle sempre chiuse per ogni scenario previsto.

2.2.1 Descrizione del bacino idrografico

Il bacino del fosso Colecchio si estende interamente in destra del torrente Stella fra questo a le prime pendici collinari del territorio Comunale di Quarrata. Il compito del Colecchio infatti è quello di drenare l'intera area di pianura situata a valle del rio Impialla e compresa fra la destra del torrente Stella ed il Montalbano. Fornisce un contributo al bacino del Colecchio anche gran parte dell'area urbana di Quarrata. Il bacino del Colecchio appartiene al sistema delle acque basse e pertanto presenta, allo sbocco in Ombrone, un sistema di portelle che ne regola lo scarico in funzione del regime di piena del ricettore stesso.

L'arginatura pensile risulta praticamente assente dalle origini del fosso fino all'altezza del passaggio sotto il rio Fermulla; nella zona di Bavigliano si notano debolissime arginature che si ergono di poco rispetto alla campagna circostante. Al contrario, nel comune di Carmignano, e cioè dopo il passaggio al disotto del rio Barberoni, gli argini si fanno più consistenti. Il bacino del Colecchio è stato suddiviso, ai fini del calcolo degli afflussi, in 3 diverse aree che si estendono fino all'asta del rio Barberoni. Oltre infatti possiamo supporre che in regime di piena non vi siano afflussi nel corso d'acqua per ovvi motivi di quote, a meno di eventuali impianti di sollevamento al momento non presenti.

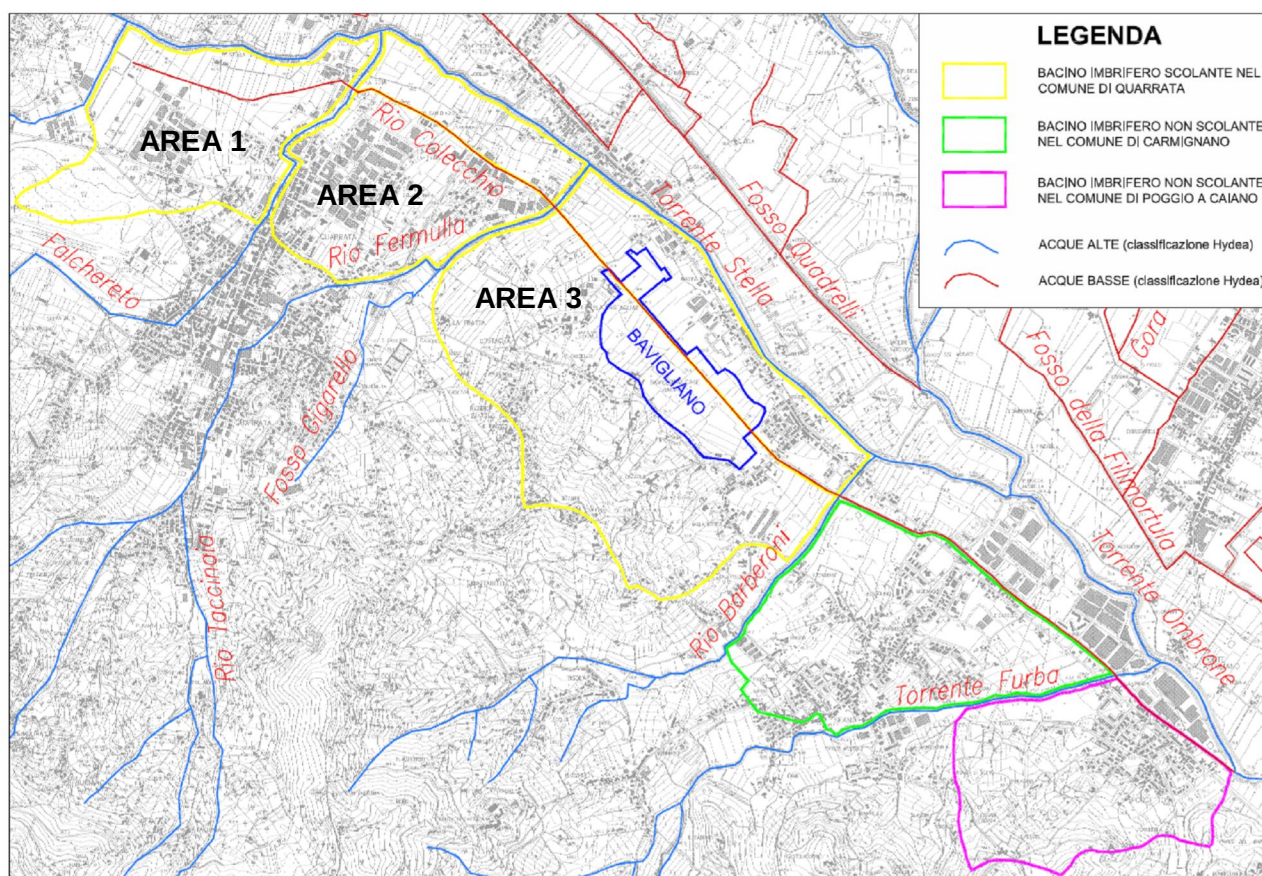


Figura 1- Bacino idraulico del Fosso Colecchio -

Pertanto nella schematizzazione idraulica sono state considerate esclusivamente le tre aree in cui è stato suddiviso il bacino all'interno del Comune di Quarrata e di cui si riportano le caratteristiche nelle tabelle seguenti.

Nome del Bacino	Area 1	Area 2	Area 3
Superficie (Km ²)	1.660	1.340	3.040
Altezza media (m)	10.00	6.00	12.00
Lunghezza dell'asta principale (km)	1.500	1.500	1.800
Tc (h)	2.9	3.5	3.5

Per una corretta lettura della tabella precedente si precisa che l'Area 1 è rappresentata dalla parte di bacino che sta a monte del rio Falchereto, l'Area 2 è compresa fra il rio Falchereto ed il rio Fermulla, mentre l'Area 3 si estende a valle del rio Fermulla fino al rio Barberoni. Per le aree oltre il rio Barberoni, quindi, non si sono considerati ulteriori apporti, data la presenza delle arginature che impediscono lo scarico attraverso le portelle in regime di piena.

2.2.2 Curva di possibilità climatica

Il calcolo delle portate deve essere preceduto da un attento esame delle piogge che interessano tutta l'area in oggetto. Sono stati quindi analizzate una serie di dati pluviometrici finalizzate alla stima delle portate al colmo per il tempo di ritorno di 200, 100, 30 e 20 anni.

Ai fini della determinazione degli idrogrammi relativi ai vari fossi in oggetto, è stato fatto riferimento alla stazione pluviometrica più vicina che interessava i bacini oggetto di studio.

- *Spicchio (Lamporecchio) , n°1640, 137 m s.l.m. ;*

Dai dati considerati è possibile ricostruire una curva la quale, assegnato un determinato tempo di ritorno T_r , cioè il numero di anni in cui, mediamente, il massimo valore dell'altezza di pioggia è superato una volta sola, ci restituisce l'altezza di pioggia h in funzione della durata stessa dell'evento. Nei calcoli della curva di possibilità, come legge di distribuzione della frequenza di superamento, è stata assunta la legge di Gumbel cioè una funzione che ci fornisce la frequenza di superamento di un valore estremo h dell'altezza di pioggia:

$$P(h) = \exp(-\exp(-y))$$

dove y è la variabile aggiunta:

$$y(h) = \alpha (h-u)$$

I coefficienti α ed u vengono determinati nel modo seguente:

$$\alpha = \frac{1.283}{\bar{s}}$$

$$u = \mu - \frac{0.577}{\alpha}$$

dove m è la media delle precipitazioni massime ed $\bar{s}$ è lo scarto quadratico medio calcolato sul campione. L'equazione precedentemente vista è quella di una retta in cui il coefficiente angolare m è pari ad α , mentre il termine noto vale au . Con questi dati a disposizione possiamo costruire le rette interpolanti i dati pluviometrici e quindi calcolare le altezze di pioggia relative al tempo di ritorno di 200 anni, infatti il tempo di ritorno è legato alla probabilità di superamento dalla relazione:

$$P(h) = \frac{T_r - 1}{T_r}$$

Quindi sostituendo nella relazione di Gumbel il valore di $P(h)$ relativo a 200 anni si ricavano le altezze di pioggia corrispondenti. La curva di possibilità climatica si ricava dai dati precedenti mediante una regressione lineare col metodo dei minimi quadrati, infatti essendo la curva di possibilità una funzione esponenziale del tipo:

$$h = a \cdot t^k$$

applicando l'operatore di logaritmo ad entrambi i membri otteniamo:

$$\log(h) = \log(a) + k \log(t)$$

che è l'espressione di una retta in un piano con assi logaritmici.

I parametri di riferimento quindi sono i seguenti:

TR20	a=42.25	k=0.2789
TR30	a=44.99	k=0.2775
TR100	a=53.05	k=0.2742
TR200	a=57.66	k=0.2727

2.2.3 Stima del coefficiente di deflusso

Una volta determinato l'afflusso meteorico è necessario calcolare il coefficiente di afflusso alla rete idraulica e questo può essere effettuato attraverso il metodo SCS messo a punto dal Soil Conservation Service in America.

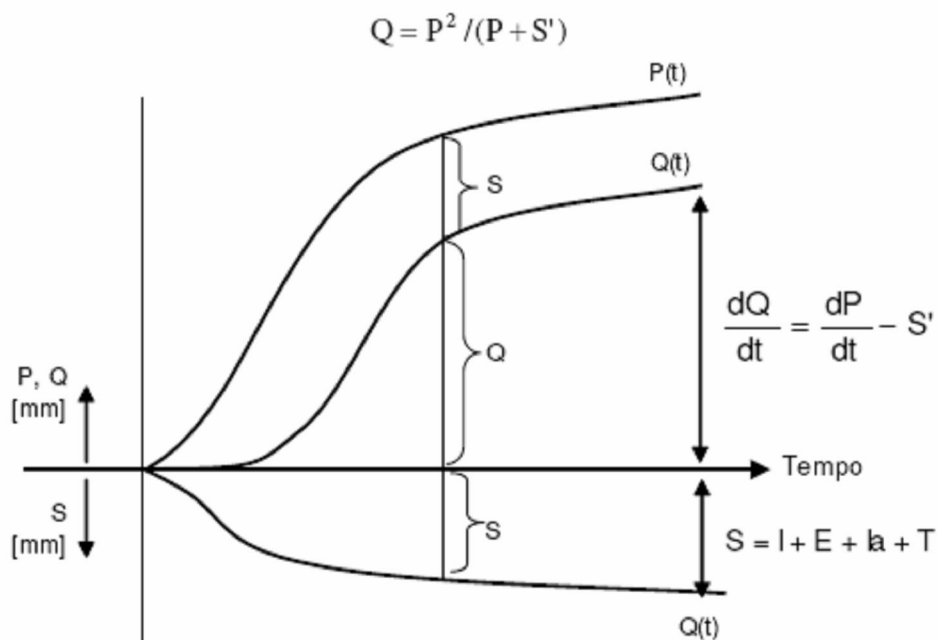
È un metodo molto diffuso negli Stati Uniti, soprattutto grazie alla notevole mole di dati reperibili in letteratura per la sua applicazione. Scritta l'equazione di continuità nella forma:

$$Q = P - S$$

dove Q [mm] è il volume defluito fino all'istante t ; P [mm] è il volume affluito fino al medesimo istante e S [mm] è il volume complessivamente perduto, il metodo ipotizza che sussista una relazione di proporzionalità del tipo:

$$\frac{S}{S'} = \frac{Q}{P}$$

dove S' [mm] è il volume massimo immagazzinabile nel terreno a saturazione. Combinando le equazioni si ottiene la relazione:



che definisce l'andamento nel tempo del volume defluito, noto quello affluito ed il valore di S' . Per tener conto, pur in maniera sommaria, della parte di precipitazione che va ad invasarsi nelle depressioni superficiali o si infiltra prima che il deflusso abbia inizio, nell'equazione precedente al posto del volume P complessivamente affluito fino all'istante t si introduce il termine $(P - I_a)$ con la [mm] *Initial abstraction* (depurazione iniziale). L'equazione diventa infine:

$$Q = \frac{(P - I_a)^2}{(P - I_a) + S'}$$

che è la forma di equazione adottata.

La determinazione di S' viene effettuata sulla base della seguente relazione:

$$S' = \frac{25400}{CN} - 254$$

che riconduce la sua determinazione a quella del cosiddetto indice CN (Curve Number), compreso tra 0 e 100, e diffusamente tabulato nella letteratura statunitense. Una tabella abbastanza esauriente è quella riportata di seguito (si tenga presente che i tipi di suolo A,B,C e D si riferiscono alla medesima classificazione del Soil Conservation Service).

Tipo di copertura (uso del suolo)	Tipo di suolo			
	A	B	C	D
<i>Terreno coltivato</i>				
Senza trattamenti di conservazione	72	81	88	91
Con interventi di conservazione	62	71	78	81
<i>Terreno da pascolo</i>				
Cattive condizione	68	79	86	89
Buone condizione	39	61	74	81
<i>Praterie</i>				
Buone condizioni	30	58	71	78
Terreni boscosi o forestali				
Terreno sottile, sottobosco povero, senza foglie	45	66	77	83
Sottobosco e copertura buoni	25	55	70	77
<i>Spazi aperti, prati rasati, parchi</i>				
Buone condizioni con almeno il 75 % con copertura erbosa	39	61	74	80
Condizioni normali, con copertura erbosa intorno al 50 %	49	69	79	84
<i>Area commerciale (impermeabilità 85 %)</i>	89	92	94	95
<i>Distretti industriali (impermeabilità 72 %)</i>	81	88	91	93
<i>Aree residenziali</i>				
Impermeabilità media 65%	77	85	90	92
Impermeabilità media 38%	61	75	83	87
Impermeabilità media 30%	57	72	81	86
Impermeabilità media 25%	54	70	80	85
Impermeabilità media 20%	51	68	79	84
<i>Parcheggi impermeabilizzati, tetti</i>	98	98	98	98
<i>Strade</i>				
Pavimentate, con cordoli e fognature	98	98	98	98
Inghiaiate o selciate con buche	76	85	89	91
In terra battuta (non asfaltate)	72	82	87	89

Per quanto attiene invece il valore del parametro la (Initial abstraction o depurazione iniziale) il Soil Conservation Service assume $la = 0.2 S'$, con il quale il modello di depurazione viene a dipendere dall'unico parametro S' (deducibile dal CN).

I coefficienti CN adottati, sono quelli riportati all'interno dello studio condotto da Hydea-Geoplan-BRL, legati alla cartografia dell'utilizzo del suolo ed alle varie tabelle di conversione riportate in letteratura.

Nome del Bacino	Area 1	Area 2	Area 3
Coefficiente CN metodo SCS	84	86	82

2.2.4 Calcolo del tempo di corrivazione

In questo caso, per il calcolo del tempo di corrivazione possiamo considerare valida l'espressione di Giandotti:

$$T_c = \frac{4\sqrt{A} + 1.5L}{0.8\sqrt{H_m}}$$

dove L è la lunghezza dell'asta principale (in km), A è l'area del bacino in kmq ed infine H_m è il dislivello medio del bacino, rispetto alla sezione di chiusura. Conoscendo il tempo di corrivazione del bacino possiamo calcolare la pioggia di progetto e quindi il coefficiente di afflusso.

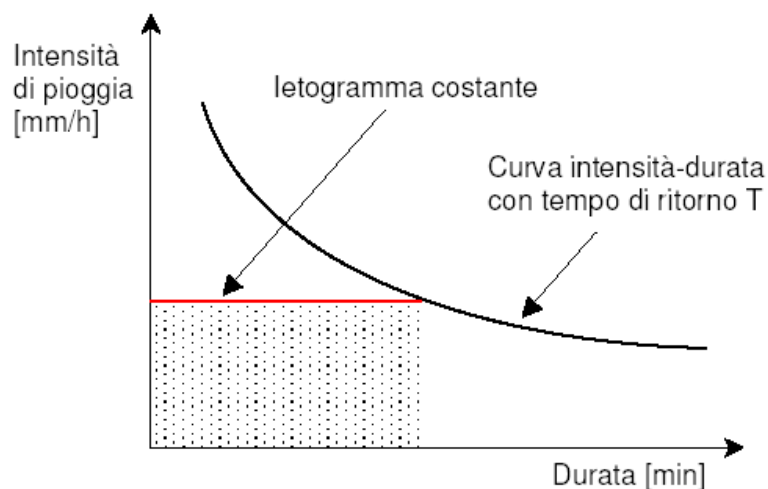
2.2.5 Calcolo degli idrogrammi di piena

Lo ietogramma utilizzato per il calcolo risulta di altezza costante per tutta la durata della pioggia.

Questo ietogramma, sicuramente il più diffuso, è dedotto dalle curve di possibilità pluviometrica con l'ipotesi che l'andamento temporale dell'intensità di pioggia sia costante in tutta la durata. Per la sua definizione è necessario quindi specificare la durata dell'evento.

In fase progettuale normalmente si conducono vari tentativi con durate differenti fino ad individuare quella che dà luogo al massimo valore della grandezza di interesse (portata al colmo per il dimensionamento dei condotti, volume da immagazzinare per il dimensionamento di vasche volano, ecc.). Tale durata prende il nome di "durata critica".

Nel nostro caso verranno valutate durate pari a 2, 4, 7, 12.



In questa trattazione verrà utilizzato il metodo della corrivazione che schematizza il bacino come un'insieme di canali lineari, tali cioè che il tempo di percorrenza del bacino sia un'invariante. È possibile quindi, almeno in via concettuale, tracciare le così dette linee isocorve che uniscono i punti del bacino ad ugual tempo di corrivazione.

Da esse, infine, è possibile costruire la curva aree-tempi che rappresenta in ordinate le aree s del bacino comprese tra la sezione di chiusura e la linea isocoriva relativa al generico tempo di corrivazione t , rappresentato in ascissa.

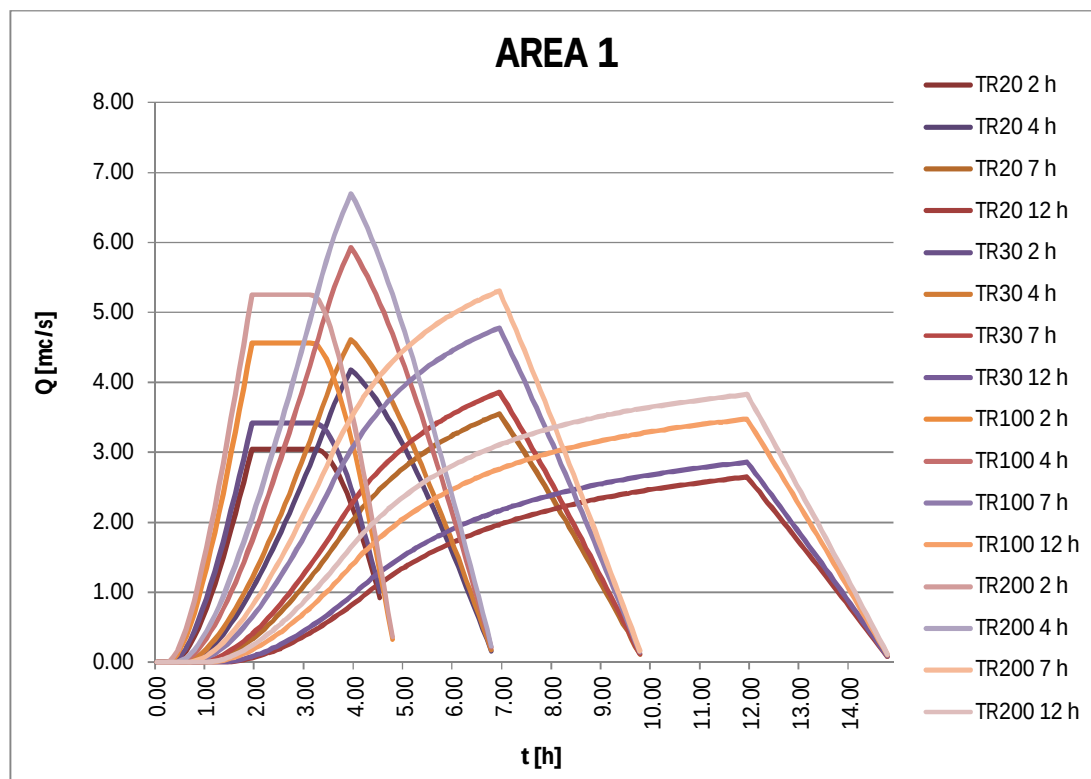
Il tempo di corrivazione t corrispondente alla superficie totale S si definisce semplicemente come tempo di corrivazione del bacino in esame (t_c). Dalla curva aree-tempi è possibile dedurre l'IUH che assume la forma:

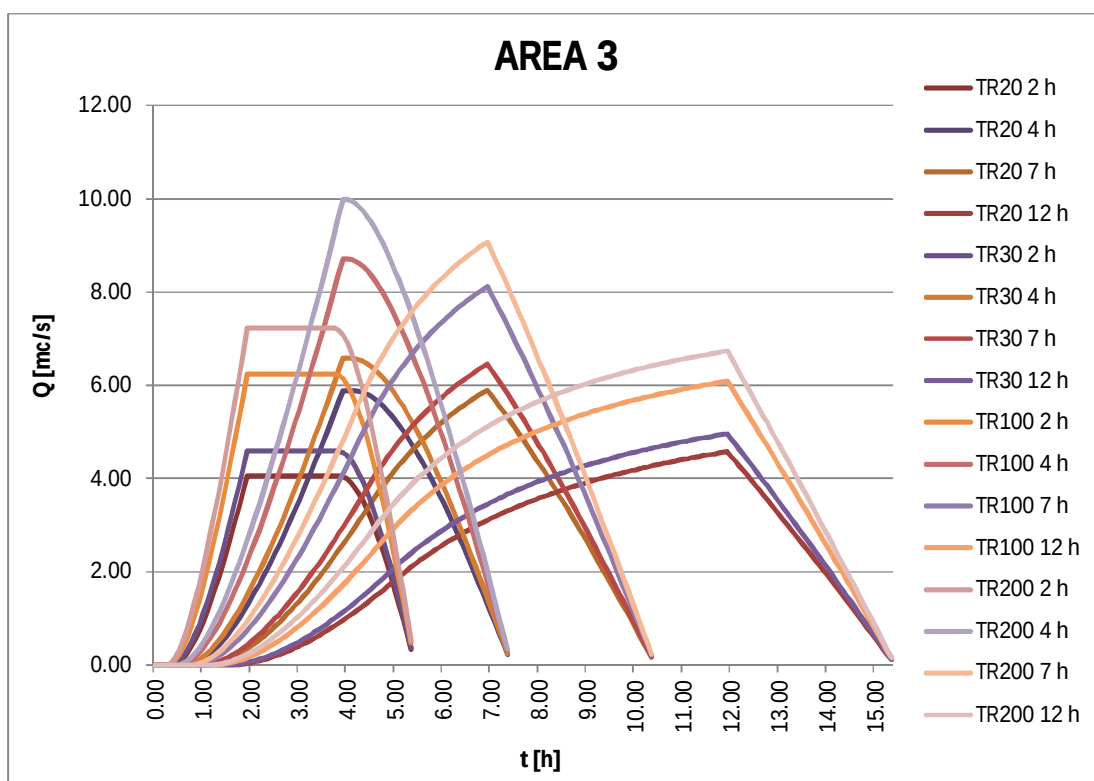
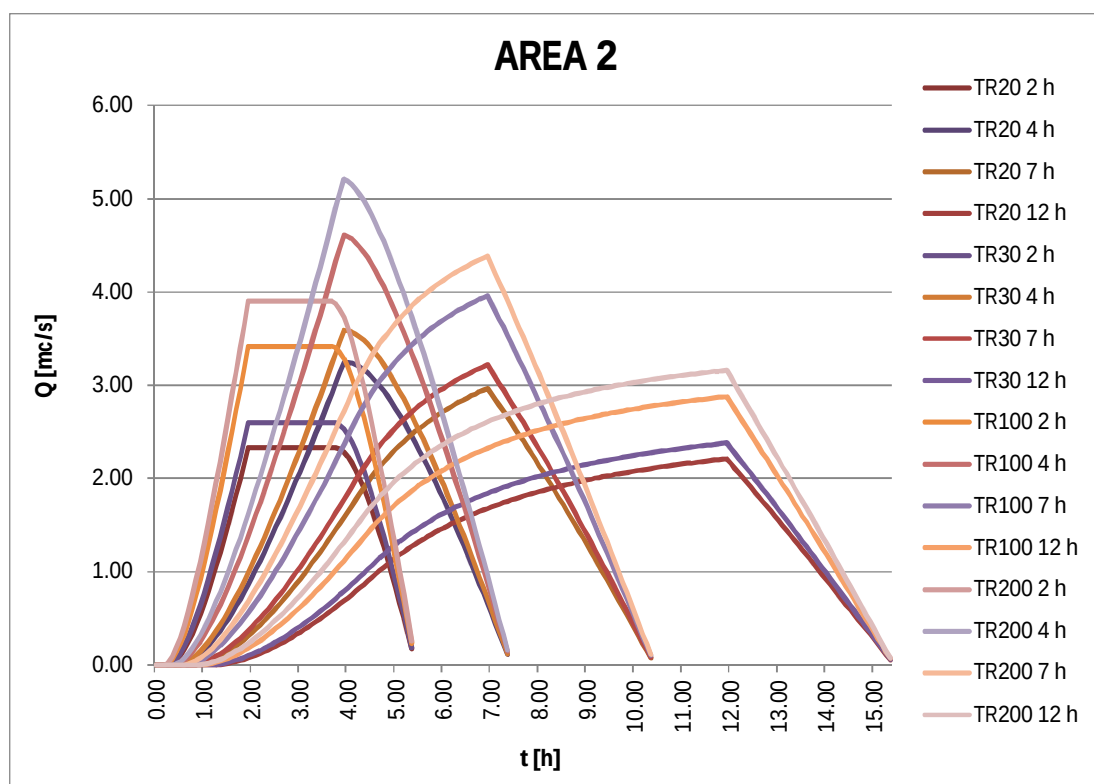
$$h(t) = \frac{1}{S} \cdot \frac{dS}{dt}$$

dove dS/dt è la derivata della curva aree tempi medesima. L'applicazione del metodo richiede quindi la costruzione della curva aree-tempi suddetta, sulla base del reticolo idrografico (naturale od artificiale) e con considerazioni drasticamente semplificative: ad esempio è comune considerare punti del bacino ad ugual distanza dalla sezione di chiusura (lungo la rete idrografica) come appartenenti alla stessa isocoriva.

Una ancor più drastica semplificazione, anch'essa comune, ipotizza addirittura che la curva aree-tempi sia lineare, riconducendo la sua determinazione al solo tempo di corrivazione t_c . In questo caso l'IUH assume infatti la forma semplificata:

$$h(t) = \frac{1}{t_c}$$





2.2.6 Modello idraulico

E' stato costruito un modello idraulico relativo all'asta del Fosso Colecchio partendo dalla geometria fornita direttamente dall'autorità di Bacino del Fiume Arno di complessive 174 sezioni.

Alla modellazione d'alveo è stata affiancata la modellazione delle aree di potenziale esondazione a campagna desunta dalla morfologia del territorio ricostruendo i DTM digitali partendo dalla cartografia tecnica regionale al 2000.

Dal DTM sono state estrapolate le curve di invaso delle celle che complessivamente sono 8.

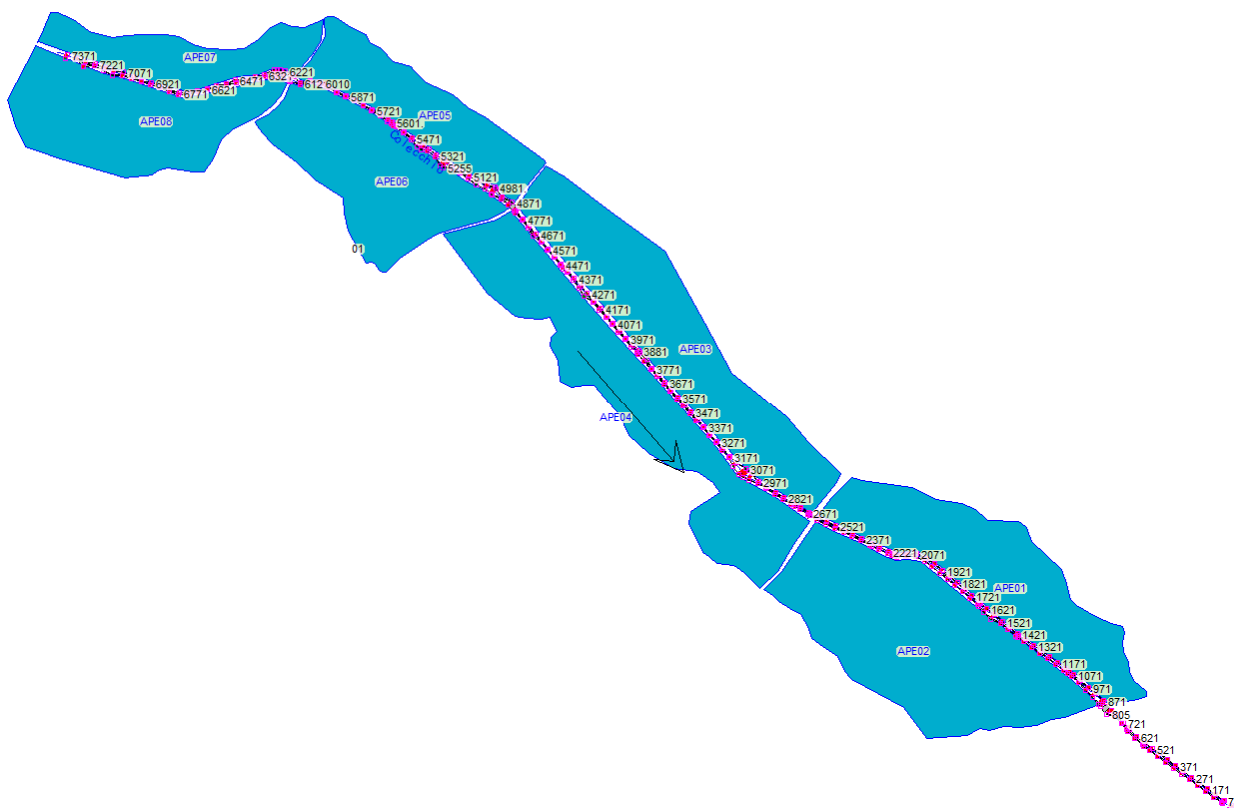


Figura 2- Modello idraulico del fosso Colecchio –

Le aree di potenziale esondazione sono state collegate al corso d'acqua mediante sfioratori laterali posizionati lungo tutta l'asta.

Negli allegati alla relazione si nota come per tutti i tempi di ritorno e tutti gli scenari studiati le APE numero 1 e 2, posizionate in territorio del comune di Carmignano risultino prive di invaso ad indicare che non sussistono fenomeni esondativi in quel tratto.

Inoltre i grafici relativi agli sfioratori numero LS559, LS560, LS679, LS680, LS804, LS805, tutti posizionati in comune di Poggio a Caiano, mostrano come non sia presente portata in uscita dall'alveo (flow leaving).

2.2.7 *Risultati dei calcoli*

La modellazione idraulica ha mostrato come il fosso Colecchio non contribuisca alla condizione di rischio idraulico relativamente al Comune di Poggio a Caiano. In tutti gli scenari analizzati gli sfioratori laterali della parte terminale della modellazione non hanno portate in uscita dall'alveo.

Sostanzialmente il comportamento del fosso è tale per cui i contributi di portata provenienti dai bacini di monte non riescono a transitare al di sotto dei sottopassi realizzati in corrispondenza delle acque alte provenienti dalla collina, Rio Barberoni e Torrente Furba, e di conseguenza i fenomeni esondativi si ritrovano in territorio del comune di Quarrata ed in particolare nella zona di Bavigliano.

Le esondazioni in comune di Quarrata rimangono circoscritte a quel territorio e non vanno ad interessare i comuni limitrofi in quanto le arginature delle acque alte hanno funzione di cinta idraulica e non permettono scambi di massa.

Per tutta la documentazione numerica si rimanda agli allegati.

2.3 PUNTO C) COMMA 3

Il completamento della cassa di espansione sul Torrente Furba non ha nessuna utilità sulla condizione di rischio idraulico dell'area interessata dalla UMI 5 del PG Ombrone-Colecchio in quanto l'area non risente delle esondazioni del Torrente Furba ma solo dei ristagni dovuti alla mancata possibilità di scarico delle acque meteoriche nei corsi d'acqua circostanti in quanto tutti pensili. Il tutto è ben evidenziato nelle carte di pericolosità dove sono indicate le sezioni di tracimazione dei corsi d'acqua.

2.4 PUNTO C) COMMA 4

A seguito dell'incontro avuto con i tecnici del Genio Civile si ritiene di non procedere all'aggiornamento della carta P3 del Piano Strutturale in quanto non è modificato lo stato di avanzamento delle opere già inserite e, in relazione alle nuove opere sul Rio Montiloni, sono tutte ricomprese nell'aerale indicato in cartografia come "AREA DI RISTRUTTURAZIONE URBANISTICA VINCOLATA ALLA REALIZZAZIONE DI OPERE DI REGIMAZIONE IDRAULICA", dicitura che prevede quindi già la necessità di realizzare interventi di regimazione contestuali alla realizzazione degli interventi edilizi.

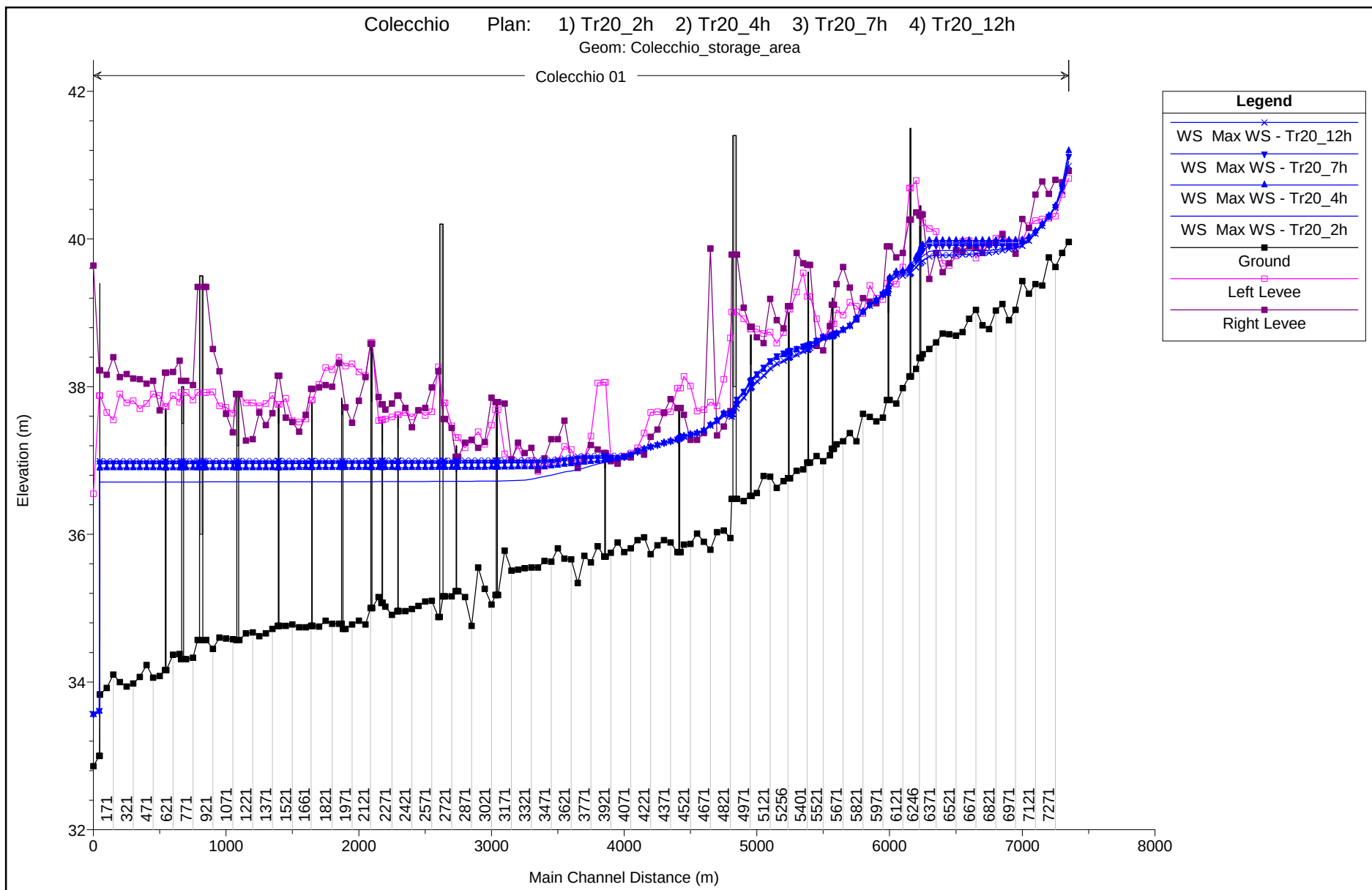
2.5 PUNTO C) COMMA 5

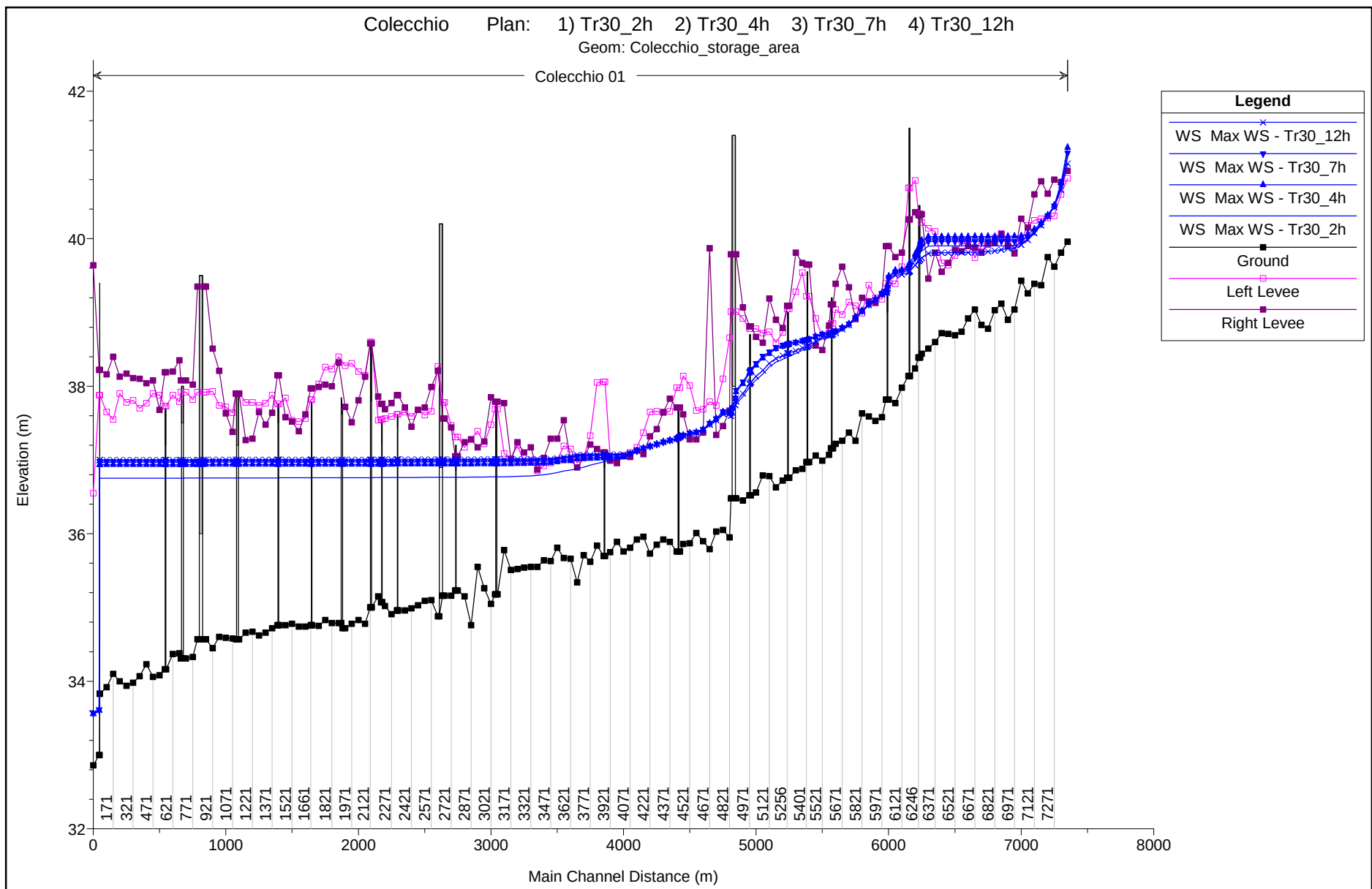
Le casse C5 e C6 hanno la funzione di laminare i picchi di piena del Rio Montiloni fino a livelli di portata che consentano di eliminare il rischio idraulico per tempi di ritorno di 200 anni da tutto il territorio posto in destra idraulica del Rio Montiloni a monte della via Regina Margherita.

FIRMA

DOTT. ING. DAVID MALOSSÌ

ALLEGATO 1

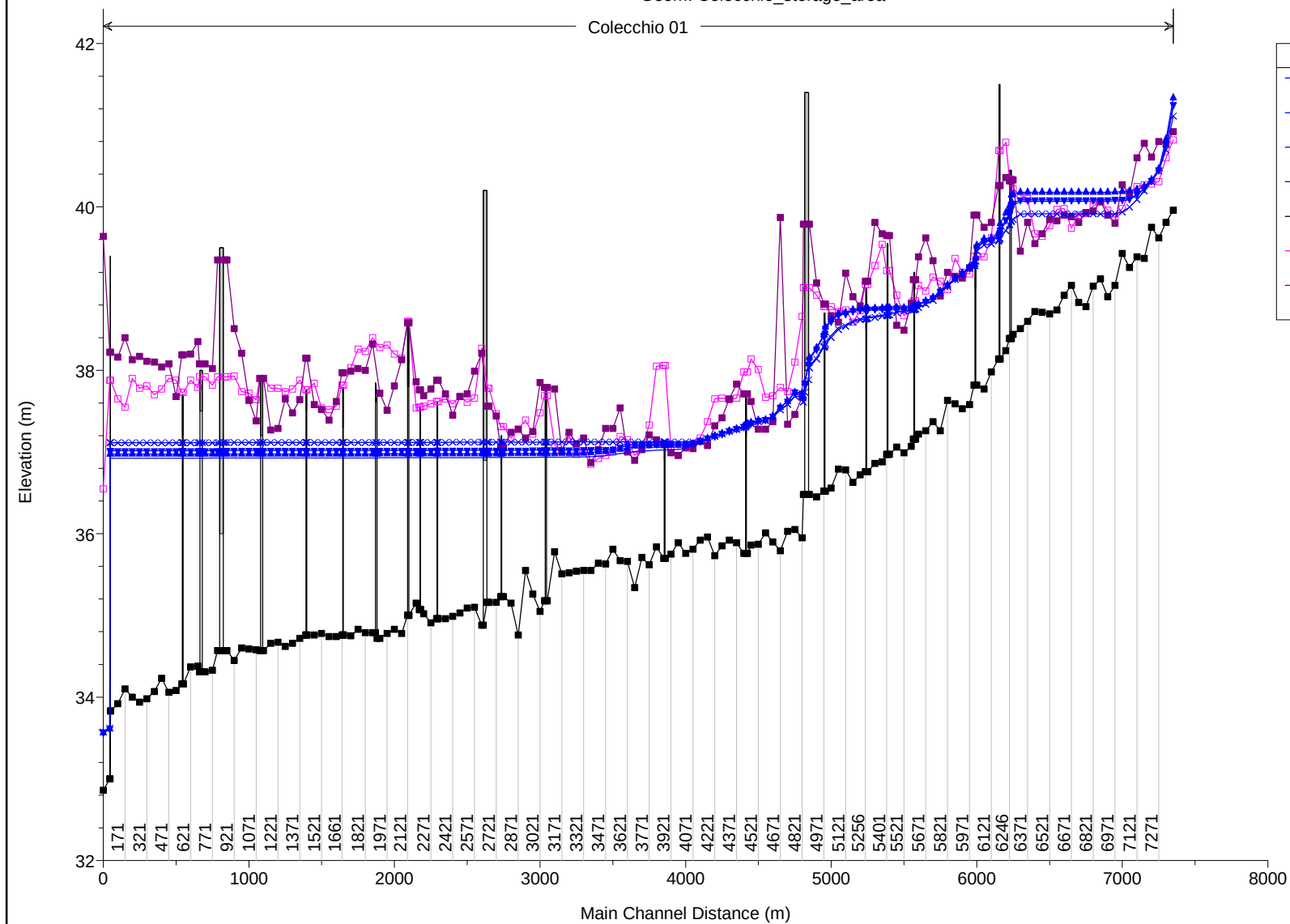




Colecchio Plan: 1) Tr100_2h 2) Tr100_4h 3) Tr100_7h 4) Tr100_12h

Geom: Colecchio_storage_area

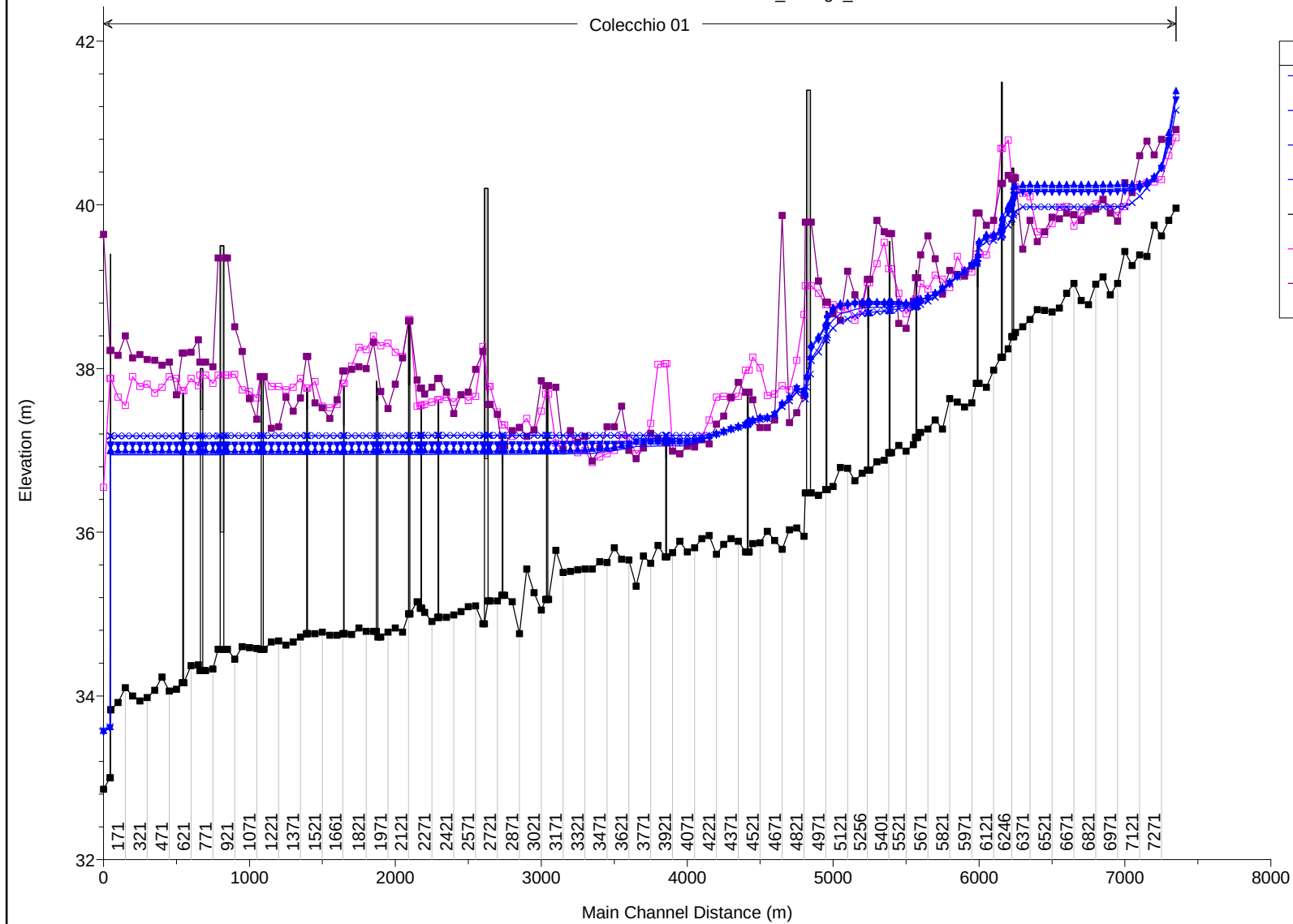
Colecchio 01



Colecchio Plan: 1) Tr200_2h 2) Tr200_4h 3) Tr200_7h 4) Tr200_12h

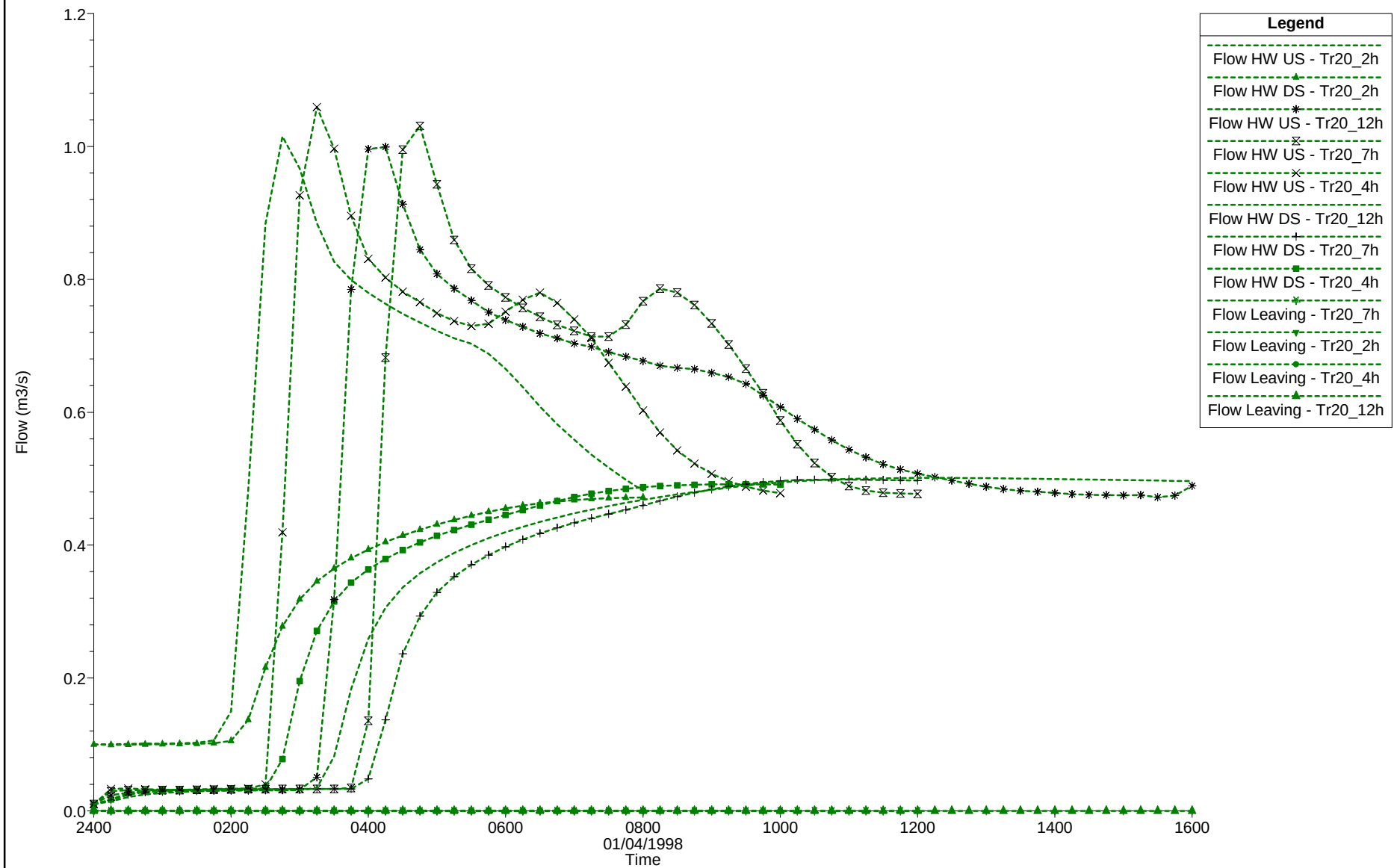
Geom: Colecchio_storage_area

Colecchio 01

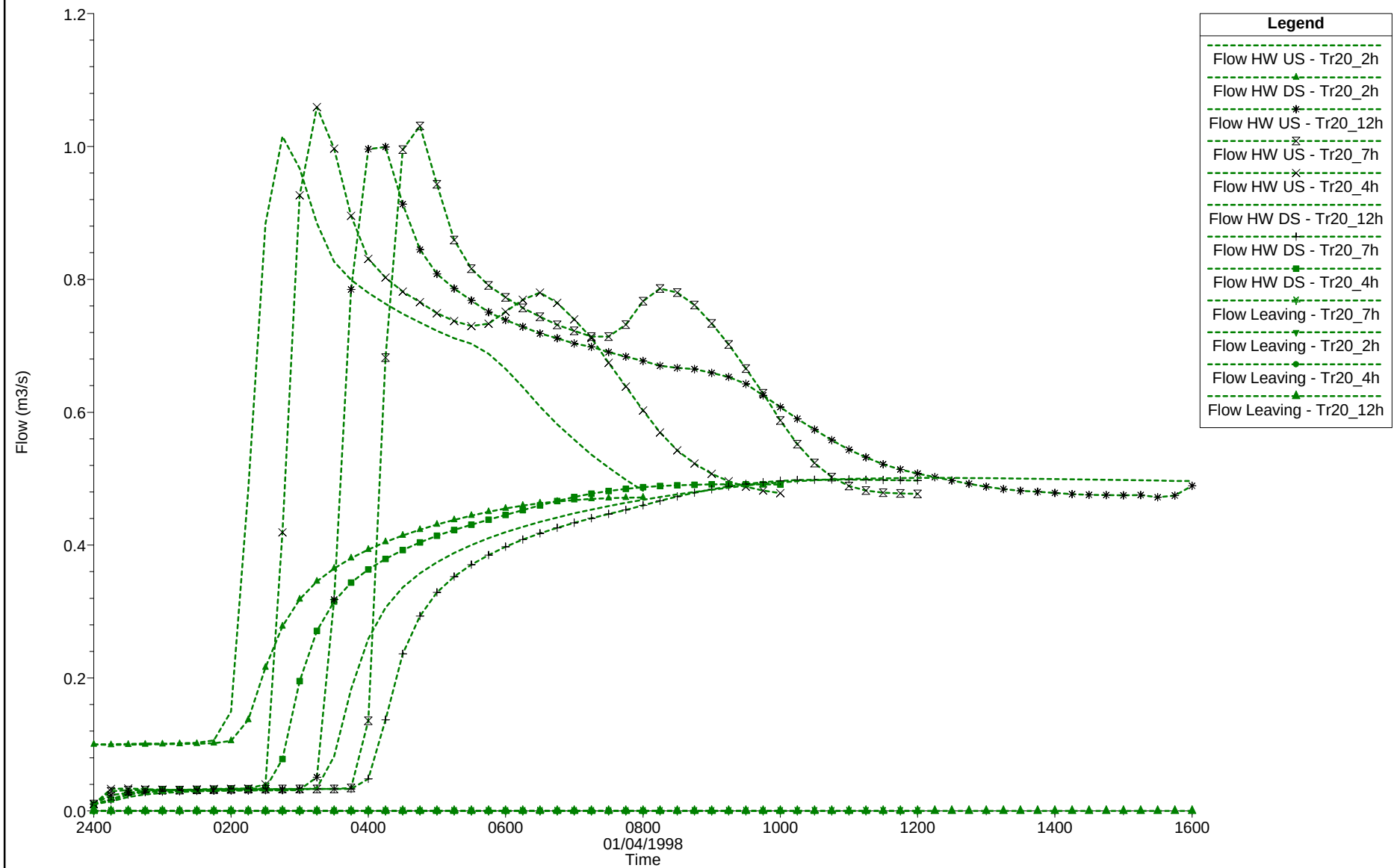


ALLEGATO 2

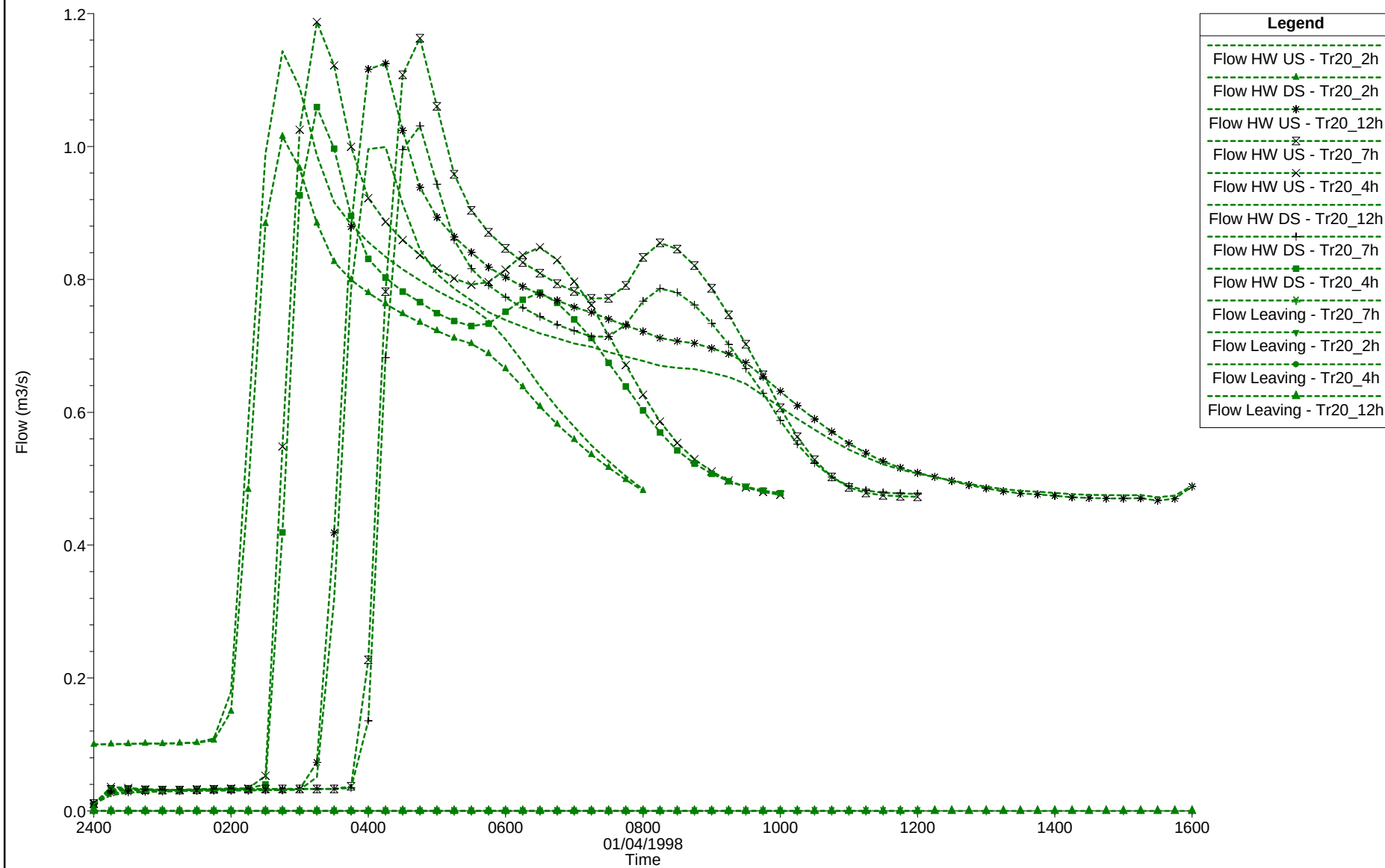
River: Colecchio Reach: 01 RS: 559



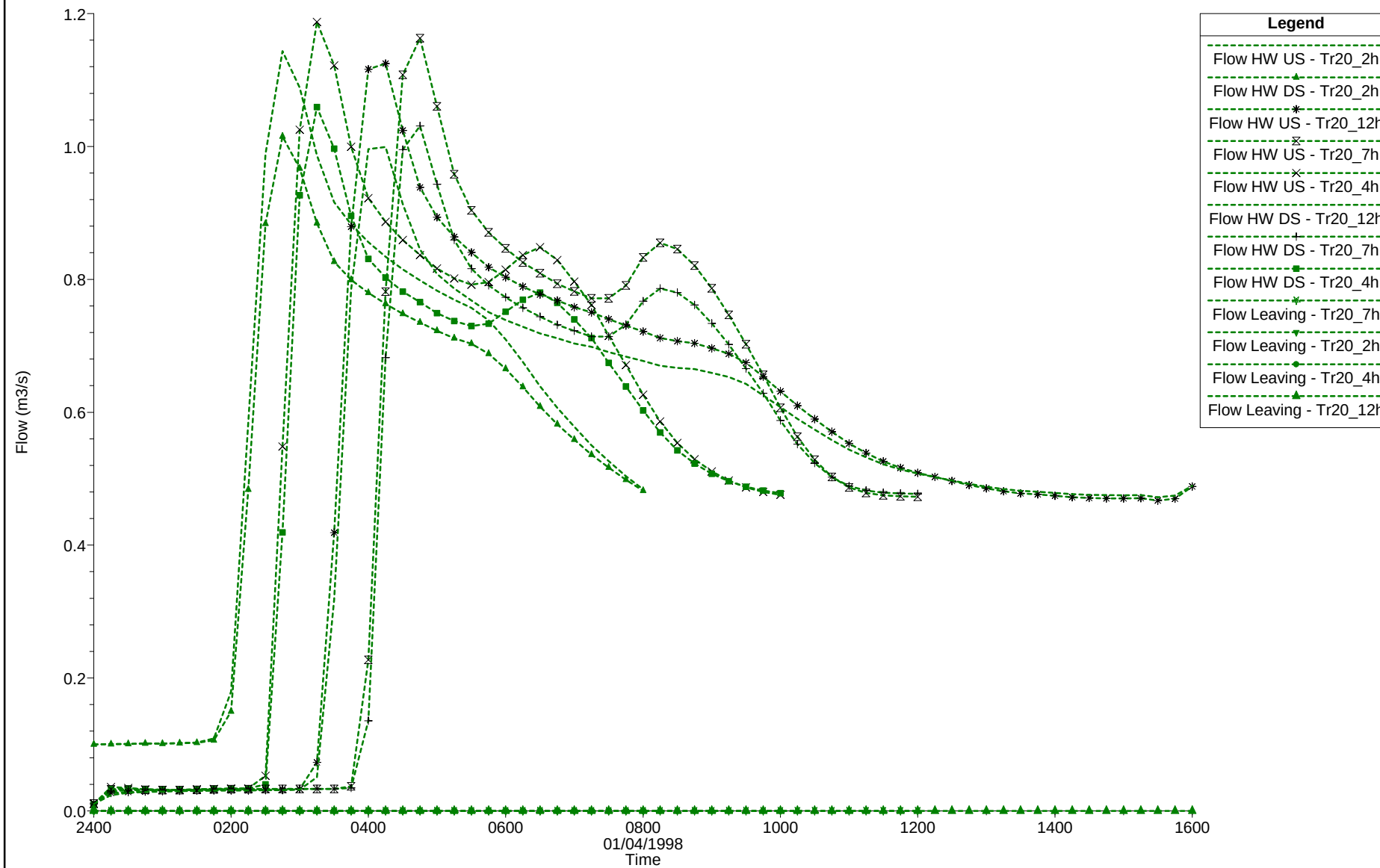
River: Colecchio Reach: 01 RS: 560



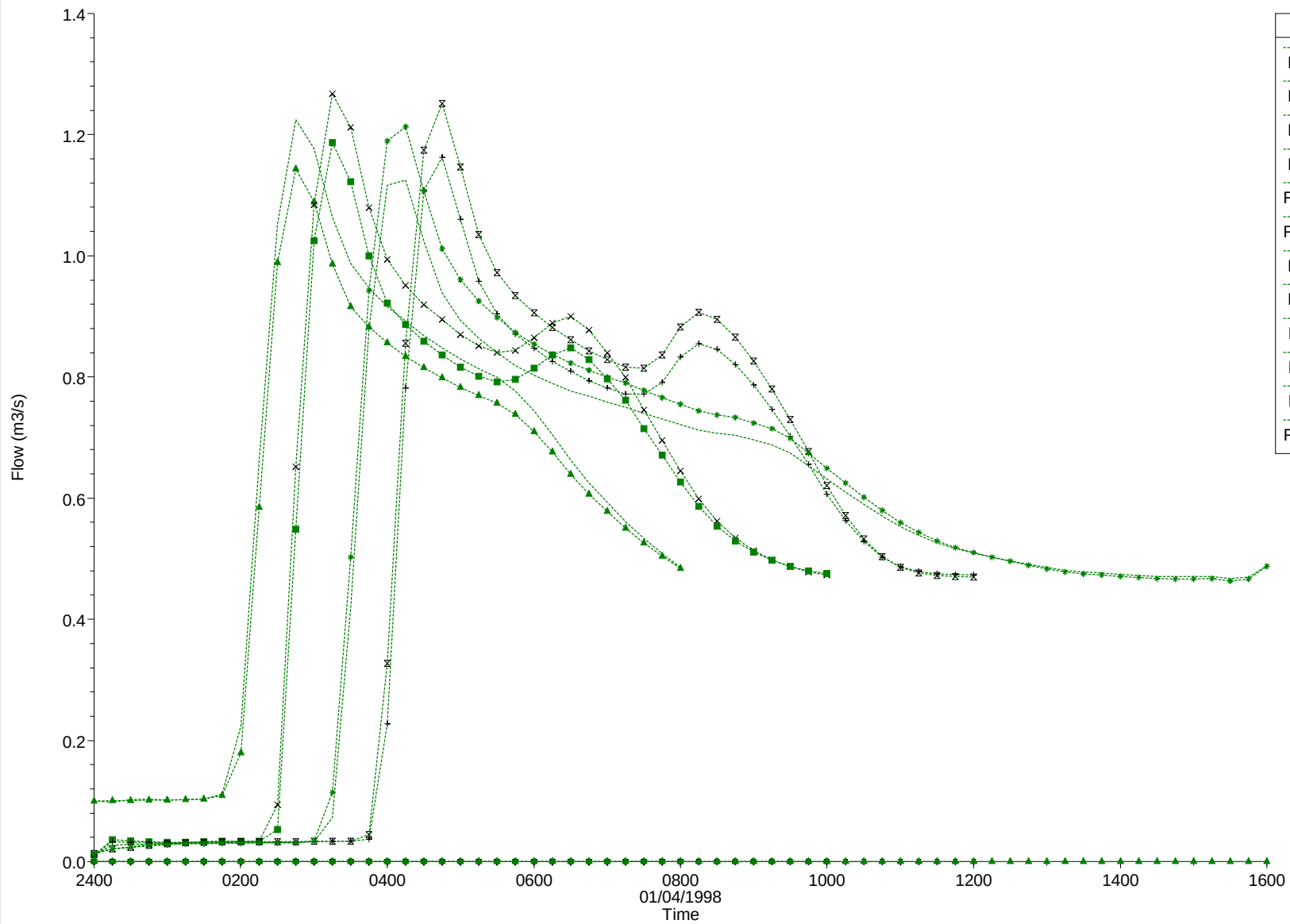
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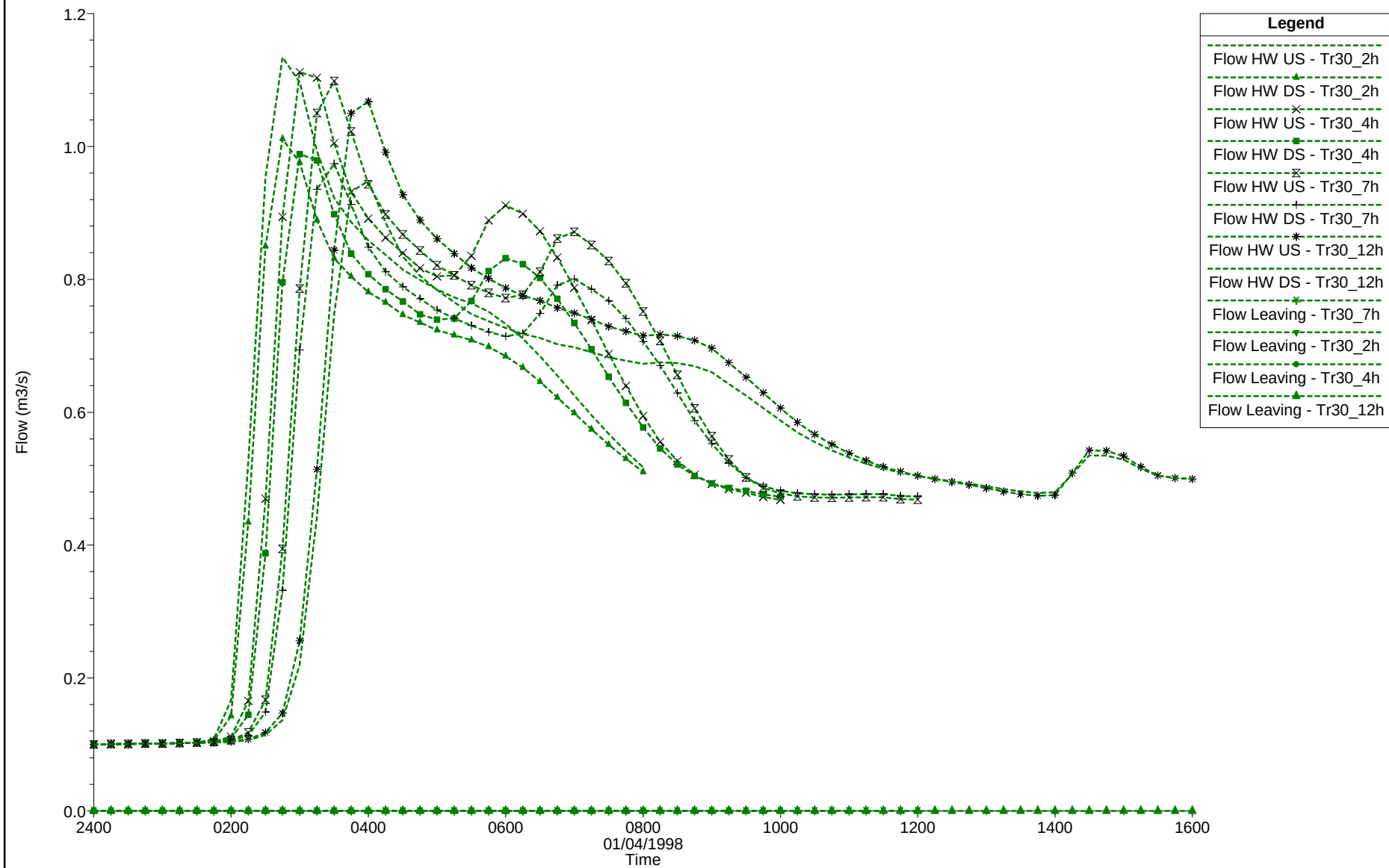
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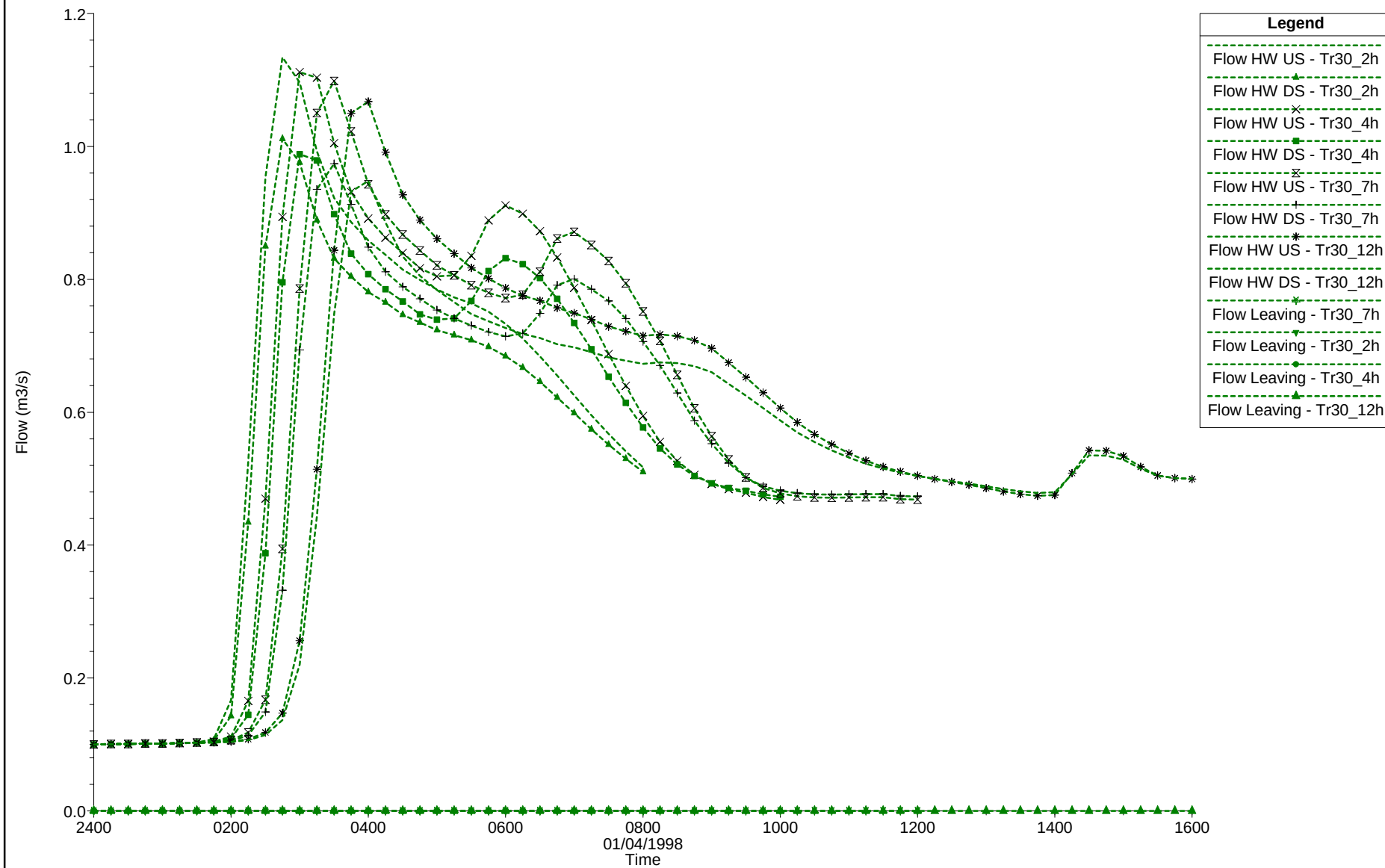
River: Colecchio Reach: 01 RS: 804



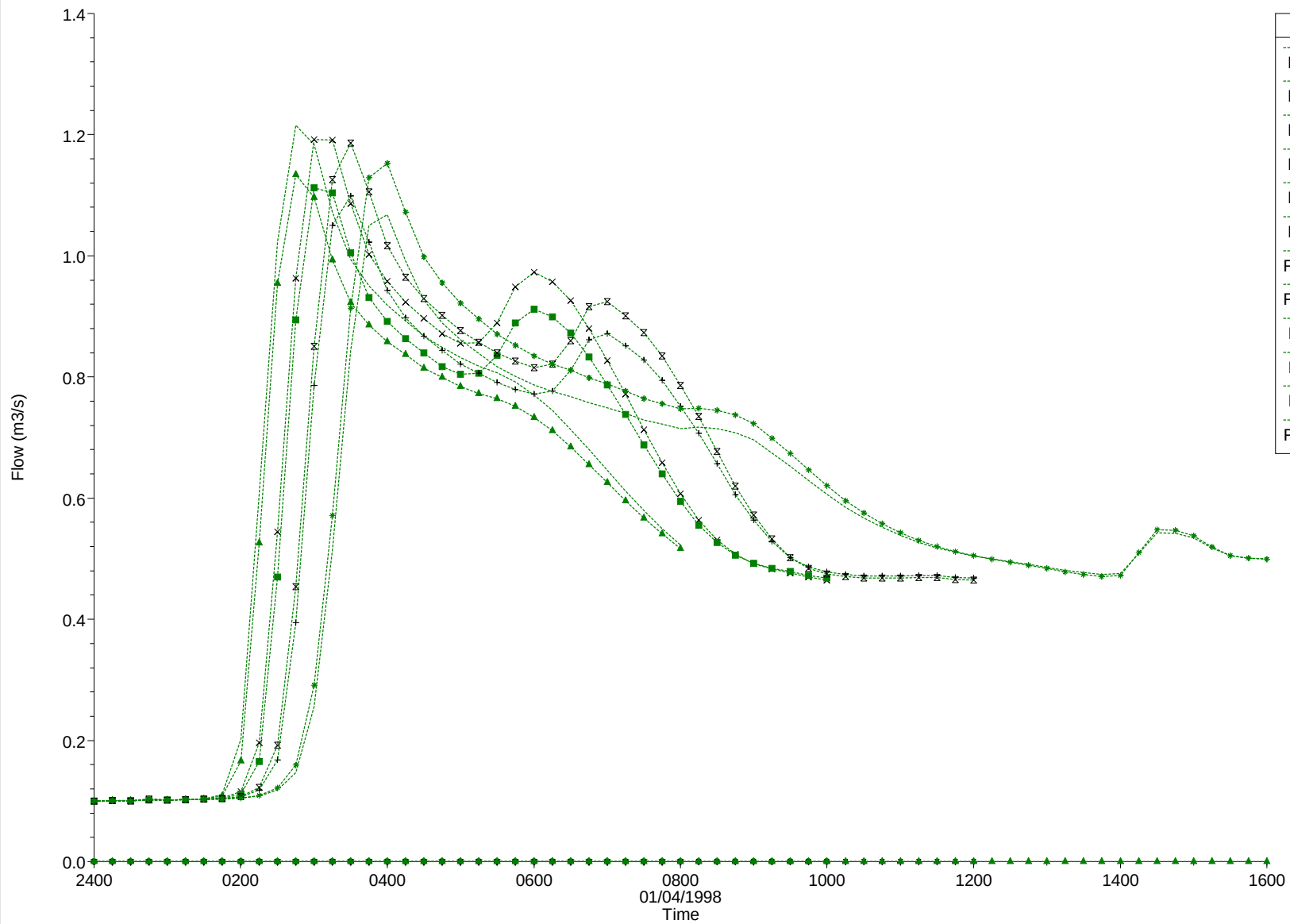
River: Colecchio Reach: 01 RS: 679



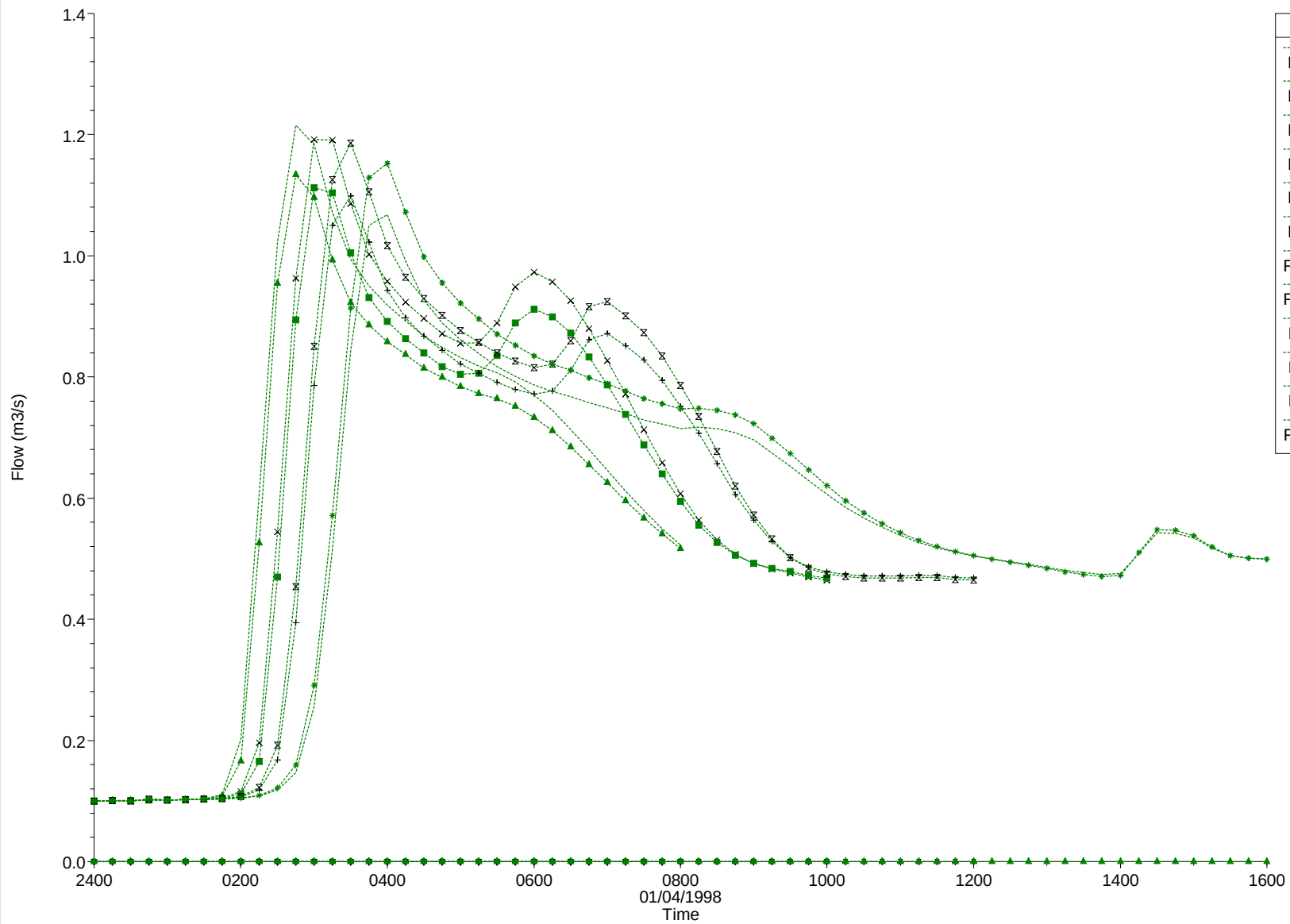
River: Colecchio Reach: 01 RS: 680



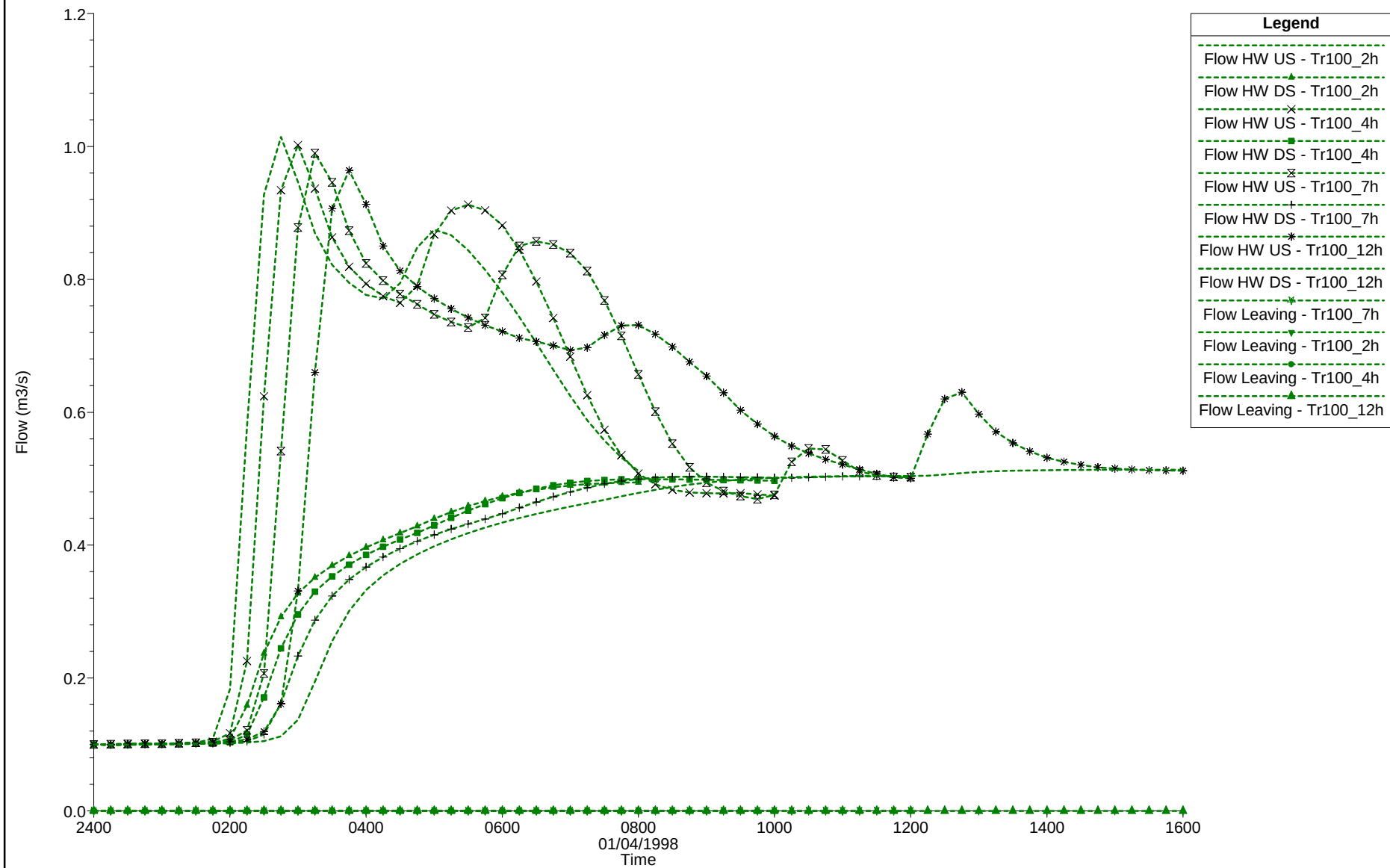
River: Colecchio Reach: 01 RS: 804



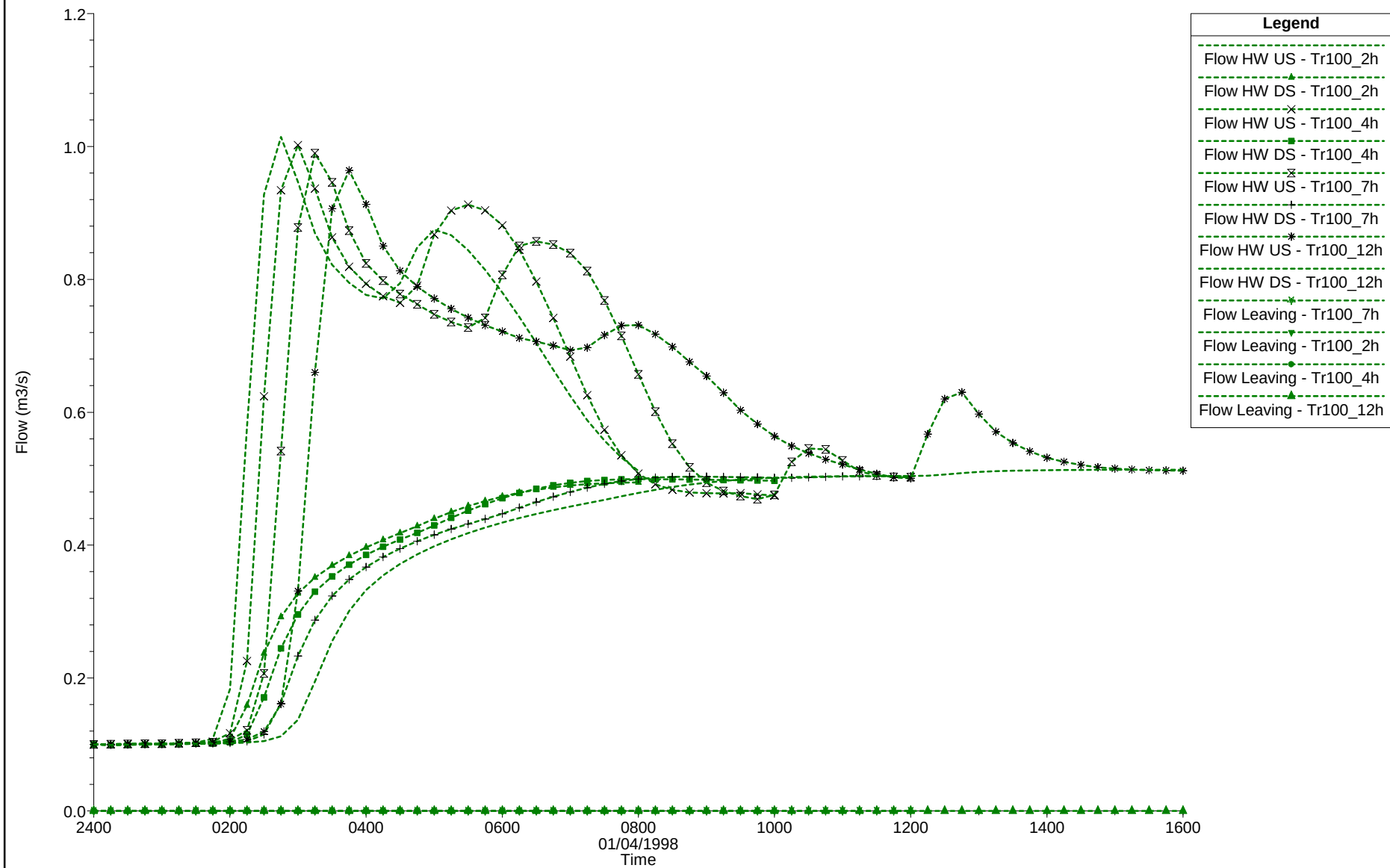
River: Colecchio Reach: 01 RS: 805



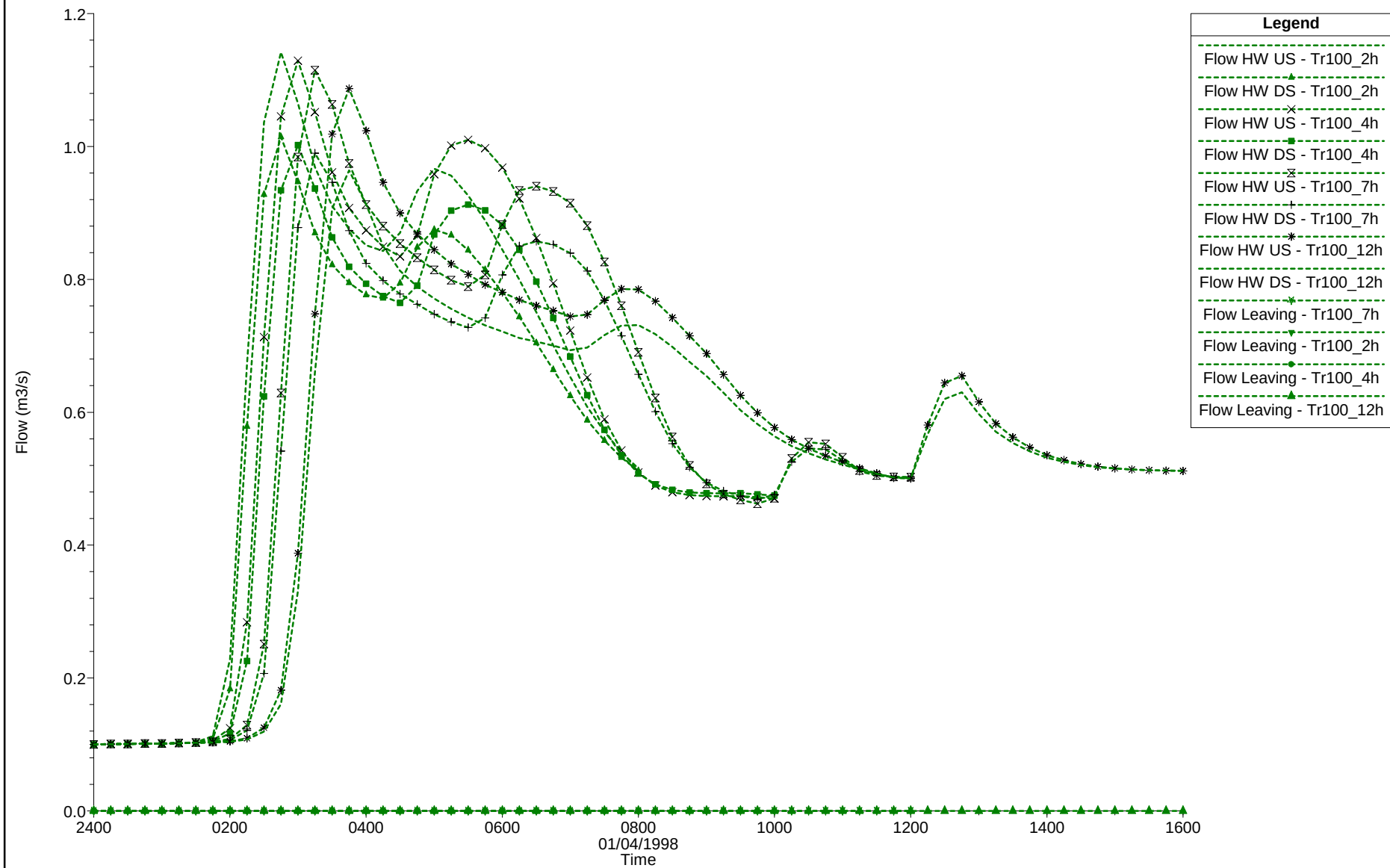
River: Colecchio Reach: 01 RS: 559



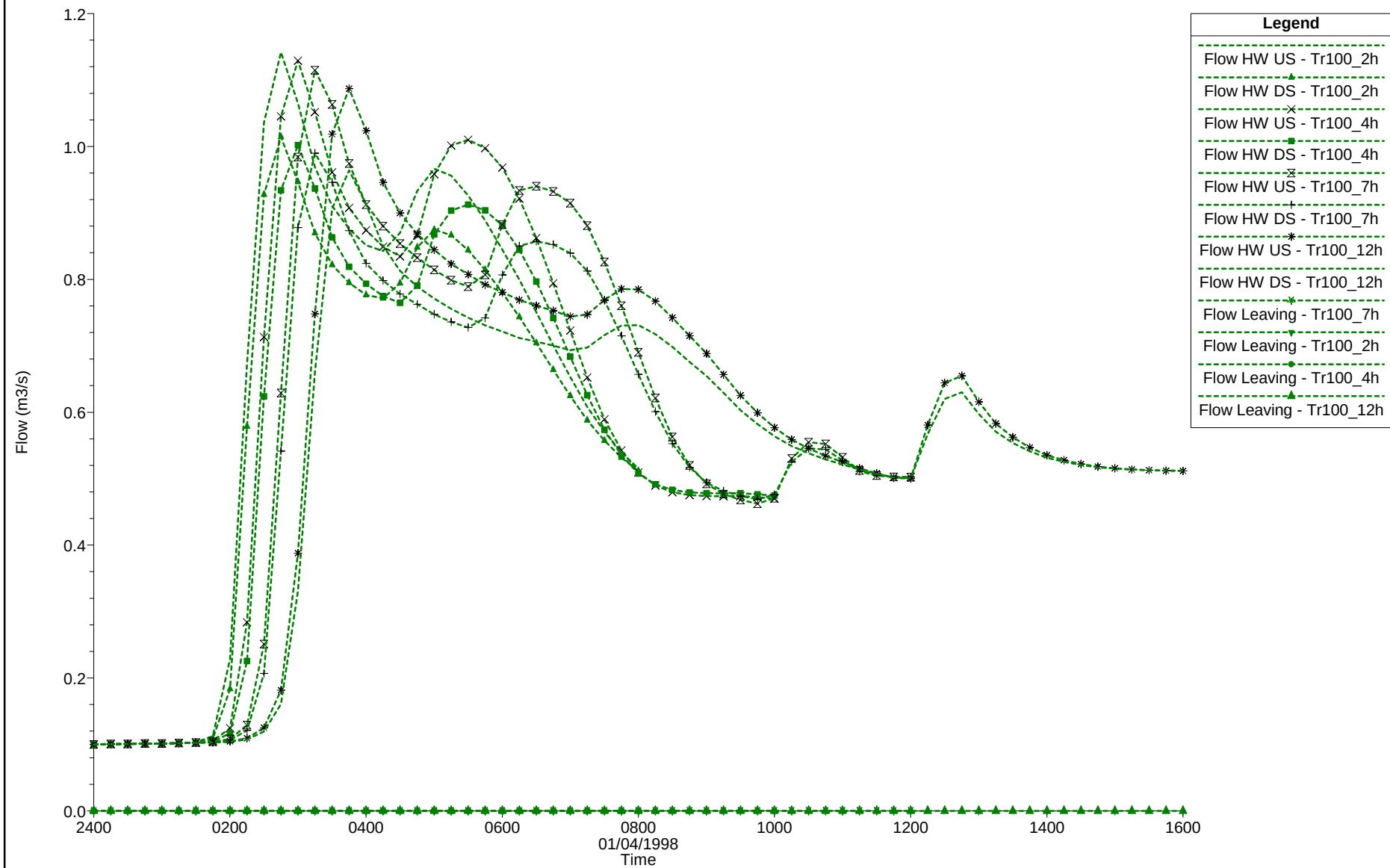
River: Colecchio Reach: 01 RS: 560



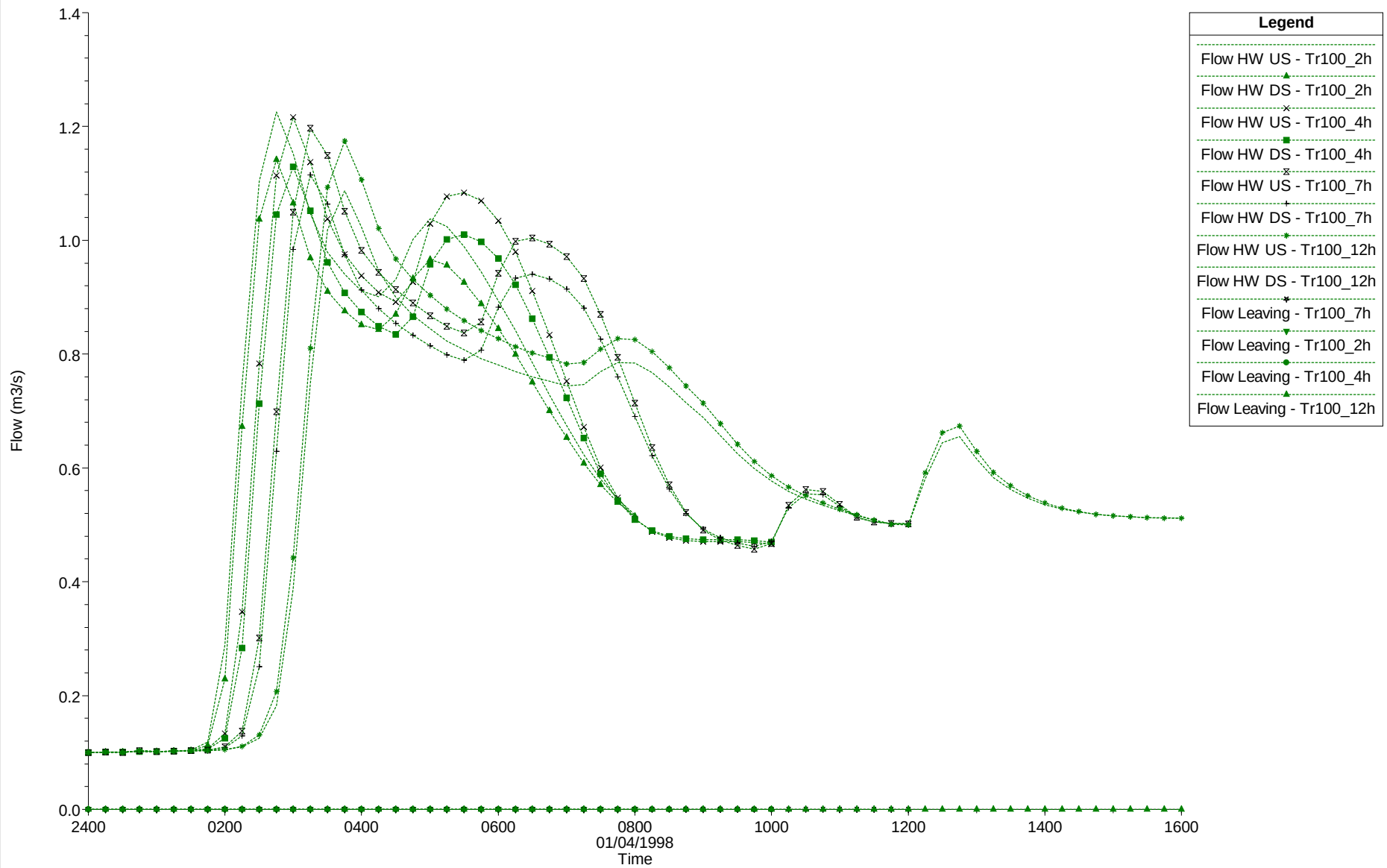
River: Colecchio Reach: 01 RS: 679



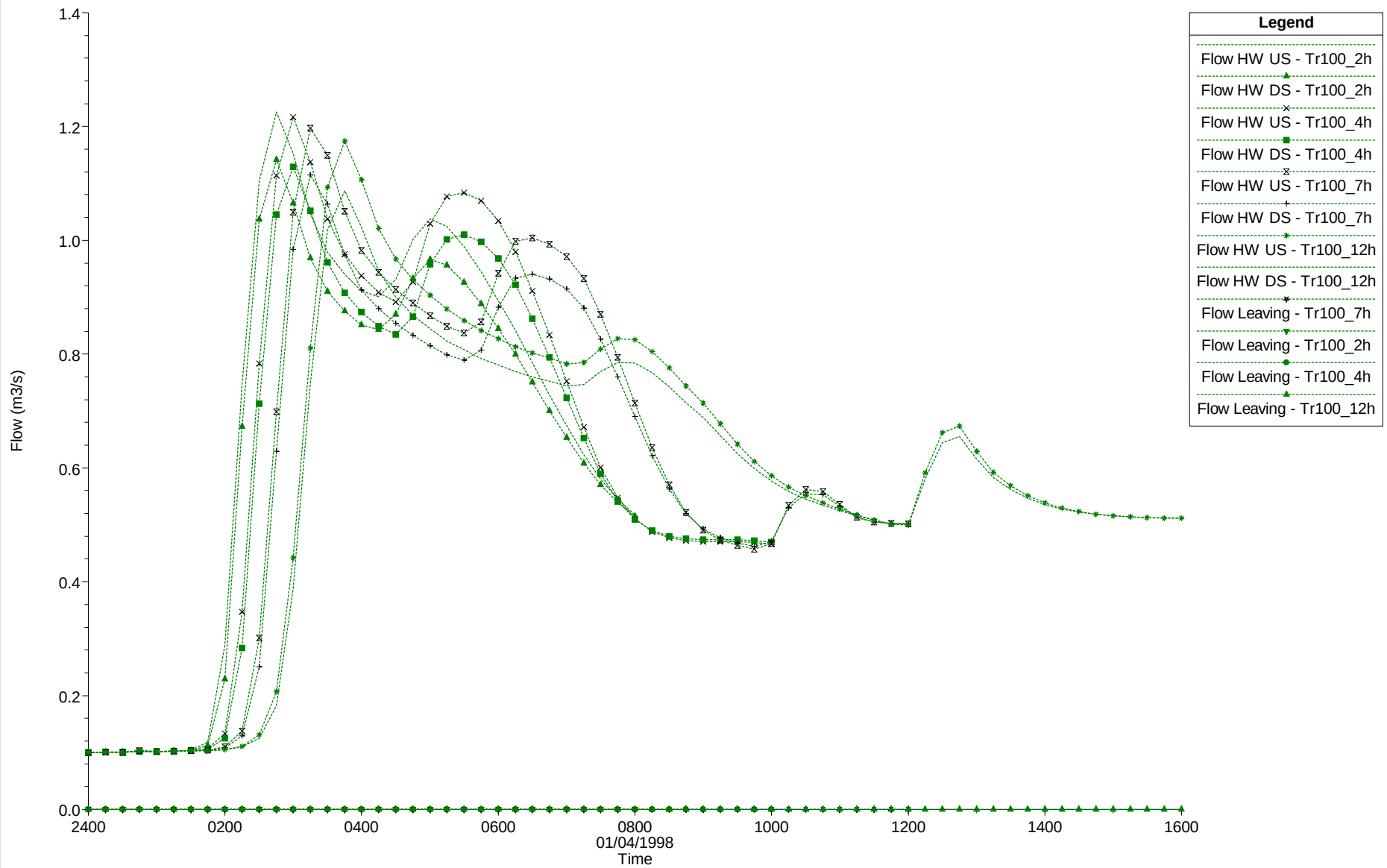
River: Colecchio Reach: 01 RS: 680



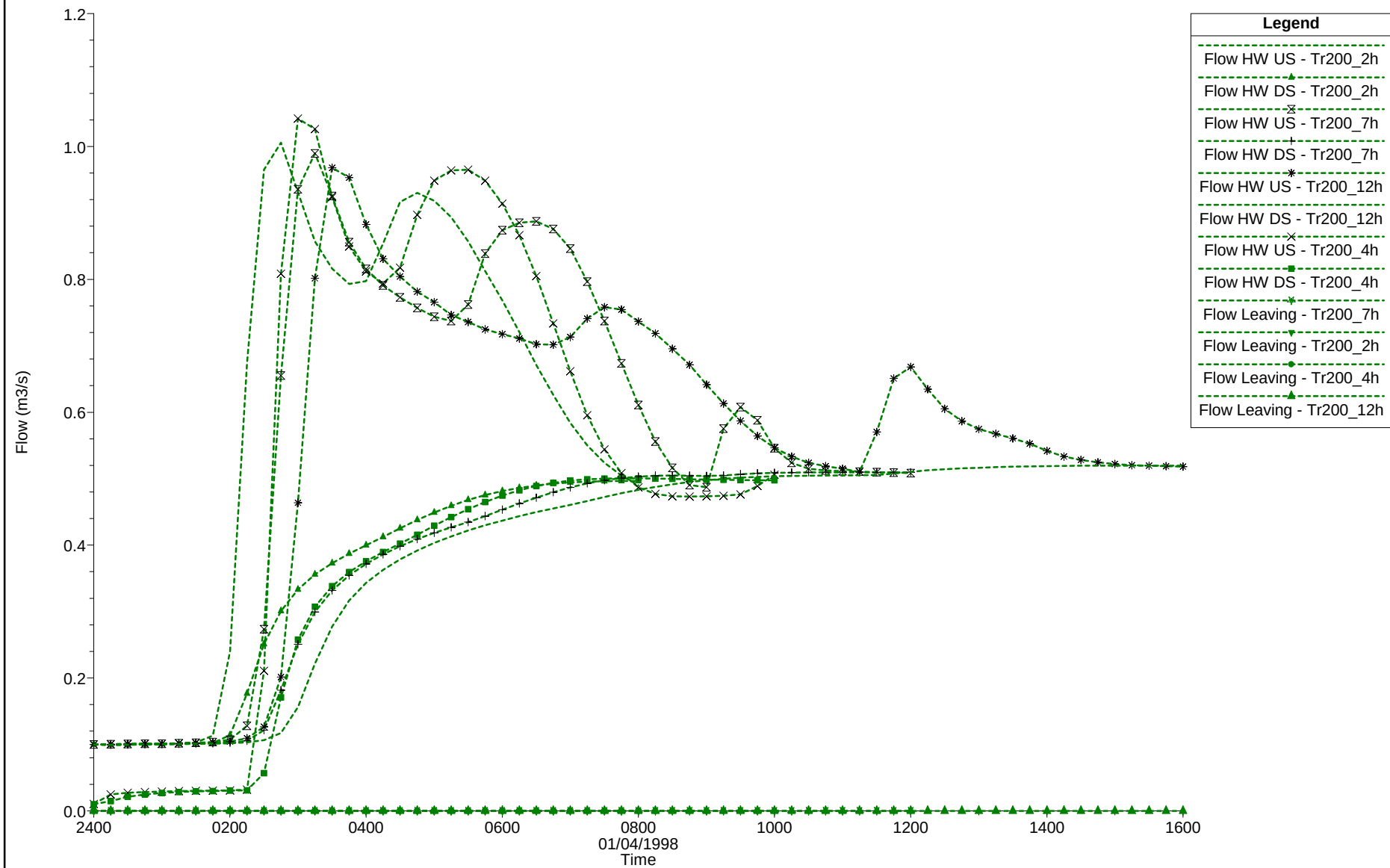
River: Colecchio Reach: 01 RS: 804



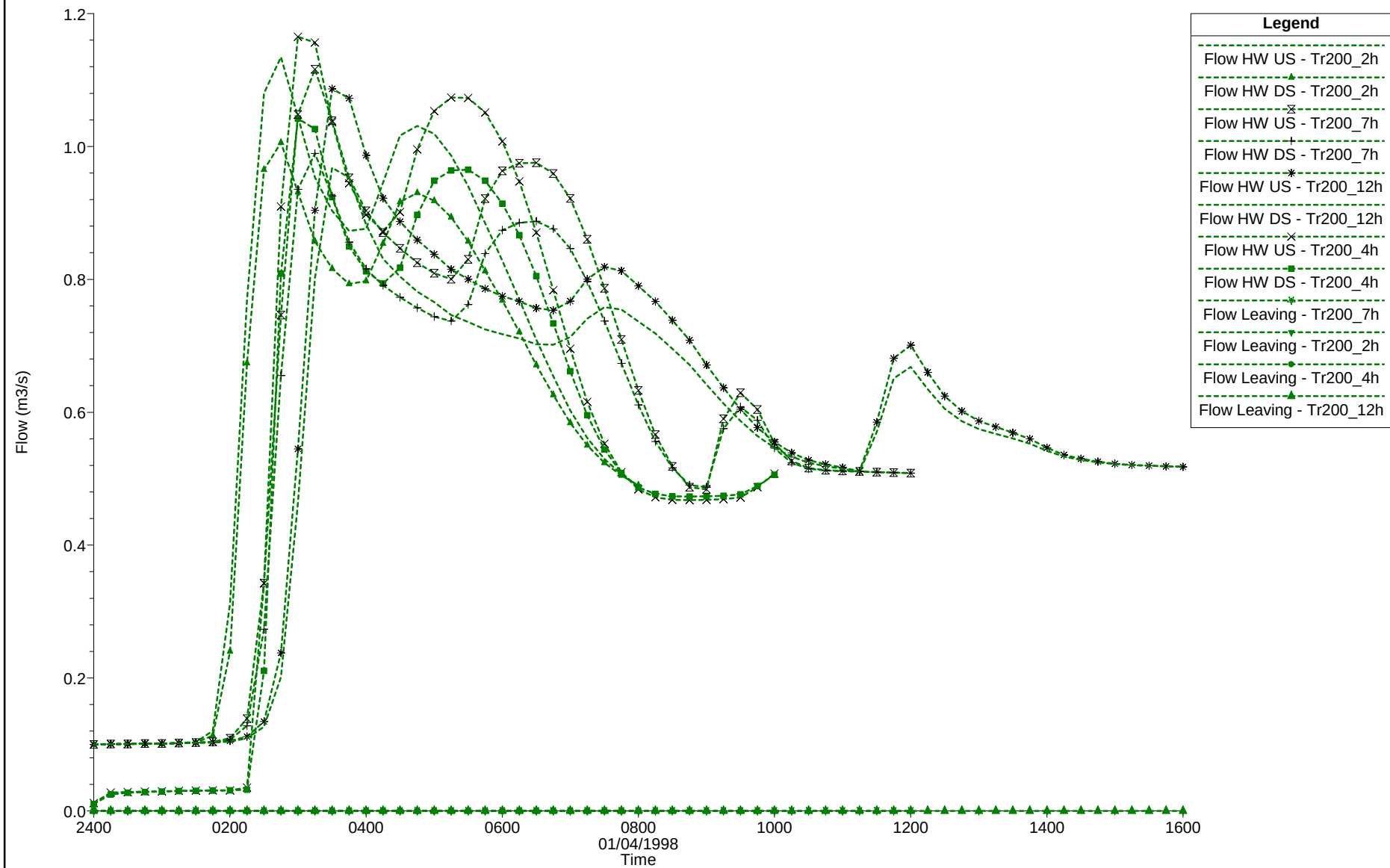
River: Colecchio Reach: 01 RS: 805



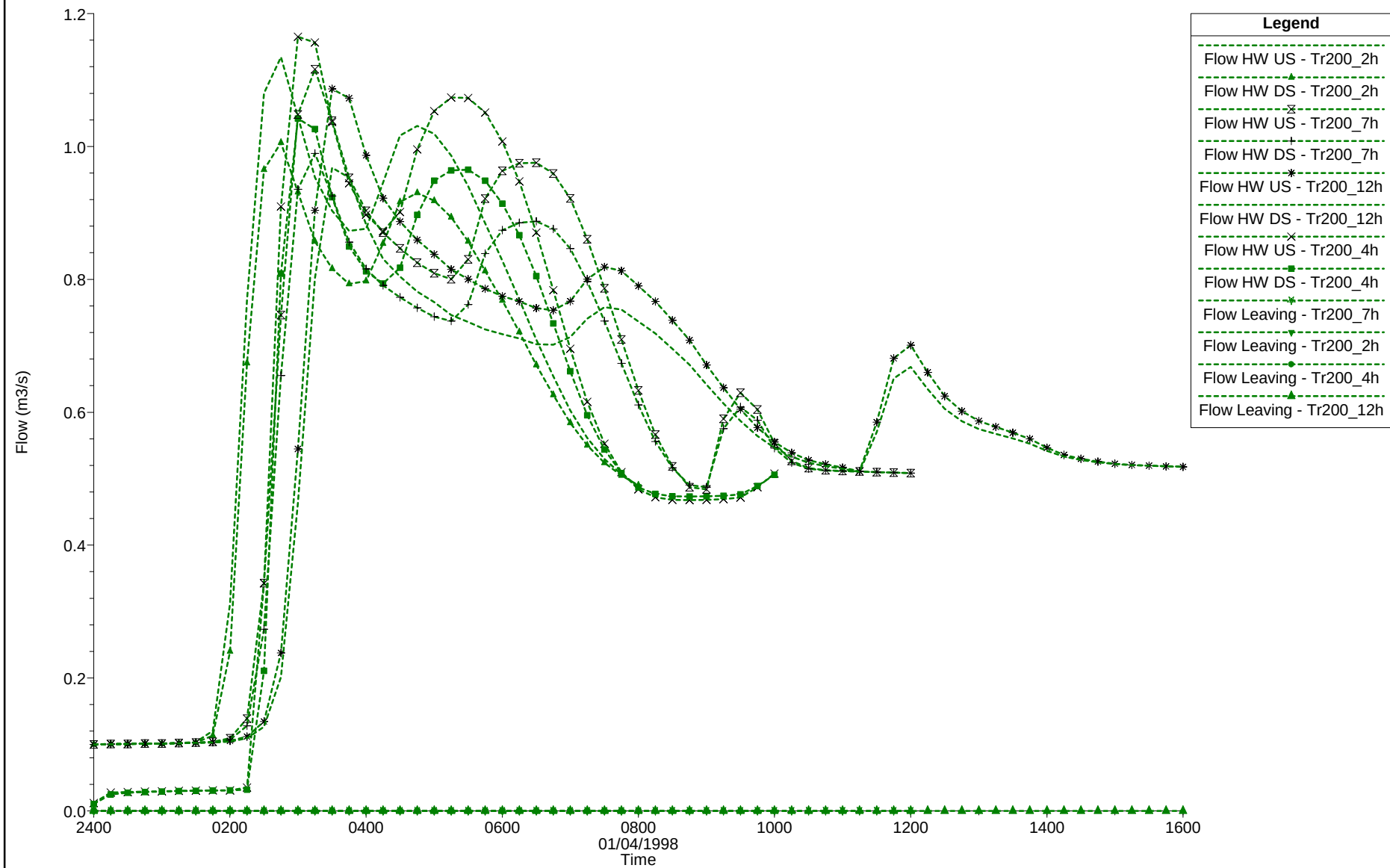
River: Colecchio Reach: 01 RS: 559



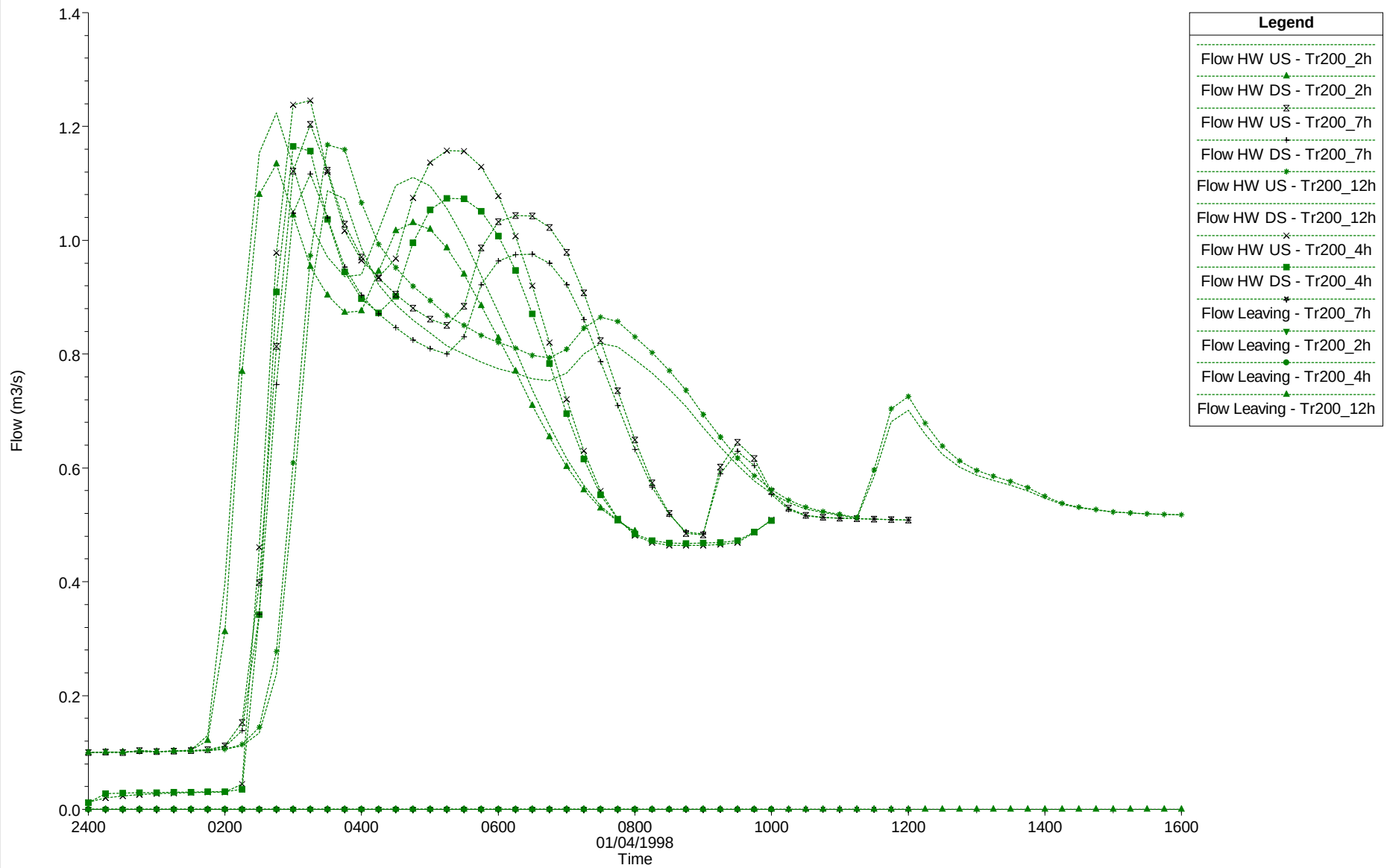
River: Colecchio Reach: 01 RS: 679



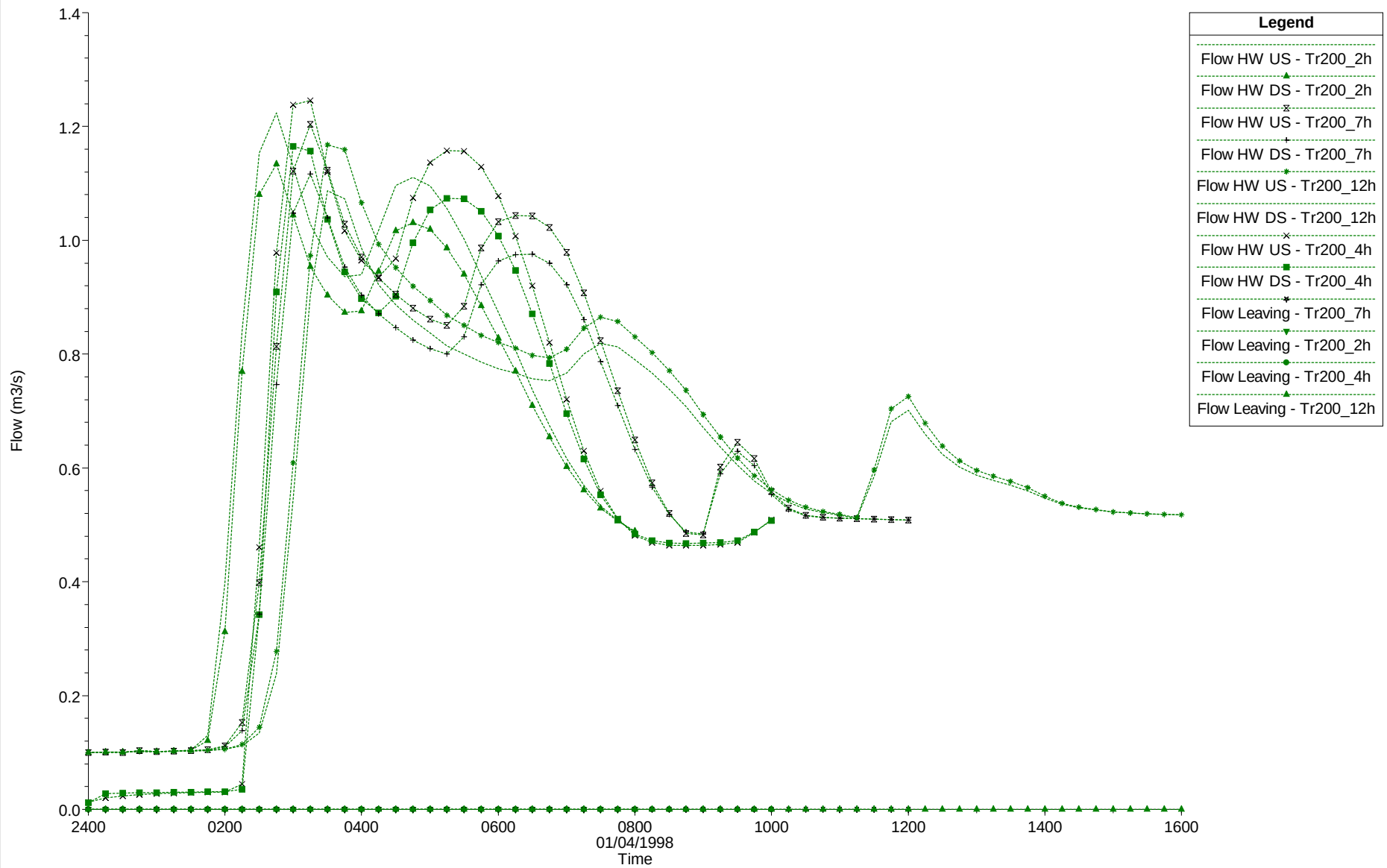
River: Colecchio Reach: 01 RS: 680



River: Colecchio Reach: 01 RS: 804



River: Colecchio Reach: 01 RS: 805



ALLEGATO 3

HEC-RAS River: Colechio Reach: 01 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	7371	Max WS	Tr20_2h	3.04	39.96	41.05		41.09	0.001856	0.94	3.79	9.00	0.35
01	7371	Max WS	Tr20_4h	4.18	39.96	41.19		41.24	0.001615	0.99	5.10	9.00	0.34
01	7371	Max WS	Tr20_7h	3.55	39.96	41.12		41.16	0.001694	0.96	4.44	9.00	0.34
01	7371	Max WS	Tr20_12h	2.65	39.96	40.99		41.03	0.002035	0.93	3.24	9.00	0.36
01	7321	Max WS	Tr20_2h	3.04	39.81	40.67		40.79	0.010684	1.55	1.96	4.60	0.76
01	7321	Max WS	Tr20_4h	4.17	39.81	40.73		40.91	0.013561	1.85	2.26	4.86	0.86
01	7321	Max WS	Tr20_7h	3.55	39.81	40.70		40.85	0.012125	1.70	2.09	4.72	0.81
01	7321	Max WS	Tr20_12h	2.65	39.81	40.65		40.75	0.009436	1.43	1.85	4.51	0.71
01	7320		Lat Struct										
01	7319		Lat Struct										
01	7271	Max WS	Tr20_2h	1.72	39.62	40.43		40.49	0.005029	1.02	1.77	5.25	0.52
01	7271	Max WS	Tr20_4h	2.04	39.62	40.45		40.52	0.006281	1.16	1.84	5.28	0.59
01	7271	Max WS	Tr20_7h	1.87	39.62	40.44		40.50	0.005655	1.09	1.80	5.27	0.56
01	7271	Max WS	Tr20_12h	1.58	39.62	40.43		40.47	0.004516	0.95	1.73	5.24	0.49
01	7221	Max WS	Tr20_2h	0.79	39.75	40.30		40.32	0.003621	0.71	1.31	7.68	0.43
01	7221	Max WS	Tr20_4h	0.87	39.75	40.32		40.34	0.003544	0.72	1.42	7.72	0.43
01	7221	Max WS	Tr20_7h	0.83	39.75	40.31		40.33	0.003554	0.71	1.37	7.70	0.43
01	7221	Max WS	Tr20_12h	0.76	39.75	40.29		40.32	0.003717	0.71	1.26	7.66	0.43
01	7171	Max WS	Tr20_2h	0.78	39.37	40.19		40.20	0.001474	0.54	1.54	6.39	0.28
01	7171	Max WS	Tr20_4h	0.82	39.37	40.20		40.22	0.001408	0.54	1.67	6.84	0.27
01	7171	Max WS	Tr20_7h	0.81	39.37	40.20		40.21	0.001458	0.54	1.60	6.61	0.28
01	7171	Max WS	Tr20_12h	0.76	39.37	40.18		40.19	0.001473	0.54	1.49	6.18	0.28
01	7121	Max WS	Tr20_2h	0.78	39.39	40.08		40.10	0.002574	0.67	1.18	3.50	0.37
01	7121	Max WS	Tr20_4h	0.82	39.39	40.11		40.13	0.002262	0.64	1.28	3.70	0.35
01	7121	Max WS	Tr20_7h	0.81	39.39	40.09		40.11	0.002506	0.66	1.22	3.58	0.36
01	7121	Max WS	Tr20_12h	0.76	39.39	40.07		40.09	0.002573	0.66	1.15	3.44	0.37
01	7071	Max WS	Tr20_2h	0.78	39.26	39.99		40.00	0.001492	0.54	1.45	3.94	0.28
01	7071	Max WS	Tr20_4h	0.81	39.26	40.03		40.04	0.001247	0.50	1.63	4.40	0.26
01	7071	Max WS	Tr20_7h	0.80	39.26	40.00		40.01	0.001454	0.53	1.51	4.08	0.28
01	7071	Max WS	Tr20_12h	0.76	39.26	39.98		39.99	0.001465	0.53	1.42	3.84	0.28
01	7021	Max WS	Tr20_2h	0.78	39.43	39.92		39.93	0.001312	0.49	1.70	7.94	0.27
01	7021	Max WS	Tr20_4h	0.81	39.43	39.99		39.99	0.000713	0.40	2.33	10.82	0.20
01	7021	Max WS	Tr20_7h	0.80	39.43	39.94		39.95	0.001134	0.47	1.85	8.45	0.25
01	7021	Max WS	Tr20_12h	0.76	39.43	39.91		39.92	0.001344	0.49	1.63	7.72	0.27
01	6971	Max WS	Tr20_2h	0.71	39.04	39.88		39.89	0.000498	0.37	1.99	5.00	0.17
01	6971	Max WS	Tr20_4h	0.15	39.04	39.98		39.98	0.000012	0.06	2.50	5.00	0.03
01	6971	Max WS	Tr20_7h	0.58	39.04	39.91		39.92	0.000263	0.28	2.16	5.00	0.12
01	6971	Max WS	Tr20_12h	0.71	39.04	39.87		39.88	0.000537	0.38	1.94	5.00	0.18
01	6921	Max WS	Tr20_2h	0.42	38.90	39.88		39.88	0.000069	0.13	3.33	12.88	0.06
01	6921	Max WS	Tr20_4h	0.20	38.90	39.98		39.98	0.000007	0.05	4.79	14.00	0.02
01	6921	Max WS	Tr20_7h	0.07	38.90	39.91		39.91	0.000002	0.02	3.84	13.74	0.01
01	6921	Max WS	Tr20_12h	0.51	38.90	39.86		39.86	0.000113	0.17	3.15	12.53	0.08
01	6880		Lat Struct										
01	6879		Lat Struct										
01	6871	Max WS	Tr20_2h	0.42	39.12	39.87		39.87	0.000245	0.24	1.75	4.10	0.12
01	6871	Max WS	Tr20_4h	0.09	39.12	39.98		39.98	0.000006	0.04	2.26	4.79	0.02
01	6871	Max WS	Tr20_7h	0.07	39.12	39.91		39.91	0.000005	0.04	1.95	4.39	0.02
01	6871	Max WS	Tr20_12h	0.51	39.12	39.85		39.85	0.000411	0.31	1.67	3.99	0.15
01	6821	Max WS	Tr20_2h	0.42	39.03	39.85		39.86	0.000224	0.23	1.82	4.26	0.11
01	6821	Max WS	Tr20_4h	0.05	39.03	39.98		39.98	0.000002	0.02	2.48	6.57	0.01
01	6821	Max WS	Tr20_7h	0.07	39.03	39.91		39.91	0.000005	0.03	2.09	4.75	0.02
01	6821	Max WS	Tr20_12h	0.51	39.03	39.83		39.83	0.000387	0.30	1.71	4.03	0.15
01	6820		Lat Struct										
01	6819		Lat Struct										
01	6771	Max WS	Tr20_2h	0.42	38.78	39.85		39.85	0.000099	0.18	2.37	7.78	0.08
01	6771	Max WS	Tr20_4h	0.01	38.78	39.98		39.98	0.000000	0.00	4.02	14.00	0.00
01	6771	Max WS	Tr20_7h	0.07	38.78	39.91		39.91	0.000002	0.03	3.08	13.38	0.01
01	6771	Max WS	Tr20_12h	0.51	38.78	39.81		39.82	0.000178	0.24	2.18	4.82	0.10
01	6721	Max WS	Tr20_2h	0.39	38.83	39.84		39.84	0.000071	0.15	3.06	13.00	0.07
01	6721	Max WS	Tr20_4h	-0.07	38.83	39.98		39.98	0.000001	-0.02	4.84	13.00	0.01
01	6721	Max WS	Tr20_7h	-0.04	38.83	39.91		39.91	0.000000	-0.01	3.97	13.00	0.00
01	6721	Max WS	Tr20_12h	0.51	38.83	39.81		39.81	0.000170	0.21	2.62	10.69	0.10
01	6671	Max WS	Tr20_2h	0.12	39.04	39.84		39.84	0.000011	0.05	2.39	7.63	0.03
01	6671	Max WS	Tr20_4h	-0.05	39.04	39.98		39.98	0.000001	-0.02	3.48	8.00	0.01
01	6671	Max WS	Tr20_7h	-0.09	39.04	39.91		39.91	0.000004	-0.03	2.95	8.00	0.01
01	6671	Max WS	Tr20_12h	0.36	39.04	39.80		39.80	0.000154	0.18	2.07	7.20	0.09
01	6621	Max WS	Tr20_2h	0.09	38.92	39.84		39.84	0.000013	0.06	1.68	3.60	0.03
01	6621	Max WS	Tr20_4h	0.07	38.92	39.98		39.98	0.000003	0.03	2.29	5.00	0.01
01	6621	Max WS	Tr20_7h	0.11	38.92	39.91		39.91	0.000013	0.06	1.96	4.91	0.03
01	6621	Max WS	Tr20_12h	0.30	38.92	39.79		39.79	0.000173	0.20	1.50	3.33	0.10
01	6571	Max WS	Tr20_2h	0.09	38.74	39.84		39.84	0.000003	0.04	2.55	5.88	0.01
01	6571	Max WS	Tr20_4h	-0.13	38.74	39.98		39.98	0.000004	-0.04	3.58	10.00	0.02

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6571	Max WS	Tr20_7h	-0.06	38.74	39.91		39.91	0.000001	-0.02	3.01	7.45	0.01
01	6571	Max WS	Tr20_12h	0.30	38.74	39.79		39.79	0.000056	0.13	2.26	4.29	0.06
01	6521	Max WS	Tr20_2h	0.14	38.69	39.84		39.84	0.000006	0.04	3.48	11.00	0.02
01	6521	Max WS	Tr20_4h	0.03	38.69	39.98		39.98	0.000000	0.01	4.99	11.00	0.00
01	6521	Max WS	Tr20_7h	-0.10	38.69	39.91		39.91	0.000002	-0.03	4.26	11.00	0.01
01	6521	Max WS	Tr20_12h	0.30	38.69	39.79		39.79	0.000041	0.11	2.89	9.97	0.05
01	6471	Max WS	Tr20_2h	0.41	38.71	39.84		39.84	0.000012	0.07	7.39	18.00	0.03
01	6471	Max WS	Tr20_4h	0.06	38.71	39.98		39.98	0.000000	0.01	9.89	18.00	0.00
01	6471	Max WS	Tr20_7h	0.06	38.71	39.91		39.91	0.000000	0.01	8.68	18.00	0.00
01	6471	Max WS	Tr20_12h	0.64	38.71	39.78		39.78	0.000043	0.13	6.33	18.00	0.05
01	6421	Max WS	Tr20_2h	0.15	38.72	39.84		39.84	0.000004	0.04	4.11	8.00	0.02
01	6421	Max WS	Tr20_4h	0.05	38.72	39.98		39.98	0.000000	0.01	5.22	8.00	0.00
01	6421	Max WS	Tr20_7h	-0.08	38.72	39.91		39.91	0.000001	-0.02	4.68	8.00	0.01
01	6421	Max WS	Tr20_12h	0.33	38.72	39.78		39.78	0.000028	0.10	3.63	8.00	0.04
01	6371	Max WS	Tr20_2h	-0.66	38.60	39.84		39.84	0.000132	-0.22	3.33	8.44	0.09
01	6371	Max WS	Tr20_4h	0.16	38.60	39.98		39.98	0.000004	0.04	4.69	11.94	0.02
01	6371	Max WS	Tr20_7h	-0.40	38.60	39.91		39.91	0.000032	-0.11	3.95	9.98	0.04
01	6371	Max WS	Tr20_12h	-0.52	38.60	39.78		39.78	0.000114	-0.20	2.84	7.83	0.08
01	6321	Max WS	Tr20_2h	1.31	38.51	39.83		39.84	0.000165	0.28	4.81	8.21	0.10
01	6321	Max WS	Tr20_4h	0.26	38.51	39.98		39.98	0.000003	0.05	6.07	9.00	0.02
01	6321	Max WS	Tr20_7h	0.83	38.51	39.91		39.91	0.000048	0.16	5.46	8.84	0.06
01	6321	Max WS	Tr20_12h	1.49	38.51	39.76		39.77	0.000295	0.36	4.26	7.55	0.14
01	6271	Max WS	Tr20_2h	3.03	38.44	39.77		39.79	0.001040	0.69	4.49	8.44	0.26
01	6271	Max WS	Tr20_4h	3.82	38.44	39.92		39.94	0.000843	0.67	6.73	21.03	0.24
01	6271	Max WS	Tr20_7h	3.42	38.44	39.84		39.87	0.000965	0.69	5.32	14.31	0.25
01	6271	Max WS	Tr20_12h	2.63	38.44	39.70		39.73	0.000981	0.65	4.03	5.89	0.25
01	6258.5	Max WS	Tr20_2h	3.03	38.39	39.75	39.20	39.78	0.001274	0.73	4.17	6.30	0.29
01	6258.5	Max WS	Tr20_4h	3.82	38.39	39.90	39.28	39.93	0.001077	0.73	5.56	17.03	0.27
01	6258.5	Max WS	Tr20_7h	3.42	38.39	39.83	39.24	39.85	0.001213	0.73	4.67	7.10	0.28
01	6258.5	Max WS	Tr20_12h	2.63	38.39	39.69	39.15	39.71	0.001225	0.70	3.78	5.93	

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5999			Lat Struct									
01	5971	Max WS	Tr20_2h	4.11	37.58	39.25		39.28	0.001145	0.79	5.24	6.98	0.27
01	5971	Max WS	Tr20_4h	4.44	37.58	39.26		39.29	0.001291	0.85	5.31	7.00	0.29
01	5971	Max WS	Tr20_7h	4.31	37.58	39.25		39.29	0.001233	0.83	5.29	7.00	0.28
01	5971	Max WS	Tr20_12h	3.97	37.58	39.24		39.27	0.001084	0.77	5.20	6.95	0.26
01	5921	Max WS	Tr20_2h	3.84	37.53	39.16		39.21	0.002040	0.91	4.20	6.26	0.35
01	5921	Max WS	Tr20_4h	3.99	37.53	39.18		39.22	0.002078	0.93	4.28	6.51	0.35
01	5921	Max WS	Tr20_7h	3.91	37.53	39.17		39.22	0.002017	0.92	4.27	6.47	0.35
01	5921	Max WS	Tr20_12h	3.75	37.53	39.16		39.20	0.001974	0.90	4.18	6.20	0.34
01	5871	Max WS	Tr20_2h	3.80	37.59	39.10		39.13	0.001129	0.78	4.86	5.74	0.27
01	5871	Max WS	Tr20_4h	3.87	37.59	39.11		39.14	0.001120	0.78	4.94	5.80	0.27
01	5871	Max WS	Tr20_7h	3.83	37.59	39.11		39.14	0.001102	0.78	4.94	5.79	0.27
01	5871	Max WS	Tr20_12h	3.72	37.59	39.10		39.13	0.001082	0.77	4.86	5.74	0.27
01	5870			Lat Struct									
01	5821	Max WS	Tr20_2h	3.77	37.63	39.00		39.04	0.002251	0.91	4.15	6.79	0.37
01	5821	Max WS	Tr20_4h	3.85	37.63	39.02		39.06	0.002181	0.91	4.25	6.82	0.37
01	5821	Max WS	Tr20_7h	3.82	37.63	39.02		39.06	0.002137	0.90	4.26	6.82	0.36
01	5821	Max WS	Tr20_12h	3.72	37.63	39.01		39.05	0.002150	0.89	4.17	6.80	0.36
01	5771	Max WS	Tr20_2h	3.74	37.26	38.91		38.95	0.001694	0.88	4.28	6.48	0.32
01	5771	Max WS	Tr20_4h	3.81	37.26	38.92		38.96	0.001635	0.87	4.40	6.58	0.32
01	5771	Max WS	Tr20_7h	3.80	37.26	38.93		38.97	0.001609	0.87	4.42	6.58	0.31
01	5771	Max WS	Tr20_12h	3.71	37.26	38.92		38.95	0.001613	0.86	4.34	6.55	0.31
01	5721	Max WS	Tr20_2h	3.70	37.37	38.81		38.85	0.001922	0.96	3.86	4.67	0.34
01	5721	Max WS	Tr20_4h	3.78	37.37	38.83		38.87	0.001898	0.96	3.95	4.77	0.34
01	5721	Max WS	Tr20_7h	3.77	37.37	38.83		38.88	0.001877	0.95	3.97	4.79	0.33
01	5721	Max WS	Tr20_12h	3.71	37.37	38.82		38.87	0.001875	0.95	3.91	4.73	0.33
01	5671	Max WS	Tr20_2h	3.68	37.26	38.75		38.78	0.001000	0.76	4.83	5.08	0.25
01	5671	Max WS	Tr20_4h	3.75	37.26	38.77		38.80	0.000988	0.76	4.94	5.17	0.25
01	5671	Max WS	Tr20_7h	3.73	37.26	38.78		38.81	0.000967	0.75	4.96	5.19	0.25
01	5671	Max WS	Tr20_12h	3.71	37.26	38.77		38.79	0.000985	0.76	4.90	5.14	0.25
01	5621	Max WS	Tr20_2h	3.68	37.22	38.70		38.73	0.001053	0.77	4.80	5.57	0.26
01	5621	Max WS	Tr20_4h	3.72	37.22	38.72		38.75	0.001019	0.76	4.93	5.69	0.26
01	5621	Max WS	Tr20_7h	3.71	37.22	38.73		38.76	0.000993	0.75	4.96	5.72	0.26
01	5621	Max WS	Tr20_12h	3.71	37.22	38.71		38.74	0.001033	0.76	4.88	5.65	0.26
01	5601.	Max WS	Tr20_2h	3.68	37.16	38.68	37.95	38.71	0.000946	0.72	5.07	5.96	0.25
01	5601.	Max WS	Tr20_4h	3.71	37.16	38.71	37.96	38.73	0.000902	0.71	5.21	6.07	0.25
01	5601.	Max WS	Tr20_7h	3.70	37.16	38.71	37.95	38.74	0.000878	0.70	5.25	6.10	0.24
01	5601.	Max WS	Tr20_12h	3.71	37.16	38.70	37.96	38.72	0.000923	0.72	5.16	6.03	0.25
01	5591			Bridge									
01	5586	Max WS	Tr20_2h	3.68	37.16	38.67		38.69	0.000993	0.74	4.97	5.88	0.26
01	5586	Max WS	Tr20_4h	3.68	37.16	38.69		38.72	0.000930	0.72	5.12	6.00	0.25
01	5586	Max WS	Tr20_7h	3.68	37.16	38.70		38.72	0.000910	0.71	5.16	6.03	0.25
01	5586	Max WS	Tr20_12h	3.71	37.16	38.68		38.71	0.000965	0.73	5.06	5.95	0.25
01	5585			Lat Struct									
01	5584			Lat Struct									
01	5571	Max WS	Tr20_2h	3.68	37.07	38.66		38.68	0.000824	0.70	5.23	5.86	0.23
01	5571	Max WS	Tr20_4h	3.67	37.07	38.68		38.70	0.000763	0.68	5.37	6.11	0.22
01	5571	Max WS	Tr20_7h	3.67	37.07	38.69		38.71	0.000748	0.68	5.42	6.18	0.22
01	5571	Max WS	Tr20_12h	3.70	37.07	38.67		38.70	0.000800	0.70	5.32	6.01	0.23
01	5521	Max WS	Tr20_2h	3.23	36.99	38.63		38.65	0.000570	0.58	5.53	5.96	0.19
01	5521	Max WS	Tr20_4h	2.97	36.99	38.67		38.68	0.000433	0.52	5.73	6.00	0.17
01	5521	Max WS	Tr20_7h	2.90	36.99	38.68		38.69	0.000402	0.50	5.80	7.00	0.16
01	5521	Max WS	Tr20_12h	3.14	36.99	38.65		38.67	0.000507	0.56	5.65	5.98	0.18
01	5471	Max WS	Tr20_2h	3.63	37.06	38.57		38.60	0.001348	0.81	4.79	10.61	0.29
01	5471	Max WS	Tr20_4h	3.51	37.06	38.62		38.64	0.001008	0.73	5.30	10.67	0.26
01	5471	Max WS	Tr20_7h	3.45	37.06	38.63		38.65	0.000914	0.70	5.45	10.68	0.24
01	5471	Max WS	Tr20_12h	3.71	37.06	38.59		38.62	0.001278	0.80	5.00	10.64	0.29
01	5421	Max WS	Tr20_2h	3.63	36.97	38.50	37.82	38.54	0.001132	0.81	4.50	4.90	0.27
01	5421	Max WS	Tr20_4h	3.55	36.97	38.56	37.81	38.59	0.000908	0.74	4.80	5.02	0.24
01	5421	Max WS	Tr20_7h	3.50	36.97	38.58	37.81	38.61	0.000842	0.72	4.89	5.06	0.23
01	5421	Max WS	Tr20_12h	3.73	36.97	38.53	37.83	38.56	0.001125	0.81	4.61	4.94	0.27
01	5415			Bridge									
01	5401	Max WS	Tr20_2h	3.63	36.97	38.48		38.51	0.001230	0.83	4.37	4.84	0.28
01	5401	Max WS	Tr20_4h	3.55	36.97	38.54		38.57	0.000965	0.76	4.70	4.98	0.25
01	5401	Max WS	Tr20_7h	3.50	36.97	38.56		38.59	0.000890	0.73	4.79	5.02	0.24
01	5401	Max WS	Tr20_12h	3.73	36.97	38.50		38.53	0.001219	0.83	4.47	4.89	0.28
01	5400			Lat Struct									
01	5399			Lat Struct									
01	5371	Max WS	Tr20_2h	3.63	36.88	38.46		38.48	0.000643	0.65	5.57	5.28	0.20
01	5371	Max WS	Tr20_4h	3.55	36.88	38.53		38.55	0.000517	0.60	5.95	5.46	0.18
01	5371	Max WS	Tr20_7h	3.50	36.88	38.55		38.57	0.000481	0.58	6.06	5.50	0.18

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5371	Max WS	Tr20_12h	3.73	36.88	38.48		38.51	0.000644	0.66	5.69	5.34	0.20
01	5321	Max WS	Tr20_2h	3.63	36.86	38.42		38.44	0.000929	0.74	4.88	4.85	0.24
01	5321	Max WS	Tr20_4h	3.55	36.86	38.50		38.52	0.000728	0.67	5.28	5.10	0.21
01	5321	Max WS	Tr20_7h	3.50	36.86	38.52		38.54	0.000671	0.65	5.40	5.17	0.20
01	5321	Max WS	Tr20_12h	3.73	36.86	38.44		38.47	0.000931	0.75	4.99	4.92	0.24
01	5271	Max WS	Tr20_2h	3.63	36.76	38.38	37.55	38.40	0.000725	0.67	5.38	5.28	0.21
01	5271	Max WS	Tr20_4h	3.55	36.76	38.47	37.55	38.49	0.000552	0.61	5.85	5.49	0.19
01	5271	Max WS	Tr20_7h	3.50	36.76	38.49	37.54	38.51	0.000506	0.58	5.99	5.55	0.18
01	5271	Max WS	Tr20_12h	3.73	36.76	38.40	37.56	38.42	0.000725	0.68	5.49	5.34	0.21
01	5265			Bridge									
01	5256	Max WS	Tr20_2h	3.63	36.76	38.37		38.39	0.000748	0.68	5.31	5.26	0.22
01	5256	Max WS	Tr20_4h	3.55	36.76	38.46		38.48	0.000567	0.61	5.79	5.47	0.19
01	5256	Max WS	Tr20_7h	3.50	36.76	38.48		38.50	0.000520	0.59	5.93	5.53	0.18
01	5256	Max WS	Tr20_12h	3.73	36.76	38.39		38.41	0.000748	0.69	5.43	5.31	0.22
01	5255			Lat Struct									
01	5254			Lat Struct									
01	5221	Max WS	Tr20_2h	3.63	36.72	38.33		38.36	0.000979	0.75	4.85	5.27	0.25
01	5221	Max WS	Tr20_4h	3.55	36.72	38.43		38.45	0.000718	0.66	5.39	5.65	0.21
01	5221	Max WS	Tr20_7h	3.50	36.72	38.46		38.48	0.000653	0.63	5.55	5.75	0.21
01	5221	Max WS	Tr20_12h	3.73	36.72	38.35		38.38	0.000977	0.75	4.97	5.35	0.25
01	5171	Max WS	Tr20_2h	3.63	36.63	38.29		38.32	0.000776	0.68	5.29	5.63	0.23
01	5171	Max WS	Tr20_4h	3.86	36.63	38.39		38.42	0.000679	0.66	5.88	6.05	0.21
01	5171	Max WS	Tr20_7h	3.89	36.63	38.42		38.44	0.000644	0.64	6.05	6.17	0.21
01	5171	Max WS	Tr20_12h	3.73	36.63	38.32		38.34	0.000777	0.69	5.42	5.72	0.23
01	5121	Max WS	Tr20_2h	3.63	36.78	38.23		38.26	0.001383	0.82	4.42	5.45	0.29
01	5121	Max WS	Tr20_4h	4.15	36.78	38.33		38.36	0.001314	0.84	4.96	5.73	0.29
01	5121	Max WS	Tr20_7h	4.25	36.78	38.36		38.39	0.001263	0.83	5.13	5.81	0.28
01	5121	Max WS	Tr20_12h	3.73	36.78	38.25		38.29	0.001358	0.82	4.54	5.51	0.29
01	5071	Max WS	Tr20_2h	3.63	36.79	38.13		38.18	0.001969	0.97	3.72	4.68	0.35
01	5071	Max WS	Tr20_4h	4.16	36.79	38.23		38.28	0.001928	0.98	4.30	8.16	0.35
01	5071	Max WS	Tr20_7h	4.28	36.79	38.27		38.31	0.001832	0.97	4.61	10.61	0.34
01	5071	Max WS	Tr20_12h	3.73	36.79	38.16		38.20	0.001952	0.97	3.83	4.79	0.35
01	5021	Max WS	Tr20_2h	3.63	36.56	38.05		38.09	0.001558	0.87	4.15	5.25	0.31
01	5021	Max WS	Tr20_4h	4.29	36.56	38.15		38.19	0.001602	0.92	4.66	5.55	0.32
01	5021	Max WS	Tr20_7h	4.51	36.56	38.18		38.22	0.001605	0.93	4.83	5.64	0.32
01	5021	Max WS	Tr20_12h	3.77	36.56	38.08		38.11	0.001564	0.88	4.26	5.32	0.32
01	4981.	Max WS	Tr20_2h	3.63	36.52	37.98	37.44	38.03	0.001778	0.93	3.89	4.86	0.33
01	4981.	Max WS	Tr20_4h	4.30	36.52	38.07	37.50	38.12	0.001855	0.99	4.34	5.09	0.34
01	4981.	Max WS	Tr20_7h	4.52	36.52	38.10	37.53	38.15	0.001872	1.01	4.49	5.18	0.34
01	4981.	Max WS	Tr20_12h	3.77	36.52	38.00	37.45	38.05	0.001789	0.94	3.99	4.91	0.33
01	4975			Bridge									
01	4971	Max WS	Tr20_2h	3.63	36.52	37.96		38.00	0.001927	0.96	3.78	4.80	0.35
01	4971	Max WS	Tr20_4h	4.30	36.52	38.05		38.10	0.002010	1.02	4.21	5.03	0.36
01	4971	Max WS	Tr20_7h	4.52	36.52	38.08		38.13	0.002025	1.04	4.36	5.10	0.36
01	4971	Max WS	Tr20_12h	3.77	36.52	37.98		38.03	0.001938	0.97	3.88	4.85	0.35
01	4970			Lat Struct									
01	4969			Lat Struct									
01	4921	Max WS	Tr20_2h	3.62	36.45	37.83		37.89	0.002545	1.07	3.38	4.33	0.39
01	4921	Max WS	Tr20_4h	4.30	36.45	37.91		37.98	0.002748	1.15	3.73	4.54	0.40
01	4921	Max WS	Tr20_7h	4.52	36.45	37.94		38.01	0.002789	1.17	3.86	4.61	0.41
01	4921	Max WS	Tr20_12h	3.77	36.45	37.85		37.91	0.002570	1.09	3.47	4.38	0.39
01	4871	Max WS	Tr20_2h	3.62	36.48	37.74	37.24	37.78	0.001902	0.95	3.81	5.00	0.35
01	4871	Max WS	Tr20_4h	4.30	36.48	37.81	37.31	37.86	0.002093	1.03	4.16	5.16	0.37
01	4871	Max WS	Tr20_7h	4.52	36.48	37.83	37.33	37.89	0.002128	1.05	4.29	5.23	0.37
01	4871	Max WS	Tr20_12h	3.75	36.48	37.76	37.26	37.80	0.001901	0.96	3.90	5.04	0.35
01	4860			Bridge									
01	4831	Max WS	Tr20_2h	3.46	36.48	37.58		37.65	0.003186	1.13	3.06	4.61	0.44
01	4831	Max WS	Tr20_4h	3.38	36.48	37.61		37.67	0.002671	1.05	3.21	4.71	0.41
01	4831	Max WS	Tr20_7h	3.78	36.48	37.61		37.68	0.003322	1.18	3.21	4.72	0.45
01	4831	Max WS	Tr20_12h	3.75	36.48	37.59		37.67	0.003571	1.21	3.11	4.65	0.47
01	4830			Lat Struct									
01	4829			Lat Struct									
01	4821	Max WS	Tr20_2h	3.51	35.95	37.61		37.62	0.000429	0.53	6.67	6.93	0.17
01	4821	Max WS	Tr20_4h	3.38	35.95	37.64		37.65	0.000370	0.49	6.87	7.22	0.16
01	4821	Max WS	Tr20_7h	3.79	35.95	37.64		37.66	0.000453	0.55	6.92	7.41	0.18
01	4821	Max WS	Tr20_12h	3.75	35.95	37.62		37.64	0.000473	0.55	6.77	7.01	0.18
01	4771	Max WS	Tr20_2h	2.77	36.05	37.60		37.61	0.000357	0.48	5.80	6.00	0.16
01	4771	Max WS	Tr20_4h	2.14	36.05	37.64		37.64	0.000188	0.35	6.04	6.11	0.11
01	4771	Max WS	Tr20_7h	2.42	36.05	37.64		37.65	0.000234	0.40	6.08	6.12	0.13
01	4771	Max WS	Tr20_12h	2.82	36.05	37.61		37.63	0.000350	0.48	5.90	6.04	0.15

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4721	Max WS	Tr20_2h	4.32	36.03	37.52		37.55	0.001176	0.83	5.45	7.68	0.29
01	4721	Max WS	Tr20_4h	4.73	36.03	37.54		37.58	0.001280	0.88	5.63	7.72	0.30
01	4721	Max WS	Tr20_7h	4.83	36.03	37.55		37.59	0.001305	0.89	5.68	7.73	0.30
01	4721	Max WS	Tr20_12h	4.53	36.03	37.53		37.57	0.001232	0.85	5.54	7.70	0.29
01	4671	Max WS	Tr20_2h	4.23	35.79	37.46		37.50	0.001083	0.83	5.53	9.16	0.27
01	4671	Max WS	Tr20_4h	4.62	35.79	37.48		37.52	0.001192	0.89	5.71	9.32	0.28
01	4671	Max WS	Tr20_7h	4.71	35.79	37.49		37.53	0.001220	0.90	5.75	9.36	0.29
01	4671	Max WS	Tr20_12h	4.43	35.79	37.47		37.51	0.001141	0.86	5.62	9.25	0.28
01	4621	Max WS	Tr20_2h	4.23	35.90	37.40		37.44	0.001375	0.86	4.95	6.70	0.30
01	4621	Max WS	Tr20_4h	4.61	35.90	37.41		37.45	0.001576	0.93	5.02	6.71	0.32
01	4621	Max WS	Tr20_7h	4.71	35.90	37.41		37.46	0.001629	0.94	5.03	6.71	0.32
01	4621	Max WS	Tr20_12h	4.43	35.90	37.40		37.44	0.001479	0.90	4.98	6.70	0.31
01	4571	Max WS	Tr20_2h	3.70	36.01	37.36		37.39	0.000857	0.72	5.39	8.79	0.24
01	4571	Max WS	Tr20_4h	3.95	36.01	37.37		37.40	0.000947	0.76	5.46	8.80	0.26
01	4571	Max WS	Tr20_7h	4.01	36.01	37.37		37.40	0.000970	0.77	5.48	8.80	0.26
01	4571	Max WS	Tr20_12h	3.83	36.01	37.37		37.39	0.000903	0.74	5.42	8.79	0.25
01	4521	Max WS	Tr20_2h	2.88	35.87	37.35		37.36	0.000550	0.56	5.13	5.66	0.19
01	4521	Max WS	Tr20_4h	2.98	35.87	37.36		37.37	0.000570	0.57	5.18	5.68	0.19
01	4521	Max WS	Tr20_7h	3.00	35.87	37.36		37.38	0.000576	0.58	5.20	5.68	0.19
01	4521	Max WS	Tr20_12h	2.93	35.87	37.35		37.37	0.000559	0.57	5.16	5.67	0.19
01	4471	Max WS	Tr20_2h	2.83	35.86	37.32		37.33	0.000602	0.55	5.16	6.66	0.20
01	4471	Max WS	Tr20_4h	2.90	35.86	37.33		37.34	0.000615	0.56	5.22	6.69	0.20
01	4471	Max WS	Tr20_7h	2.92	35.86	37.33		37.35	0.000618	0.56	5.24	6.70	0.20
01	4471	Max WS	Tr20_12h	2.86	35.86	37.32		37.34	0.000607	0.55	5.19	6.68	0.20
01	4446	Max WS	Tr20_2h	2.83	35.76	37.31	36.45	37.32	0.000484	0.52	5.42	6.32	0.18
01	4446	Max WS	Tr20_4h	2.90	35.76	37.32	36.46	37.33	0.000498	0.53	5.47	6.35	0.18
01	4446	Max WS	Tr20_7h	2.92	35.76	37.32	36.46	37.33	0.000501	0.53	5.49	6.36	0.18
01	4446	Max WS	Tr20_12h	2.86	35.76	37.31	36.45	37.33	0.000490	0.53	5.45	6.34	0.18
01	4435			Bridge									
01	4421	Max WS	Tr20_2h	2.83	35.76	37.28		37.29	0.000531	0.54	5.24	6.22	0.19
01	4421	Max WS	Tr20_4h	2.90	35.76	37.29		37.30	0.000548	0.55	5.28	6.25	0.19
01	4421	Max WS	Tr20_7h	2.92	35.76	37.29		37.30	0.000552	0.55	5.30	6.25	0.19
01	4421	Max WS	Tr20_12h	2.86	35.76	37.28		37.30	0.000538	0.54	5.26	6.24	0.19
01	4420			Lat Struct									
01	4419			Lat Struct									
01	4371	Max WS	Tr20_2h	2.83	35.89	37.26		37.27	0.000435	0.51	5.54	6.18	0.17
01	4371	Max WS	Tr20_4h	2.90	35.89	37.26		37.28	0.000450	0.52	5.58	6.21	0.18
01	4371	Max WS	Tr20_7h	2.92	35.89	37.26		37.28	0.000453	0.52	5.59	6.21	0.18
01	4371	Max WS	Tr20_12h	2.86	35.89	37.26		37.27	0.000441	0.52	5.56	6.20	0.17
01	4321	Max WS	Tr20_2h	2.83	35.92	37.23		37.25	0.000460	0.51	5.59	6.89	0.18
01	4321	Max WS	Tr20_4h	2.90	35.92	37.24		37.25	0.000476	0.52	5.63	6.92	0.18
01	4321	Max WS	Tr20_7h	2.92	35.92	37.24		37.26	0.000479	0.52	5.64	6.93	0.18
01	4321	Max WS	Tr20_12h	2.86	35.92	37.24		37.25	0.000466	0.51	5.62	6.91	0.18
01	4271	Max WS	Tr20_2h	2.83	35.85	37.21		37.22	0.000616	0.53	5.35	19.44	0.20
01	4271	Max WS	Tr20_4h	2.90	35.85	37.21		37.23	0.000644	0.54	5.38	19.57	0.20
01	4271	Max WS	Tr20_7h	2.92	35.85	37.21		37.23	0.000650	0.54	5.39	19.60	0.21
01	4271	Max WS	Tr20_12h	2.86	35.85	37.21		37.22	0.000628	0.53	5.37	19.53	0.20
01	4221	Max WS	Tr20_2h	2.83	35.73	37.18		37.19	0.000414	0.51	5.55	5.83	0.17
01	4221	Max WS	Tr20_4h	2.90	35.73	37.18		37.20	0.000433	0.52	5.57	5.84	0.17
01	4221	Max WS	Tr20_7h	2.92	35.73	37.19		37.20	0.000437	0.52	5.57	5.84	0.17
01	4221	Max WS	Tr20_12h	2.86	35.73	37.18		37.20	0.000421	0.51	5.56	5.84	0.17
01	4171	Max WS	Tr20_2h	2.71	35.96	37.15		37.17	0.000654	0.56	5.09	9.69	0.21
01	4171	Max WS	Tr20_4h	2.78	35.96	37.16		37.17	0.000678	0.57	5.12	9.70	0.21
01	4171	Max WS	Tr20_7h	2.80	35.96	37.16		37.17	0.000684	0.57	5.13	9.70	0.21
01	4171	Max WS	Tr20_12h	2.74	35.96	37.16		37.17	0.000657	0.56	5.12	9.70	0.21
01	4121	Max WS	Tr20_2h	2.44	35.92	37.12		37.14	0.000863	0.58	4.30	8.55	0.24
01	4121	Max WS	Tr20_4h	2.48	35.92	37.12		37.14	0.000882	0.58	4.32	8.58	0.24
01	4121	Max WS	Tr20_7h	2.47	35.92	37.12		37.14	0.000869	0.58	4.33	8.59	0.24
01	4121	Max WS	Tr20_12h	2.39	35.92	37.12		37.14	0.000802	0.56	4.35	8.62	0.23
01	4071	Max WS	Tr20_2h	2.36	35.81	37.08		37.09	0.000913	0.57	4.20	9.51	0.24
01	4071	Max WS	Tr20_4h	2.39	35.81	37.08		37.09	0.000932	0.58	4.21	9.54	0.24
01	4071	Max WS	Tr20_7h	2.29	35.81	37.08		37.10	0.000834	0.55	4.25	9.61	0.23
01	4071	Max WS	Tr20_12h	2.22	35.81	37.09		37.10	0.000747	0.53	4.32	9.77	0.22
01	4021	Max WS	Tr20_2h	2.28	35.76	37.04		37.05	0.000755	0.51	4.49	8.76	0.22
01	4021	Max WS	Tr20_4h	2.19	35.76	37.04		37.05	0.000694	0.49	4.51	8.79	0.21
01	4021	Max WS	Tr20_7h	2.12	35.76	37.05		37.06	0.000620	0.47	4.59	8.95	0.20
01	4021	Max WS	Tr20_12h	1.97	35.76	37.06		37.07	0.000494	0.42	4.73	9.00	0.18
01	3971	Max WS	Tr20_2h	1.98	35.89	37.01		37.02	0.000526	0.45	4.57	10.00	0.19
01	3971	Max WS	Tr20_4h	1.76	35.89	37.02		37.03	0.000397	0.40	4.65	10.00	0.16
01	3971	Max WS	Tr20_7h	1.43	35.89	37.04		37.05	0.000234	0.31	4.84	10.00	0.12
01	3971	Max WS	Tr20_12h	1.00	35.89	37.06		37.07	0.000101	0.21	5.08	10.00	0.08
01	3921	Max WS	Tr20_2h	1.70	35.75	36.99		37.00	0.000586	0.50	3.54	7.76	0.19
01	3921	Max WS	Tr20_4h	1.23	35.75	37.01		37.02	0.000271	0.35	3.74	8.03	0.13

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3921	Max WS	Tr20_7h	0.55	35.75	37.04		37.04	0.000046	0.15	4.00	9.00	0.05
01	3921	Max WS	Tr20_12h	0.42	35.75	37.07		37.07	0.000024	0.11	4.23	9.00	0.04
01	3881	Max WS	Tr20_2h	1.70	35.70	36.98	36.20	36.98	0.000193	0.32	5.34	6.78	0.11
01	3881	Max WS	Tr20_4h	1.22	35.70	37.01	36.14	37.01	0.000089	0.22	5.54	7.08	0.08
01	3881	Max WS	Tr20_7h	0.48	35.70	37.04	36.02	37.04	0.000012	0.08	5.79	7.43	0.03
01	3881	Max WS	Tr20_12h	0.43	35.70	37.07	36.01	37.07	0.000009	0.07	5.97	7.69	0.02
01	3876			Bridge									
01	3871	Max WS	Tr20_2h	1.70	35.70	36.97		36.98	0.000196	0.32	5.30	6.77	0.12
01	3871	Max WS	Tr20_4h	1.22	35.70	37.00		37.01	0.000090	0.22	5.52	7.05	0.08
01	3871	Max WS	Tr20_7h	0.48	35.70	37.04		37.04	0.000012	0.08	5.79	7.43	0.03
01	3871	Max WS	Tr20_12h	0.43	35.70	37.06		37.06	0.000009	0.07	5.96	7.66	0.02
01	3870			Lat Struct									
01	3869			Lat Struct									
01	3821	Max WS	Tr20_2h	1.70	35.84	36.95		36.96	0.000470	0.44	3.83	5.71	0.17
01	3821	Max WS	Tr20_4h	1.21	35.84	37.00		37.00	0.000206	0.30	4.09	6.03	0.11
01	3821	Max WS	Tr20_7h	0.48	35.84	37.04		37.04	0.000028	0.11	4.37	6.37	0.04
01	3821	Max WS	Tr20_12h	0.41	35.84	37.06		37.06	0.000019	0.09	4.51	6.53	0.04
01	3771	Max WS	Tr20_2h	1.69	35.62	36.93		36.94	0.000480	0.44	3.87	5.94	0.17
01	3771	Max WS	Tr20_4h	1.21	35.62	36.99		36.99	0.000195	0.29	4.22	6.21	0.11
01	3771	Max WS	Tr20_7h	0.48	35.62	37.04		37.04	0.000025	0.11	4.55	6.45	0.04
01	3771	Max WS	Tr20_12h	0.41	35.62	37.06		37.06	0.000017	0.09	4.70	6.56	0.03
01	3721	Max WS	Tr20_2h	1.67	35.71	36.90		36.91	0.000602	0.48	3.52	5.68	0.19
01	3721	Max WS	Tr20_4h	1.20	35.71	36.97		36.98	0.000223	0.30	3.97	6.27	0.12
01	3721	Max WS	Tr20_7h	0.48	35.71	37.04		37.04	0.000027	0.11	4.44	9.73	0.04
01	3721	Max WS	Tr20_12h	0.40	35.71	37.06		37.06	0.000017	0.09	4.66	10.00	0.03
01	3671	Max WS	Tr20_2h	1.66	35.34	36.88		36.89	0.000418	0.40	4.21	6.92	0.16
01	3671	Max WS	Tr20_4h	1.30	35.34	36.97		36.97	0.000171	0.27	4.95	10.00	0.10
01	3671	Max WS	Tr20_7h	0.77	35.34	37.03		37.04	0.000042	0.14	5.64	10.00	0.05
01	3671	Max WS	Tr20_12h	0.62	35.34	37.06		37.06	0.000024	0.11	5.88	10.00	0.04
01	3621	Max WS	Tr20_2h	1.66	35.66	36.86		36.87	0.000369	0.42	3.97	5.24	0.15
01	3621	Max WS	Tr20_4h	1.50	35.66	36.95		36.96	0.000233	0.33	4.50	5.99	0.12
01	3621	Max WS	Tr20_7h	1.70	35.66	37.02		37.02	0.000277	0.34	4.99	9.17	0.13
01	3621	Max WS	Tr20_12h	1.85	35.66	37.04		37.05	0.000300	0.36	5.18	9.31	0.14
01	3571	Max WS	Tr20_2h	1.64	35.67	36.85		36.85	0.000209	0.34	4.88	5.95	0.12
01	3571	Max WS	Tr20_4h	1.48	35.67	36.94		36.95	0.000126	0.27	5.49	6.35	0.09
01	3571	Max WS	Tr20_7h	1.70	35.67	37.01		37.01	0.000138	0.29	5.91	6.61	0.10
01	3571	Max WS	Tr20_12h	1.88	35.67	37.03		37.03	0.000158	0.31	6.04	6.69	0.10
01	3521	Max WS	Tr20_2h	1.63	35.81	36.82		36.83	0.000597	0.45	3.62	6.49	0.19
01	3521	Max WS	Tr20_4h	1.45	35.81	36.93		36.94	0.000306	0.33	4.40	7.67	0.14
01	3521	Max WS	Tr20_7h	1.68	35.81	37.00		37.00	0.000297	0.34	4.94	8.78	0.14
01	3521	Max WS	Tr20_12h	1.87	35.81	37.01		37.02	0.000335	0.37	5.09	8.85	0.15
01	3520			Lat Struct									
01	3519			Lat Struct									
01	3471	Max WS	Tr20_2h	1.62	35.63	36.80		36.81	0.000293	0.37	4.34	5.89	0.14
01	3471	Max WS	Tr20_4h	1.41	35.63	36.92		36.93	0.000149	0.28	5.09	6.52	0.10
01	3471	Max WS	Tr20_7h	1.59	35.63	36.99		36.99	0.000154	0.29	5.52	6.80	0.10
01	3471	Max WS	Tr20_12h	1.65	35.63	37.01		37.01	0.000154	0.29	5.65	6.85	0.10
01	3421	Max WS	Tr20_2h	1.60	35.64	36.79		36.79	0.000320	0.38	4.21	5.87	0.14
01	3421	Max WS	Tr20_4h	0.70	35.64	36.92		36.92	0.000046	0.14	5.12	8.56	0.05
01	3421	Max WS	Tr20_7h	1.18	35.64	36.99		36.99	0.000110	0.20	5.83	10.59	0.08
01	3421	Max WS	Tr20_12h	0.96	35.64	37.01		37.01	0.000067	0.16	6.06	10.79	0.07
01	3371	Max WS	Tr20_2h	1.58	35.55	36.77		36.77	0.000428	0.40	3.94	6.52	0.16
01	3371	Max WS	Tr20_4h	0.61	35.55	36.91		36.91	0.000040	0.12	5.24	11.00	0.05
01	3371	Max WS	Tr20_7h	0.92	35.55	36.98		36.98	0.000061	0.16	5.99	11.00	0.06
01	3371	Max WS	Tr20_12h	0.85	35.55	37.00		37.01	0.000046	0.14	6.24	11.00	0.06
01	3321	Max WS	Tr20_2h	1.51	35.55	36.75		36.75	0.000364	0.40	3.77	5.43	0.15
01	3321	Max WS	Tr20_4h	0.57	35.55	36.91		36.91	0.000032	0.12	4.81	7.09	0.05
01	3321	Max WS	Tr20_7h	0.67	35.55	36.98		36.98	0.000036	0.13	5.31	7.78	0.05
01	3321	Max WS	Tr20_12h	0.63	35.55	37.00		37.00	0.000029	0.11	5.50	8.90	0.04
01	3271	Max WS	Tr20_2h	0.70	35.54	36.73		36.73	0.000092	0.19	3.74	6.07	0.08
01	3271	Max WS	Tr20_4h	0.55	35.54	36.91		36.91	0.000031	0.11	4.96	7.77	0.04
01	3271	Max WS	Tr20_7h	0.62	35.54	36.98		36.98	0.000034	0.11	5.54	10.33	0.05
01	3271	Max WS	Tr20_12h	0.49	35.54	37.00		37.00	0.000018	0.08	5.79	10.46	0.03
01	3221	Max WS	Tr20_2h	0.66	35.52	36.73		36.73	0.000034	0.14	4.82	5.67	0.05
01	3221	Max WS	Tr20_4h	0.55	35.52	36.91		36.91	0.000014	0.09	5.89	6.31	0.03
01	3221	Max WS	Tr20_7h	0.60	35.52	36.98		36.98	0.000014	0.10	6.33	6.57	0.03
01	3221	Max WS	Tr20_12h	0.47	35.52	37.00		37.00	0.000008	0.07	6.49	6.66	0.02
01	3171	Max WS	Tr20_2h	0.63	35.51	36.73		36.73	0.000051	0.15	4.07	5.50	0.06
01	3171	Max WS	Tr20_4h	0.54	35.51	36.91		36.91	0.000023	0.10	5.17	7.19	0.04
01	3171	Max WS	Tr20_7h	0.59	35.51	36.98		36.98	0.000020	0.10	5.75	9.50	0.04
01	3171	Max WS	Tr20_12h	0.51	35.51	37.00		37.00	0.000014	0.09	6.00	10.52	0.03
01	3121	Max WS	Tr20_2h	0.57	35.78	36.72		36.73	0.000094	0.18	3.25	7.07	0.08

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3121	Max WS	Tr20_4h	0.53	35.78	36.91		36.91	0.000032	0.12	4.83	10.47	0.05
01	3121	Max WS	Tr20_7h	0.56	35.78	36.98		36.98	0.000026	0.12	5.62	13.07	0.04
01	3121	Max WS	Tr20_12h	0.52	35.78	37.00		37.00	0.000020	0.10	5.95	13.41	0.04
01	3071	Max WS	Tr20_2h	0.55	35.18	36.72	35.46	36.72	0.000007	0.06	8.64	10.32	0.02
01	3071	Max WS	Tr20_4h	0.53	35.18	36.91	35.45	36.91	0.000004	0.05	10.63	11.35	0.02
01	3071	Max WS	Tr20_7h	0.56	35.18	36.98	35.46	36.98	0.000003	0.05	11.43	11.89	0.02
01	3071	Max WS	Tr20_12h	0.52	35.18	37.00	35.45	37.00	0.000003	0.04	11.73	12.08	0.01
01	3061			Bridge									
01	3051	Max WS	Tr20_2h	0.55	35.18	36.72		36.72	0.000007	0.06	8.64	10.32	0.02
01	3051	Max WS	Tr20_4h	0.53	35.18	36.91		36.91	0.000004	0.05	10.63	11.35	0.02
01	3051	Max WS	Tr20_7h	0.55	35.18	36.98		36.98	0.000003	0.05	11.43	11.89	0.02
01	3051	Max WS	Tr20_12h	0.52	35.18	37.00		37.00	0.000003	0.04	11.72	12.08	0.01
01	3050			Lat Struct									
01	3049			Lat Struct									
01	3021	Max WS	Tr20_2h	0.54	35.05	36.72		36.72	0.000019	0.10	5.41	6.33	0.03
01	3021	Max WS	Tr20_4h	0.53	35.05	36.91		36.91	0.000010	0.08	6.63	6.82	0.03
01	3021	Max WS	Tr20_7h	0.55	35.05	36.98		36.98	0.000009	0.08	7.10	7.00	0.02
01	3021	Max WS	Tr20_12h	0.52	35.05	37.00		37.00	0.000007	0.07	7.28	7.07	0.02
01	2971	Max WS	Tr20_2h	0.53	35.26	36.72		36.72	0.000023	0.11	5.06	6.64	0.04
01	2971	Max WS	Tr20_4h	0.52	35.26	36.91		36.91	0.000012	0.08	6.37	7.52	0.03
01	2971	Max WS	Tr20_7h	0.54	35.26	36.97		36.98	0.000011	0.08	6.90	7.95	0.03
01	2971	Max WS	Tr20_12h	0.52	35.26	37.00		37.00	0.000009	0.07	7.10	8.10	0.02
01	2921	Max WS	Tr20_2h	0.52	35.55	36.72		36.72	0.000030	0.11	4.61	6.89	0.04
01	2921	Max WS	Tr20_4h	0.51	35.55	36.91		36.91	0.000014	0.09	5.96	7.58	0.03
01	2921	Max WS	Tr20_7h	0.54	35.55	36.97		36.97	0.000012	0.08	6.49	7.96	0.03
01	2921	Max WS	Tr20_12h	0.51	35.55	37.00		37.00	0.000010	0.08	6.69	8.14	0.03
01	2871	Max WS	Tr20_2h	0.52	34.76	36.72		36.72	0.000009	0.08	6.88	7.47	0.03
01	2871	Max WS	Tr20_4h	0.51	34.76	36.91		36.91	0.000005	0.06	8.34	8.23	0.02
01	2871	Max WS	Tr20_7h	0.54	34.76	36.97		36.97	0.000005	0.06	8.92	8.50	0.02
01	2871	Max WS	Tr20_12h	0.51	34.76	37.00		37.00	0.000004	0.06	9.13	8.61	0.02
01	2821	Max WS	Tr20_2h	0.51	35.15	36.72		36.72	0.000012	0.09	5.98	6.43	0.03
01	2821	Max WS	Tr20_4h	0.51	35.15	36.90		36.91	0.000007	0.07	7.24	7.14	0.02
01	2821	Max WS	Tr20_7h	0.53	35.15	36.97		36.97	0.000007	0.07	7.76	7.72	0.02
01	2821	Max WS	Tr20_12h	0.51	35.15	37.00		37.00	0.000006	0.06	7.95	7.92	0.02
01	2771	Max WS	Tr20_2h	0.51	35.23	36.72	35.52	36.72	0.000018	0.10	5.30	6.84	0.03
01	2771	Max WS	Tr20_4h	0.50	35.23	36.90	35.52	36.90	0.000011	0.07	6.73	8.88	0.03
01	2771	Max WS	Tr20_7h	0.53	35.23	36.97	35.52	36.97	0.000010	0.07	7.36	9.36	0.03
01	2771	Max WS	Tr20_12h	0.51	35.23	37.00	35.52	37.00	0.000009	0.07	7.60	9.83	0.02
01	2755			Bridge									
01	2751	Max WS	Tr20_2h	0.51	35.23	36.72		36.72	0.000018	0.10	5.30	6.84	0.03
01	2751	Max WS	Tr20_4h	0.50	35.23	36.90		36.90	0.000011	0.07	6.73	8.88	0.03
01	2751	Max WS	Tr20_7h	0.52	35.23	36.97		36.97	0.000010	0.07	7.36	9.35	0.03
01	2751	Max WS	Tr20_12h	0.51	35.23	37.00		37.00	0.000009	0.07	7.59	9.82	0.02
01	2750			Lat Struct									
01	2749			Lat Struct									
01	2721	Max WS	Tr20_2h	0.51	35.16	36.72		36.72	0.000007	0.07	7.38	7.56	0.02
01	2721	Max WS	Tr20_4h	0.50	35.16	36.90		36.90	0.000004	0.06	8.84	8.05	0.02
01	2721	Max WS	Tr20_7h	0.52	35.16	36.97		36.97	0.000004	0.06	9.40	8.23	0.02
01	2721	Max WS	Tr20_12h	0.51	35.16	37.00		37.00	0.000003	0.05	9.60	8.30	0.02
01	2671	Max WS	Tr20_2h	0.51	35.16	36.72		36.72	0.000007	0.07	7.14	6.58	0.02
01	2671	Max WS	Tr20_4h	0.50	35.16	36.90		36.90	0.000004	0.06	8.42	7.06	0.02
01	2671	Max WS	Tr20_7h	0.52	35.16	36.97		36.97	0.000004	0.06	8.91	7.25	0.02
01	2671	Max WS	Tr20_12h	0.51	35.16	37.00		37.00	0.000004	0.06	9.09	7.32	0.02
01	2661	Max WS	Tr20_2h	0.51	35.16	36.72	35.41	36.72	0.000007	0.07	7.14	6.58	0.02
01	2661	Max WS	Tr20_4h	0.50	35.16	36.90	35.41	36.90	0.000004	0.06	8.42	7.06	0.02
01	2661	Max WS	Tr20_7h	0.52	35.16	36.97	35.42	36.97	0.000004	0.06	8.91	7.25	0.02
01	2661	Max WS	Tr20_12h	0.51	35.16	37.00	35.41	37.00	0.000004	0.06	9.09	7.32	0.02
01	2640			Bridge									
01	2621	Max WS	Tr20_2h	0.51	34.88	36.72		36.72	0.000002	0.05	10.32	7.90	0.01
01	2621	Max WS	Tr20_4h	0.50	34.88	36.90		36.90	0.000002	0.04	11.83	8.26	0.01
01	2621	Max WS	Tr20_7h	0.52	34.88	36.97		36.97	0.000002	0.04	12.41	8.39	0.01
01	2621	Max WS	Tr20_12h	0.51	34.88	37.00		37.00	0.000001	0.04	12.61	8.44	0.01
01	2620			Lat Struct									
01	2619			Lat Struct									
01	2571	Max WS	Tr20_2h	0.51	35.10	36.72		36.72	0.000009	0.07	6.85	7.45	0.02
01	2571	Max WS	Tr20_4h	0.50	35.10	36.90		36.90	0.000005	0.06	8.30	8.04	0.02
01	2571	Max WS	Tr20_7h	0.52	35.10	36.97		36.97	0.000004	0.06	8.87	8.25	0.02
01	2571	Max WS	Tr20_12h	0.51	35.10	37.00		37.00	0.000004	0.06	9.07	8.32	0.02
01	2521	Max WS	Tr20_2h	0.51	35.09	36.72		36.72	0.000005	0.06	8.25	7.47	0.02
01	2521	Max WS	Tr20_4h	0.50	35.09	36.90		36.90	0.000003	0.05	9.69	7.97	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2521	Max WS	Tr20_7h	0.52	35.09	36.97		36.97	0.000003	0.05	10.25	8.17	0.01
01	2521	Max WS	Tr20_12h	0.51	35.09	37.00		37.00	0.000003	0.05	10.45	8.24	0.01
01	2471	Max WS	Tr20_2h	0.50	35.03	36.72		36.72	0.000006	0.06	7.81	7.57	0.02
01	2471	Max WS	Tr20_4h	0.50	35.03	36.90		36.90	0.000004	0.05	9.27	8.07	0.02
01	2471	Max WS	Tr20_7h	0.51	35.03	36.97		36.97	0.000003	0.05	9.83	8.28	0.02
01	2471	Max WS	Tr20_12h	0.51	35.03	37.00		37.00	0.000003	0.05	10.04	8.35	0.01
01	2421	Max WS	Tr20_2h	0.50	34.99	36.72		36.72	0.000006	0.07	7.65	7.12	0.02
01	2421	Max WS	Tr20_4h	0.50	34.99	36.90		36.90	0.000004	0.06	9.03	7.58	0.02
01	2421	Max WS	Tr20_7h	0.52	34.99	36.97		36.97	0.000003	0.05	9.56	7.75	0.02
01	2421	Max WS	Tr20_12h	0.51	34.99	37.00		37.00	0.000003	0.05	9.75	7.81	0.01
01	2371	Max WS	Tr20_2h	0.50	34.96	36.72		36.72	0.000004	0.06	9.06	7.46	0.02
01	2371	Max WS	Tr20_4h	0.50	34.96	36.90		36.90	0.000002	0.05	10.50	7.88	0.01
01	2371	Max WS	Tr20_7h	0.52	34.96	36.97		36.97	0.000002	0.05	11.05	8.05	0.01
01	2371	Max WS	Tr20_12h	0.51	34.96	37.00		37.00	0.000002	0.05	11.25	8.11	0.01
01	2321	Max WS	Tr20_2h	0.50	34.96	36.71	35.16	36.72	0.000005	0.06	8.03	6.99	0.02
01	2321	Max WS	Tr20_4h	0.50	34.96	36.90	35.16	36.90	0.000003	0.05	9.41	7.73	0.02
01	2321	Max WS	Tr20_7h	0.51	34.96	36.97	35.17	36.97	0.000003	0.05	9.95	7.92	0.01
01	2321	Max WS	Tr20_12h	0.51	34.96	37.00	35.17	37.00	0.000003	0.05	10.15	7.99	0.01
01	2316			Bridge									
01	2311	Max WS	Tr20_2h	0.50	34.96	36.71		36.72	0.000005	0.06	8.03	6.99	0.02
01	2311	Max WS	Tr20_4h	0.50	34.96	36.90		36.90	0.000003	0.05	9.41	7.73	0.02
01	2311	Max WS	Tr20_7h	0.51	34.96	36.97		36.97	0.000003	0.05	9.95	7.92	0.01
01	2311	Max WS	Tr20_12h	0.51	34.96	37.00		37.00	0.000003	0.05	10.15	7.99	0.01
01	2310			Lat Struct									
01	2309			Lat Struct									
01	2271	Max WS	Tr20_2h	0.50	34.91	36.71		36.71	0.000006	0.07	7.65	7.20	0.02
01	2271	Max WS	Tr20_4h	0.50	34.91	36.90		36.90	0.000004	0.05	9.05	7.81	0.02
01	2271	Max WS	Tr20_7h	0.51	34.91	36.97		36.97	0.000003	0.05	9.60	8.08	0.02
01	2271	Max WS	Tr20_12h	0.51	34.91	37.00		37.00	0.000003	0.05	9.80	8.17	0.02
01	2221	Max WS	Tr20_2h	0.50	35.02	36.71		36.71	0.000005	0.06	8.41	7.63	0.02
01	2221	Max WS	Tr20_4h	0.50	35.02	36.90		36.90	0.000003	0.05	9.88	8.12	0.01
01	2221	Max WS	Tr20_7h	0.51	35.02	36.97		36.97	0.000003	0.05	10.45	8.31	0.01
01	2221	Max WS	Tr20_12h	0.51	35.02	37.00		37.00	0.000002	0.05	10.66	8.38	0.01
01	2201	Max WS	Tr20_2h	0.50	35.07	36.71	35.28	36.71	0.000005	0.06	8.03	7.38	0.02
01	2201	Max WS	Tr20_4h	0.50	35.07	36.90	35.28	36.90	0.000003	0.05	9.46	7.87	0.02
01	2201	Max WS	Tr20_7h	0.51	35.07	36.97	35.28	36.97	0.000003	0.05	10.01	8.07	0.01
01	2201	Max WS	Tr20_12h	0.51	35.07	37.00	35.28	37.00	0.000003	0.05	10.21	8.14	0.01
01	2196			Bridge									
01	2191	Max WS	Tr20_2h	0.50	35.07	36.71		36.71	0.000005	0.06	8.03	7.38	0.02
01	2191	Max WS	Tr20_4h	0.50	35.07	36.90		36.90	0.000003	0.05	9.46	7.87	0.02
01	2191	Max WS	Tr20_7h	0.51	35.07	36.97		36.97	0.000003	0.05	10.01	8.07	0.01
01	2191	Max WS	Tr20_12h	0.51	35.07	37.00		37.00	0.000003	0.05	10.21	8.14	0.01
01	2190			Lat Struct									
01	2189			Lat Struct									
01	2171	Max WS	Tr20_2h	0.50	35.15	36.71		36.71	0.000006	0.07	7.43	7.02	0.02
01	2171	Max WS	Tr20_4h	0.50	35.15	36.90		36.90	0.000004	0.06	8.80	7.56	0.02
01	2171	Max WS	Tr20_7h	0.51	35.15	36.97		36.97	0.000003	0.05	9.33	7.77	0.02
01	2171	Max WS	Tr20_12h	0.51	35.15	37.00		37.00	0.000003	0.05	9.52	7.84	0.02
01	2169			Lat Struct									
01	2131	Max WS	Tr20_2h	0.50	35.00	36.71	35.51	36.71	0.000030	0.11	4.38	5.99	0.04
01	2131	Max WS	Tr20_4h	0.49	35.00	36.90	35.51	36.90	0.000015	0.09	5.58	6.73	0.03
01	2131	Max WS	Tr20_7h	0.51	35.00	36.97	35.52	36.97	0.000013	0.08	6.06	7.00	0.03
01	2131	Max WS	Tr20_12h	0.51	35.00	37.00	35.52	37.00	0.000012	0.08	6.23	7.10	0.03
01	2126			Bridge									
01	2121	Max WS	Tr20_2h	0.50	35.00	36.71		36.71	0.000031	0.11	4.38	5.98	0.04
01	2121	Max WS	Tr20_4h	0.49	35.00	36.90		36.90	0.000015	0.09	5.58	6.73	0.03
01	2121	Max WS	Tr20_7h	0.51	35.00	36.97		36.97	0.000013	0.08	6.06	7.00	0.03
01	2121	Max WS	Tr20_12h	0.51	35.00	37.00		37.00	0.000012	0.08	6.23	7.10	0.03
01	2120			Lat Struct									
01	2119			Lat Struct									
01	2071	Max WS	Tr20_2h	0.50	34.78	36.71		36.71	0.000003	0.05	10.25	8.46	0.01
01	2071	Max WS	Tr20_4h	0.49	34.78	36.90		36.90	0.000002	0.04	11.91	9.09	0.01
01	2071	Max WS	Tr20_7h	0.51	34.78	36.97		36.97	0.000002	0.04	12.55	9.32	0.01
01	2071	Max WS	Tr20_12h	0.51	34.78	37.00		37.00	0.000002	0.04	12.77	9.40	0.01
01	2021	Max WS	Tr20_2h	0.50	34.83	36.71		36.71	0.000003	0.05	10.68	9.03	0.01
01	2021	Max WS	Tr20_4h	0.49	34.83	36.90		36.90	0.000002	0.04	12.43	9.46	0.01
01	2021	Max WS	Tr20_7h	0.51	34.83	36.97		36.97	0.000001	0.04	13.09	9.62	0.01
01	2021	Max WS	Tr20_12h	0.51	34.83	37.00		37.00	0.000001	0.04	13.33	9.67	0.01
01	1971	Max WS	Tr20_2h	0.50	34.78	36.71		36.71	0.000002	0.04	13.02	12.19	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1971	Max WS	Tr20_4h	0.49	34.78	36.90		36.90	0.000001	0.03	15.38	12.79	0.01
01	1971	Max WS	Tr20_7h	0.51	34.78	36.97		36.97	0.000001	0.03	16.27	12.99	0.01
01	1971	Max WS	Tr20_12h	0.51	34.78	37.00		37.00	0.000001	0.03	16.60	13.07	0.01
01	1921	Max WS	Tr20_2h	0.50	34.72	36.71	34.94	36.71	0.000002	0.04	13.40	11.84	0.01
01	1921	Max WS	Tr20_4h	0.49	34.72	36.90	34.94	36.90	0.000001	0.03	15.68	12.33	0.01
01	1921	Max WS	Tr20_7h	0.51	34.72	36.97	34.94	36.97	0.000001	0.03	16.54	12.50	0.01
01	1921	Max WS	Tr20_12h	0.51	34.72	37.00	34.94	37.00	0.000001	0.03	16.85	12.57	0.01
01	1900			Bridge									
01	1871	Max WS	Tr20_2h	0.50	34.79	36.71		36.71	0.000003	0.05	10.19	8.19	0.01
01	1871	Max WS	Tr20_4h	0.49	34.79	36.90		36.90	0.000002	0.04	11.79	8.77	0.01
01	1871	Max WS	Tr20_7h	0.51	34.79	36.97		36.97	0.000002	0.04	12.41	9.01	0.01
01	1871	Max WS	Tr20_12h	0.50	34.79	36.99		36.99	0.000002	0.04	12.63	9.11	0.01
01	1870			Lat Struct									
01	1869			Lat Struct									
01	1821	Max WS	Tr20_2h	0.50	34.79	36.71		36.71	0.000003	0.05	10.48	9.07	0.01
01	1821	Max WS	Tr20_4h	0.49	34.79	36.90		36.90	0.000002	0.04	12.24	9.58	0.01
01	1821	Max WS	Tr20_7h	0.50	34.79	36.97		36.97	0.000002	0.04	12.92	9.78	0.01
01	1821	Max WS	Tr20_12h	0.50	34.79	36.99		36.99	0.000001	0.04	13.16	9.89	0.01
01	1771	Max WS	Tr20_2h	0.50	34.83	36.71		36.71	0.000003	0.05	10.08	8.19	0.01
01	1771	Max WS	Tr20_4h	0.49	34.83	36.90		36.90	0.000002	0.04	11.68	8.76	0.01
01	1771	Max WS	Tr20_7h	0.50	34.83	36.97		36.97	0.000002	0.04	12.30	9.04	0.01
01	1771	Max WS	Tr20_12h	0.51	34.83	36.99		36.99	0.000002	0.04	12.52	9.14	0.01
01	1721	Max WS	Tr20_2h	0.50	34.75	36.71		36.71	0.000003	0.05	10.43	8.63	0.01
01	1721	Max WS	Tr20_4h	0.49	34.75	36.90		36.90	0.000002	0.04	12.10	9.18	0.01
01	1721	Max WS	Tr20_7h	0.50	34.75	36.97		36.97	0.000002	0.04	12.75	9.48	0.01
01	1721	Max WS	Tr20_12h	0.50	34.75	36.99		36.99	0.000001	0.04	12.99	9.59	0.01
01	1671	Max WS	Tr20_2h	0.50	34.76	36.71	34.99	36.71	0.000003	0.05	10.33	8.31	0.01
01	1671	Max WS	Tr20_4h	0.49	34.76	36.90	34.99	36.90	0.000002	0.04	11.94	8.75	0.01
01	1671	Max WS	Tr20_7h	0.50	34.76	36.97	34.99	36.97	0.000002	0.04	12.56	8.91	0.01
01	1671	Max WS	Tr20_12h	0.51	34.76	36.99	34.99	36.99	0.000001	0.04	12.77	8.96	0.01
01	1666			Bridge									
01	1661	Max WS	Tr20_2h	0.50	34.76	36.71		36.71	0.000003	0.05	10.33	8.31	0.01
01	1661	Max WS	Tr20_4h	0.49	34.76	36.90		36.90	0.000002	0.04	11.94	8.75	0.01
01	1661	Max WS	Tr20_7h	0.50	34.76	36.97		36.97	0.000002	0.04	12.55	8.91	0.01
01	1661	Max WS	Tr20_12h	0.50	34.76	36.99		36.99	0.000001	0.04	12.77	8.96	0.01
01	1660			Lat Struct									
01	1659			Lat Struct									
01	1621	Max WS	Tr20_2h	0.50	34.74	36.71		36.71	0.000003	0.05	10.38	8.63	0.01
01	1621	Max WS	Tr20_4h	0.49	34.74	36.90		36.90	0.000002	0.04	12.07	9.30	0.01
01	1621	Max WS	Tr20_7h	0.50	34.74	36.97		36.97	0.000002	0.04	12.73	9.55	0.01
01	1621	Max WS	Tr20_12h	0.50	34.74	36.99		36.99	0.000002	0.04	12.96	9.64	0.01
01	1571	Max WS	Tr20_2h	0.50	34.74	36.71		36.71	0.000002	0.05	10.93	9.34	0.01
01	1571	Max WS	Tr20_4h	0.49	34.74	36.90		36.90	0.000002	0.04	12.78	10.34	0.01
01	1571	Max WS	Tr20_7h	0.50	34.74	36.97		36.97	0.000001	0.04	13.52	10.89	0.01
01	1571	Max WS	Tr20_12h	0.50	34.74	36.99		36.99	0.000001	0.04	13.78	11.09	0.01
01	1521	Max WS	Tr20_2h	0.50	34.78	36.71		36.71	0.000002	0.04	11.64	9.44	0.01
01	1521	Max WS	Tr20_4h	0.49	34.78	36.90		36.90	0.000001	0.04	13.47	9.92	0.01
01	1521	Max WS	Tr20_7h	0.50	34.78	36.97		36.97	0.000001	0.04	14.17	10.10	0.01
01	1521	Max WS	Tr20_12h	0.50	34.78	36.99		36.99	0.000001	0.03	14.42	10.16	0.01
01	1471	Max WS	Tr20_2h	0.49	34.76	36.71		36.71	0.000003	0.05	10.29	8.92	0.01
01	1471	Max WS	Tr20_4h	0.49	34.76	36.90		36.90	0.000002	0.04	12.03	9.54	0.01
01	1471	Max WS	Tr20_7h	0.50	34.76	36.97		36.97	0.000002	0.04	12.71	9.77	0.01
01	1471	Max WS	Tr20_12h	0.50	34.76	36.99		36.99	0.000002	0.04	12.95	9.86	0.01
01	1421	Max WS	Tr20_2h	0.49	34.76	36.71	34.96	36.71	0.000003	0.05	9.89	8.33	0.01
01	1421	Max WS	Tr20_4h	0.49	34.76	36.90	34.96	36.90	0.000002	0.04	11.50	8.79	0.01
01	1421	Max WS	Tr20_7h	0.50	34.76	36.97	34.96	36.97	0.000002	0.04	12.12	8.96	0.01
01	1421	Max WS	Tr20_12h	0.50	34.76	36.99	34.96	36.99	0.000002	0.04	12.34	9.02	0.01
01	1416			Bridge									
01	1411	Max WS	Tr20_2h	0.49	34.76	36.71		36.71	0.000003	0.05	9.89	8.33	0.01
01	1411	Max WS	Tr20_4h	0.49	34.76	36.90		36.90	0.000002	0.04	11.50	8.79	0.01
01	1411	Max WS	Tr20_7h	0.50	34.76	36.97		36.97	0.000002	0.04	12.12	8.96	0.01
01	1411	Max WS	Tr20_12h	0.50	34.76	36.99		36.99	0.000002	0.04	12.34	9.02	0.01
01	1410			Lat Struct									
01	1409			Lat Struct									
01	1371	Max WS	Tr20_2h	0.49	34.72	36.71		36.71	0.000002	0.04	11.15	8.58	0.01
01	1371	Max WS	Tr20_4h	0.49	34.72	36.90		36.90	0.000001	0.04	12.83	9.41	0.01
01	1371	Max WS	Tr20_7h	0.50	34.72	36.97		36.97	0.000001	0.04	13.51	9.98	0.01
01	1371	Max WS	Tr20_12h	0.50	34.72	36.99		36.99	0.000001	0.04	13.75	10.18	0.01
01	1321	Max WS	Tr20_2h	0.49	34.66	36.71		36.71	0.000002	0.04	12.66	9.83	0.01
01	1321	Max WS	Tr20_4h	0.49	34.66	36.90		36.90	0.000001	0.03	14.56	10.33	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1321	Max WS	Tr20_7h	0.50	34.66	36.97		36.97	0.000001	0.03	15.29	10.61	0.01
01	1321	Max WS	Tr20_12h	0.50	34.66	36.99		36.99	0.000001	0.03	15.55	10.70	0.01
01	1320			Lat Struct									
01	1271	Max WS	Tr20_2h	0.49	34.62	36.71		36.71	0.000002	0.04	11.89	9.32	0.01
01	1271	Max WS	Tr20_4h	0.49	34.62	36.90		36.90	0.000001	0.04	13.75	10.42	0.01
01	1271	Max WS	Tr20_7h	0.50	34.62	36.97		36.97	0.000001	0.03	14.49	10.70	0.01
01	1271	Max WS	Tr20_12h	0.50	34.62	36.99		36.99	0.000001	0.03	14.75	10.78	0.01
01	1221	Max WS	Tr20_2h	0.49	34.67	36.71		36.71	0.000002	0.04	12.44	10.01	0.01
01	1221	Max WS	Tr20_4h	0.49	34.67	36.90		36.90	0.000001	0.03	14.39	10.57	0.01
01	1221	Max WS	Tr20_7h	0.50	34.67	36.97		36.97	0.000001	0.03	15.13	10.79	0.01
01	1221	Max WS	Tr20_12h	0.50	34.67	36.99		36.99	0.000001	0.03	15.40	10.88	0.01
01	1171	Max WS	Tr20_2h	0.49	34.66	36.71		36.71	0.000002	0.04	12.12	9.61	0.01
01	1171	Max WS	Tr20_4h	0.49	34.66	36.90		36.90	0.000001	0.04	14.00	10.31	0.01
01	1171	Max WS	Tr20_7h	0.50	34.66	36.97		36.97	0.000001	0.03	14.73	10.56	0.01
01	1171	Max WS	Tr20_12h	0.50	34.66	36.99		36.99	0.000001	0.03	14.99	10.65	0.01
01	1121	Max WS	Tr20_2h	0.49	34.57	36.71	34.77	36.71	0.000001	0.04	12.36	8.54	0.01
01	1121	Max WS	Tr20_4h	0.49	34.57	36.90	34.77	36.90	0.000001	0.04	14.03	9.13	0.01
01	1121	Max WS	Tr20_7h	0.50	34.57	36.97	34.77	36.97	0.000001	0.03	14.68	9.35	0.01
01	1121	Max WS	Tr20_12h	0.50	34.57	36.99	34.77	36.99	0.000001	0.03	14.91	9.43	0.01
01	1115			Bridge									
01	1096	Max WS	Tr20_2h	0.49	34.57	36.71		36.71	0.000001	0.04	12.36	8.54	0.01
01	1096	Max WS	Tr20_4h	0.49	34.57	36.90		36.90	0.000001	0.04	14.03	9.13	0.01
01	1096	Max WS	Tr20_7h	0.50	34.57	36.97		36.97	0.000001	0.03	14.67	9.35	0.01
01	1096	Max WS	Tr20_12h	0.50	34.57	36.99		36.99	0.000001	0.03	14.90	9.43	0.01
01	1094			Lat Struct									
01	1093			Lat Struct									
01	1071	Max WS	Tr20_2h	0.49	34.58	36.71		36.71	0.000002	0.04	11.18	9.31	0.01
01	1071	Max WS	Tr20_4h	0.49	34.58	36.90		36.90	0.000001	0.04	13.03	10.26	0.01
01	1071	Max WS	Tr20_7h	0.50	34.58	36.97		36.97	0.000001	0.04	13.76	10.61	0.01
01	1071	Max WS	Tr20_12h	0.50	34.58	36.99		36.99	0.000001	0.04	14.02	10.73	0.01
01	1021	Max WS	Tr20_2h	0.49	34.59	36.71		36.71	0.000002	0.04	10.94	9.22	0.01
01	1021	Max WS	Tr20_4h	0.49	34.59	36.90		36.90	0.000002	0.04	12.78	10.16	0.01
01	1021	Max WS	Tr20_7h	0.50	34.59	36.97		36.97	0.000001	0.04	13.49	10.38	0.01
01	1021	Max WS	Tr20_12h	0.50	34.59	36.99		36.99	0.000001	0.04	13.75	10.45	0.01
01	971	Max WS	Tr20_2h	0.49	34.60	36.71		36.71	0.000002	0.04	10.84	8.72	0.01
01	971	Max WS	Tr20_4h	0.49	34.60	36.90		36.90	0.000002	0.04	12.75	10.34	0.01
01	971	Max WS	Tr20_7h	0.50	34.60	36.97		36.97	0.000001	0.04	13.47	10.52	0.01
01	971	Max WS	Tr20_12h	0.50	34.60	36.99		36.99	0.000001	0.04	13.73	10.58	0.01
01	921	Max WS	Tr20_2h	0.49	34.45	36.71		36.71	0.000002	0.05	10.79	8.31	0.01
01	921	Max WS	Tr20_4h	0.49	34.45	36.90		36.90	0.000002	0.04	12.49	9.66	0.01
01	921	Max WS	Tr20_7h	0.50	34.45	36.97		36.97	0.000001	0.04	13.18	10.12	0.01
01	921	Max WS	Tr20_12h	0.50	34.45	36.99		36.99	0.000001	0.04	13.42	10.23	0.01
01	871	Max WS	Tr20_2h	0.49	34.57	36.71		36.71	0.000002	0.04	11.44	8.79	0.01
01	871	Max WS	Tr20_4h	0.49	34.57	36.90		36.90	0.000001	0.04	13.17	9.43	0.01
01	871	Max WS	Tr20_7h	0.50	34.57	36.97		36.97	0.000001	0.04	13.83	9.67	0.01
01	871	Max WS	Tr20_12h	0.50	34.57	36.99		36.99	0.000001	0.04	14.07	9.75	0.01
01	856	Max WS	Tr20_2h	0.48	34.57	36.71	34.84	36.71	0.000002	0.04	11.44	8.79	0.01
01	856	Max WS	Tr20_4h	0.49	34.57	36.90	34.84	36.90	0.000001	0.04	13.17	9.43	0.01
01	856	Max WS	Tr20_7h	0.50	34.57	36.97	34.84	36.97	0.000001	0.04	13.83	9.67	0.01
01	856	Max WS	Tr20_12h	0.50	34.57	36.99	34.84	36.99	0.000001	0.04	14.07	9.75	0.01
01	830			Bridge									
01	806	Max WS	Tr20_2h	0.48	34.57	36.71		36.71	0.000002	0.04	11.43	8.78	0.01
01	806	Max WS	Tr20_4h	0.49	34.57	36.90		36.90	0.000001	0.04	13.16	9.43	0.01
01	806	Max WS	Tr20_7h	0.50	34.57	36.97		36.97	0.000001	0.04	13.82	9.67	0.01
01	806	Max WS	Tr20_12h	0.50	34.57	36.99		36.99	0.000001	0.04	14.06	9.75	0.01
01	805			Lat Struct									
01	804			Lat Struct									
01	771	Max WS	Tr20_2h	0.48	34.33	36.71		36.71	0.000001	0.04	12.87	9.33	0.01
01	771	Max WS	Tr20_4h	0.49	34.33	36.90		36.90	0.000001	0.03	14.67	9.74	0.01
01	771	Max WS	Tr20_7h	0.50	34.33	36.97		36.97	0.000001	0.03	15.36	9.90	0.01
01	771	Max WS	Tr20_12h	0.50	34.33	36.99		36.99	0.000001	0.03	15.60	9.95	0.01
01	721	Max WS	Tr20_2h	0.48	34.31	36.71	34.63	36.71	0.000001	0.04	12.19	8.29	0.01
01	721	Max WS	Tr20_4h	0.49	34.31	36.90	34.63	36.90	0.000001	0.04	13.81	8.85	0.01
01	721	Max WS	Tr20_7h	0.50	34.31	36.97	34.64	36.97	0.000001	0.03	14.44	9.06	0.01
01	721	Max WS	Tr20_12h	0.50	34.31	36.99	34.64	36.99	0.000001	0.03	14.66	9.13	0.01
01	690			Bridge									
01	681	Max WS	Tr20_2h	0.48	34.31	36.71		36.71	0.000001	0.04	12.19	8.29	0.01
01	681	Max WS	Tr20_4h	0.49	34.31	36.90		36.90	0.000001	0.04	13.81	8.85	0.01
01	681	Max WS	Tr20_7h	0.50	34.31	36.97		36.97	0.000001	0.03	14.44	9.06	0.01
01	681	Max WS	Tr20_12h	0.50	34.31	36.99		36.99	0.000001	0.03	14.66	9.13	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	680			Lat Struct									
01	679			Lat Struct									
01	671	Max WS	Tr20_2h	0.48	34.38	36.71		36.71	0.000002	0.04	12.49	9.31	0.01
01	671	Max WS	Tr20_4h	0.49	34.38	36.90		36.90	0.000001	0.03	14.30	9.76	0.01
01	671	Max WS	Tr20_7h	0.50	34.38	36.97		36.97	0.000001	0.03	14.99	9.94	0.01
01	671	Max WS	Tr20_12h	0.50	34.38	36.99		36.99	0.000001	0.03	15.23	10.00	0.01
01	621	Max WS	Tr20_2h	0.48	34.37	36.71		36.71	0.000001	0.04	12.70	9.60	0.01
01	621	Max WS	Tr20_4h	0.49	34.37	36.90		36.90	0.000001	0.03	14.58	10.24	0.01
01	621	Max WS	Tr20_7h	0.50	34.37	36.97		36.97	0.000001	0.03	15.30	10.48	0.01
01	621	Max WS	Tr20_12h	0.50	34.37	36.99		36.99	0.000001	0.03	15.56	10.56	0.01
01	571	Max WS	Tr20_2h	0.48	34.16	36.71	34.54	36.71	0.000002	0.04	11.95	7.93	0.01
01	571	Max WS	Tr20_4h	0.49	34.16	36.90	34.54	36.90	0.000001	0.04	13.51	8.49	0.01
01	571	Max WS	Tr20_7h	0.50	34.16	36.97	34.54	36.97	0.000001	0.04	14.11	8.70	0.01
01	571	Max WS	Tr20_12h	0.50	34.16	36.99	34.54	36.99	0.000001	0.04	14.32	8.77	0.01
01	566			Bridge									
01	561	Max WS	Tr20_2h	0.48	34.16	36.71		36.71	0.000002	0.04	11.95	7.93	0.01
01	561	Max WS	Tr20_4h	0.49	34.16	36.90		36.90	0.000001	0.04	13.51	8.49	0.01
01	561	Max WS	Tr20_7h	0.50	34.16	36.97		36.97	0.000001	0.04	14.11	8.70	0.01
01	561	Max WS	Tr20_12h	0.50	34.16	36.99		36.99	0.000001	0.04	14.32	8.77	0.01
01	560			Lat Struct									
01	559			Lat Struct									
01	521	Max WS	Tr20_2h	0.48	34.08	36.71		36.71	0.000001	0.03	14.18	9.10	0.01
01	521	Max WS	Tr20_4h	0.49	34.08	36.90		36.90	0.000001	0.03	15.97	9.86	0.01
01	521	Max WS	Tr20_7h	0.50	34.08	36.97		36.97	0.000001	0.03	16.67	10.12	0.01
01	521	Max WS	Tr20_12h	0.50	34.08	36.99		36.99	0.000001	0.03	16.92	10.21	0.01
01	471	Max WS	Tr20_2h	0.48	34.06	36.71		36.71	0.000001	0.03	14.21	9.31	0.01
01	471	Max WS	Tr20_4h	0.49	34.06	36.90		36.90	0.000001	0.03	16.04	10.04	0.01
01	471	Max WS	Tr20_7h	0.50	34.06	36.97		36.97	0.000001	0.03	16.75	10.35	0.01
01	471	Max WS	Tr20_12h	0.50	34.06	36.99		36.99	0.000001	0.03	17.00	10.46	0.01
01	421	Max WS	Tr20_2h	0.48	34.23	36.71		36.71	0.000001	0.03	14.03	9.75	0.01
01	421	Max WS	Tr20_4h	0.49	34.23	36.90		36.90	0.000001	0.03	15.93	10.27	0.01
01	421	Max WS	Tr20_7h	0.50	34.23	36.97		36.97	0.000001	0.03	16.65	10.49	0.01
01	421	Max WS	Tr20_12h	0.50	34.23	36.99		36.99	0.000001	0.03	16.91	10.56	0.01
01	371	Max WS	Tr20_2h	0.48	34.07	36.71		36.71	0.000001	0.03	14.90	10.14	0.01
01	371	Max WS	Tr20_4h	0.49	34.07	36.90		36.90	0.000001	0.03	16.89	10.87	0.01
01	371	Max WS	Tr20_7h	0.50	34.07	36.97		36.97	0.000001	0.03	17.66	11.09	0.01
01	371	Max WS	Tr20_12h	0.50	34.07	36.99		36.99	0.000001	0.03	17.93	11.17	0.01
01	321	Max WS	Tr20_2h	0.48	33.98	36.71		36.71	0.000001	0.03	14.88	9.75	0.01
01	321	Max WS	Tr20_4h	0.49	33.98	36.90		36.90	0.000001	0.03	16.78	10.29	0.01
01	321	Max WS	Tr20_7h	0.50	33.98	36.97		36.97	0.000001	0.03	17.51	10.48	0.01
01	321	Max WS	Tr20_12h	0.50	33.98	36.99		36.99	0.000001	0.03	17.76	10.55	0.01
01	271	Max WS	Tr20_2h	0.48	33.94	36.71		36.71	0.000001	0.03	13.99	9.04	0.01
01	271	Max WS	Tr20_4h	0.49	33.94	36.90		36.90	0.000001	0.03	15.95	11.01	0.01
01	271	Max WS	Tr20_7h	0.50	33.94	36.97		36.97	0.000001	0.03	16.73	11.30	0.01
01	271	Max WS	Tr20_12h	0.50	33.94	36.99		36.99	0.000001	0.03	17.01	11.36	0.01
01	221	Max WS	Tr20_2h	0.47	34.00	36.71		36.71	0.000001	0.03	15.24	10.39	0.01
01	221	Max WS	Tr20_4h	0.49	34.00	36.90		36.90	0.000001	0.03	17.26	10.94	0.01
01	221	Max WS	Tr20_7h	0.50	34.00	36.97		36.97	0.000001	0.03	18.03	11.11	0.01
01	221	Max WS	Tr20_12h	0.50	34.00	36.99		36.99	0.000001	0.03	18.30	11.17	0.01
01	171	Max WS	Tr20_2h	0.47	34.10	36.71		36.71	0.000001	0.03	14.03	9.87	0.01
01	171	Max WS	Tr20_4h	0.49	34.10	36.90		36.90	0.000001	0.03	15.94	10.32	0.01
01	171	Max WS	Tr20_7h	0.50	34.10	36.97		36.97	0.000001	0.03	16.67	10.48	0.01
01	171	Max WS	Tr20_12h	0.50	34.10	36.99		36.99	0.000001	0.03	16.93	11.55	0.01
01	121	Max WS	Tr20_2h	0.47	33.92	36.71		36.71	0.000001	0.04	13.36	9.52	0.01
01	121	Max WS	Tr20_4h	0.49	33.92	36.90		36.90	0.000001	0.03	15.21	10.04	0.01
01	121	Max WS	Tr20_7h	0.50	33.92	36.97		36.97	0.000001	0.03	15.92	10.24	0.01
01	121	Max WS	Tr20_12h	0.50	33.92	36.99		36.99	0.000001	0.03	16.17	10.30	0.01
01	71	Max WS	Tr20_2h	0.47	33.83	36.71	34.01	36.71	0.000000	0.03	18.25	8.70	0.01
01	71	Max WS	Tr20_4h	0.49	33.83	36.90	34.02	36.90	0.000000	0.02	19.93	9.14	0.01
01	71	Max WS	Tr20_7h	0.50	33.83	36.97	34.02	36.97	0.000000	0.02	20.58	9.34	0.01
01	71	Max WS	Tr20_12h	0.50	33.83	36.99	34.02	36.99	0.000000	0.02	20.83	10.41	0.01
01	69			Int Struct									
01	66	Max WS	Tr20_2h	0.47	33.00	33.59		33.60	0.001059	0.47	1.01	2.42	0.23
01	66	Max WS	Tr20_4h	0.49	33.00	33.61		33.62	0.001054	0.47	1.04	2.45	0.23
01	66	Max WS	Tr20_7h	0.50	33.00	33.61		33.62	0.001052	0.47	1.06	2.46	0.23
01	66	Max WS	Tr20_12h	0.50	33.00	33.61		33.62	0.001050	0.47	1.06	2.47	0.23
01	21	Max WS	Tr20_2h	0.47	32.86	33.55	33.17	33.56	0.001005	0.47	1.01	2.20	0.22
01	21	Max WS	Tr20_4h	0.49	32.86	33.56	33.18	33.57	0.001007	0.47	1.04	2.22	0.22
01	21	Max WS	Tr20_7h	0.50	32.86	33.56	33.18	33.58	0.001008	0.47	1.05	2.23	0.22
01	21	Max WS	Tr20_12h	0.50	32.86	33.57	33.18	33.58	0.001007	0.47	1.06	2.23	0.22

HEC-RAS River: Colechio Reach: 01 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	7371	Max WS	Tr30_2h	3.41	39.96	41.10		41.14	0.001724	0.95	4.28	9.00	0.34
01	7371	Max WS	Tr30_4h	4.61	39.96	41.24		41.28	0.001619	1.03	5.48	9.00	0.34
01	7371	Max WS	Tr30_7h	3.86	39.96	41.16		41.20	0.001630	0.97	4.80	9.00	0.34
01	7371	Max WS	Tr30_12h	2.86	39.96	41.02		41.06	0.001935	0.94	3.54	9.00	0.36
01	7321	Max WS	Tr30_2h	3.41	39.81	40.69		40.83	0.011750	1.66	2.05	4.69	0.80
01	7321	Max WS	Tr30_4h	4.60	39.81	40.76		40.95	0.014455	1.94	2.37	4.95	0.90
01	7321	Max WS	Tr30_7h	3.86	39.81	40.72		40.88	0.012838	1.77	2.18	4.79	0.84
01	7321	Max WS	Tr30_12h	2.86	39.81	40.66		40.77	0.010132	1.50	1.91	4.56	0.74
01	7320		Lat Struct										
01	7319		Lat Struct										
01	7271	Max WS	Tr30_2h	1.83	39.62	40.44		40.50	0.005495	1.07	1.79	5.26	0.55
01	7271	Max WS	Tr30_4h	2.12	39.62	40.45		40.52	0.006616	1.19	1.86	5.29	0.60
01	7271	Max WS	Tr30_7h	1.96	39.62	40.44		40.51	0.005981	1.12	1.82	5.28	0.57
01	7271	Max WS	Tr30_12h	1.66	39.62	40.43		40.48	0.004810	0.99	1.75	5.25	0.51
01	7221	Max WS	Tr30_2h	0.82	39.75	40.31		40.33	0.003570	0.71	1.35	7.69	0.43
01	7221	Max WS	Tr30_4h	0.88	39.75	40.32		40.34	0.003464	0.71	1.45	7.73	0.42
01	7221	Max WS	Tr30_7h	0.85	39.75	40.31		40.34	0.003519	0.71	1.40	7.71	0.43
01	7221	Max WS	Tr30_12h	0.78	39.75	40.30		40.32	0.003668	0.71	1.29	7.67	0.43
01	7171	Max WS	Tr30_2h	0.80	39.37	40.19		40.21	0.001460	0.54	1.59	6.57	0.28
01	7171	Max WS	Tr30_4h	0.83	39.37	40.22		40.23	0.001321	0.52	1.74	7.09	0.26
01	7171	Max WS	Tr30_7h	0.81	39.37	40.20		40.22	0.001415	0.54	1.65	6.78	0.27
01	7171	Max WS	Tr30_12h	0.77	39.37	40.18		40.20	0.001475	0.54	1.52	6.30	0.28
01	7121	Max WS	Tr30_2h	0.80	39.39	40.09		40.11	0.002527	0.66	1.21	3.56	0.36
01	7121	Max WS	Tr30_4h	0.82	39.39	40.13		40.15	0.001987	0.61	1.36	3.84	0.32
01	7121	Max WS	Tr30_7h	0.81	39.39	40.10		40.12	0.002335	0.64	1.26	3.66	0.35
01	7121	Max WS	Tr30_12h	0.77	39.39	40.07		40.10	0.002582	0.66	1.16	3.47	0.37
01	7071	Max WS	Tr30_2h	0.80	39.26	40.00		40.01	0.001467	0.54	1.49	4.05	0.28
01	7071	Max WS	Tr30_4h	0.82	39.26	40.06		40.07	0.001009	0.46	1.79	5.36	0.24
01	7071	Max WS	Tr30_7h	0.81	39.26	40.02		40.03	0.001314	0.51	1.60	4.31	0.27
01	7071	Max WS	Tr30_12h	0.77	39.26	39.98		40.00	0.001485	0.54	1.44	3.89	0.28
01	7021	Max WS	Tr30_2h	0.80	39.43	39.93		39.95	0.001178	0.47	1.82	8.33	0.26
01	7021	Max WS	Tr30_4h	0.70	39.43	40.04		40.04	0.000328	0.29	2.88	10.90	0.14
01	7021	Max WS	Tr30_7h	0.81	39.43	39.97		39.98	0.000822	0.42	2.19	10.56	0.22
01	7021	Max WS	Tr30_12h	0.77	39.43	39.91		39.93	0.001341	0.49	1.66	7.81	0.27
01	6971	Max WS	Tr30_2h	0.62	39.04	39.91		39.91	0.000321	0.30	2.12	5.00	0.14
01	6971	Max WS	Tr30_4h	0.43	39.04	40.03		40.04	0.000073	0.17	2.75	5.00	0.07
01	6971	Max WS	Tr30_7h	0.23	39.04	39.97		39.97	0.000029	0.10	2.42	5.00	0.04
01	6971	Max WS	Tr30_12h	0.71	39.04	39.87		39.88	0.000531	0.38	1.96	5.00	0.18
01	6921	Max WS	Tr30_2h	0.11	38.90	39.91		39.91	0.000004	0.03	3.72	13.61	0.02
01	6921	Max WS	Tr30_4h	0.40	38.90	40.03		40.03	0.000020	0.08	5.45	14.00	0.04
01	6921	Max WS	Tr30_7h	0.24	38.90	39.97		39.97	0.000012	0.06	4.58	14.00	0.03
01	6921	Max WS	Tr30_12h	0.49	38.90	39.87		39.87	0.000099	0.16	3.21	12.66	0.08
01	6880		Lat Struct										
01	6879		Lat Struct										
01	6871	Max WS	Tr30_2h	0.11	39.12	39.90		39.90	0.000013	0.06	1.91	4.33	0.03
01	6871	Max WS	Tr30_4h	0.19	39.12	40.03		40.03	0.000020	0.08	2.60	8.24	0.03
01	6871	Max WS	Tr30_7h	0.10	39.12	39.97		39.97	0.000008	0.05	2.18	4.69	0.02
01	6871	Max WS	Tr30_12h	0.49	39.12	39.85		39.86	0.000355	0.29	1.69	4.03	0.14
01	6821	Max WS	Tr30_2h	0.11	39.03	39.90		39.90	0.000012	0.05	2.05	4.67	0.03
01	6821	Max WS	Tr30_4h	0.09	39.03	40.03		40.03	0.000003	0.03	2.81	7.00	0.01
01	6821	Max WS	Tr30_7h	0.09	39.03	39.96		39.96	0.000006	0.04	2.38	6.35	0.02
01	6821	Max WS	Tr30_12h	0.49	39.03	39.84		39.84	0.000331	0.28	1.75	4.11	0.14
01	6820		Lat Struct										
01	6819		Lat Struct										
01	6771	Max WS	Tr30_2h	0.11	38.78	39.90		39.90	0.000005	0.04	2.96	12.73	0.02
01	6771	Max WS	Tr30_4h	0.00	38.78	40.03		40.03	0.000000	0.00	4.69	14.00	0.00
01	6771	Max WS	Tr30_7h	0.04	38.78	39.96		39.96	0.000000	0.01	3.80	14.00	0.00
01	6771	Max WS	Tr30_12h	0.48	38.78	39.83		39.83	0.000151	0.22	2.24	5.09	0.09
01	6721	Max WS	Tr30_2h	-0.01	38.83	39.90		39.90	0.000000	0.00	3.84	13.00	0.00
01	6721	Max WS	Tr30_4h	-0.08	38.83	40.03		40.03	0.000001	-0.02	5.46	13.00	0.01
01	6721	Max WS	Tr30_7h	-0.05	38.83	39.96		39.96	0.000000	-0.01	4.63	13.00	0.00
01	6721	Max WS	Tr30_12h	0.48	38.83	39.82		39.82	0.000137	0.20	2.76	11.45	0.09
01	6671	Max WS	Tr30_2h	-0.09	39.04	39.90		39.90	0.000004	-0.03	2.87	8.00	0.02
01	6671	Max WS	Tr30_4h	-0.02	39.04	40.03		40.03	0.000000	-0.01	3.87	8.00	0.00
01	6671	Max WS	Tr30_7h	-0.06	39.04	39.96		39.96	0.000001	-0.02	3.36	8.00	0.01
01	6671	Max WS	Tr30_12h	0.24	39.04	39.82		39.82	0.000060	0.12	2.19	7.37	0.06
01	6621	Max WS	Tr30_2h	0.11	38.92	39.90		39.90	0.000013	0.06	1.91	4.90	0.03
01	6621	Max WS	Tr30_4h	0.04	38.92	40.03		40.03	0.000001	0.02	2.58	6.00	0.01
01	6621	Max WS	Tr30_7h	0.08	38.92	39.96		39.96	0.000004	0.04	2.21	4.98	0.02
01	6621	Max WS	Tr30_12h	0.16	38.92	39.82		39.82	0.000041	0.10	1.58	3.45	0.05
01	6571	Max WS	Tr30_2h	-0.05	38.74	39.90		39.90	0.000001	-0.02	2.94	7.26	0.01
01	6571	Max WS	Tr30_4h	-0.06	38.74	40.03		40.03	0.000001	-0.02	4.06	10.00	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)													
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6571	Max WS	Tr30_7h	-0.14	38.74	39.96		39.96	0.000004	-0.05	3.43	8.82	0.02
01	6571	Max WS	Tr30_12h	0.16	38.74	39.81		39.81	0.000013	0.07	2.39	5.13	0.03
01	6521	Max WS	Tr30_2h	-0.08	38.69	39.90		39.90	0.000001	-0.02	4.15	11.00	0.01
01	6521	Max WS	Tr30_4h	-0.02	38.69	40.03		40.03	0.000000	0.00	5.52	11.00	0.00
01	6521	Max WS	Tr30_7h	0.02	38.69	39.96		39.96	0.000000	0.01	4.82	11.00	0.00
01	6521	Max WS	Tr30_12h	0.18	38.69	39.81		39.81	0.000012	0.06	3.17	10.33	0.03
01	6471	Max WS	Tr30_2h	0.05	38.71	39.90		39.90	0.000000	0.01	8.50	18.00	0.00
01	6471	Max WS	Tr30_4h	0.05	38.71	40.03		40.03	0.000000	0.01	10.75	18.00	0.00
01	6471	Max WS	Tr30_7h	0.04	38.71	39.96		39.96	0.000000	0.01	9.61	18.00	0.00
01	6471	Max WS	Tr30_12h	0.53	38.71	39.81		39.81	0.000024	0.10	6.86	18.00	0.04
01	6421	Max WS	Tr30_2h	-0.10	38.72	39.90		39.90	0.000001	-0.02	4.61	8.00	0.01
01	6421	Max WS	Tr30_4h	0.11	38.72	40.03		40.03	0.000001	0.02	5.61	8.00	0.01
01	6421	Max WS	Tr30_7h	0.08	38.72	39.96		39.96	0.000001	0.02	5.10	8.00	0.00
01	6421	Max WS	Tr30_12h	0.24	38.72	39.81		39.81	0.000012	0.07	3.87	8.00	0.03
01	6371	Max WS	Tr30_2h	-0.46	38.60	39.90		39.90	0.000047	-0.14	3.86	9.72	0.05
01	6371	Max WS	Tr30_4h	0.07	38.60	40.03		40.03	0.000000	0.01	5.31	13.28	0.01
01	6371	Max WS	Tr30_7h	0.10	38.60	39.96		39.96	0.000002	0.03	4.51	11.41	0.01
01	6371	Max WS	Tr30_12h	-0.65	38.60	39.81		39.81	0.000149	-0.23	3.08	8.34	0.09
01	6321	Max WS	Tr30_2h	0.91	38.51	39.90		39.90	0.000060	0.18	5.37	8.75	0.06
01	6321	Max WS	Tr30_4h	-0.24	38.51	40.03		40.03	0.000002	-0.04	6.51	9.00	0.01
01	6321	Max WS	Tr30_7h	0.38	38.51	39.96		39.96	0.000008	0.07	5.93	9.00	0.02
01	6321	Max WS	Tr30_12h	1.42	38.51	39.80		39.81	0.000224	0.32	4.54	7.91	0.12
01	6271	Max WS	Tr30_2h	3.38	38.44	39.83		39.86	0.000992	0.69	5.16	13.34	0.26
01	6271	Max WS	Tr30_4h	4.13	38.44	39.98		39.99	0.000729	0.64	7.94	22.78	0.23
01	6271	Max WS	Tr30_7h	3.71	38.44	39.90		39.92	0.000870	0.67	6.37	20.04	0.24
01	6271	Max WS	Tr30_12h	2.83	38.44	39.74		39.76	0.001012	0.67	4.24	7.42	0.26
01	6258.5	Max WS	Tr30_2h	3.38	38.39	39.82	39.24	39.84					

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5999			Lat Struct									
01	5971	Max WS	Tr30_2h	4.24	37.58	39.25		39.29	0.001204	0.81	5.27	7.00	0.28
01	5971	Max WS	Tr30_4h	4.56	37.58	39.26		39.30	0.001341	0.86	5.33	7.00	0.29
01	5971	Max WS	Tr30_7h	4.42	37.58	39.26		39.29	0.001280	0.84	5.31	7.00	0.29
01	5971	Max WS	Tr30_12h	4.06	37.58	39.25		39.28	0.001123	0.78	5.23	6.98	0.27
01	5921	Max WS	Tr30_2h	3.88	37.53	39.17		39.21	0.002023	0.92	4.24	6.38	0.35
01	5921	Max WS	Tr30_4h	4.02	37.53	39.18		39.22	0.002073	0.94	4.31	6.60	0.35
01	5921	Max WS	Tr30_7h	3.96	37.53	39.18		39.22	0.002032	0.92	4.29	6.54	0.35
01	5921	Max WS	Tr30_12h	3.79	37.53	39.16		39.21	0.001976	0.90	4.21	6.29	0.34
01	5871	Max WS	Tr30_2h	3.82	37.59	39.10		39.13	0.001109	0.78	4.91	5.77	0.27
01	5871	Max WS	Tr30_4h	3.91	37.59	39.11		39.15	0.001125	0.79	4.97	5.82	0.27
01	5871	Max WS	Tr30_7h	3.86	37.59	39.11		39.14	0.001106	0.78	4.96	5.81	0.27
01	5871	Max WS	Tr30_12h	3.75	37.59	39.10		39.13	0.001082	0.77	4.89	5.76	0.27
01	5870			Lat Struct									
01	5821	Max WS	Tr30_2h	3.81	37.63	39.01		39.05	0.002186	0.90	4.22	6.81	0.37
01	5821	Max WS	Tr30_4h	3.87	37.63	39.02		39.06	0.002142	0.90	4.29	6.83	0.36
01	5821	Max WS	Tr30_7h	3.84	37.63	39.02		39.06	0.002106	0.89	4.29	6.83	0.36
01	5821	Max WS	Tr30_12h	3.74	37.63	39.01		39.05	0.002124	0.89	4.21	6.81	0.36
01	5771	Max WS	Tr30_2h	3.79	37.26	38.92		38.96	0.001655	0.88	4.36	6.56	0.32
01	5771	Max WS	Tr30_4h	3.77	37.26	38.93		38.97	0.001550	0.85	4.46	6.60	0.31
01	5771	Max WS	Tr30_7h	3.76	37.26	38.94		38.97	0.001527	0.85	4.47	6.61	0.31
01	5771	Max WS	Tr30_12h	3.74	37.26	38.92		38.96	0.001598	0.86	4.37	6.57	0.31
01	5721	Max WS	Tr30_2h	3.77	37.37	38.82		38.87	0.001931	0.96	3.92	4.73	0.34
01	5721	Max WS	Tr30_4h	3.74	37.37	38.84		38.89	0.001783	0.93	4.03	4.85	0.33
01	5721	Max WS	Tr30_7h	3.73	37.37	38.85		38.89	0.001758	0.92	4.04	4.86	0.32
01	5721	Max WS	Tr30_12h	3.73	37.37	38.83		38.87	0.001863	0.95	3.95	4.76	0.33
01	5671	Max WS	Tr30_2h	3.75	37.26	38.77		38.79	0.001004	0.76	4.90	5.13	0.25
01	5671	Max WS	Tr30_4h	3.72	37.26	38.79		38.82	0.000926	0.74	5.04	5.24	0.24
01	5671	Max WS	Tr30_7h	3.72	37.26	38.80		38.82	0.000916	0.73	5.06	5.26	0.24
01	5671	Max WS	Tr30_12h	3.73	37.26	38.77		38.80	0.000979	0.76	4.94	5.16	0.25
01	5621	Max WS	Tr30_2h	3.75	37.22	38.71		38.74	0.001056	0.77	4.88	5.64	0.26
01	5621	Max WS	Tr30_4h	3.71	37.22	38.75		38.77	0.000951	0.73	5.06	5.81	0.25
01	5621	Max WS	Tr30_7h	3.71	37.22	38.75		38.78	0.000941	0.73	5.09	5.84	0.25
01	5621	Max WS	Tr30_12h	3.72	37.22	38.72		38.75	0.001018	0.76	4.93	5.69	0.26
01	5601.	Max WS	Tr30_2h	3.75	37.16	38.70	37.96	38.72	0.000946	0.73	5.15	6.02	0.25
01	5601.	Max WS	Tr30_4h	3.70	37.16	38.73	37.95	38.75	0.000838	0.69	5.36	6.19	0.24
01	5601.	Max WS	Tr30_7h	3.71	37.16	38.74	37.95	38.76	0.000829	0.69	5.39	6.21	0.24
01	5601.	Max WS	Tr30_12h	3.71	37.16	38.71	37.96	38.73	0.000905	0.71	5.21	6.07	0.25
01	5591			Bridge									
01	5586	Max WS	Tr30_2h	3.71	37.16	38.68		38.71	0.000976	0.74	5.05	5.94	0.25
01	5586	Max WS	Tr30_4h	3.69	37.16	38.72		38.74	0.000870	0.70	5.27	6.12	0.24
01	5586	Max WS	Tr30_7h	3.70	37.16	38.72		38.75	0.000861	0.70	5.30	6.14	0.24
01	5586	Max WS	Tr30_12h	3.70	37.16	38.69		38.72	0.000941	0.72	5.11	5.99	0.25
01	5585			Lat Struct									
01	5584			Lat Struct									
01	5571	Max WS	Tr30_2h	3.70	37.07	38.67		38.69	0.000803	0.70	5.30	5.99	0.23
01	5571	Max WS	Tr30_4h	3.69	37.07	38.71		38.73	0.000715	0.67	5.53	6.37	0.22
01	5571	Max WS	Tr30_7h	3.70	37.07	38.71		38.73	0.000708	0.67	5.57	6.42	0.22
01	5571	Max WS	Tr30_12h	3.70	37.07	38.68		38.70	0.000776	0.69	5.37	6.10	0.23
01	5521	Max WS	Tr30_2h	3.15	36.99	38.65		38.67	0.000512	0.56	5.63	5.98	0.18
01	5521	Max WS	Tr30_4h	2.72	36.99	38.70		38.71	0.000328	0.46	5.96	7.00	0.15
01	5521	Max WS	Tr30_7h	2.70	36.99	38.71		38.72	0.000314	0.45	6.01	7.00	0.14
01	5521	Max WS	Tr30_12h	3.02	36.99	38.67		38.68	0.000450	0.53	5.72	6.00	0.17
01	5471	Max WS	Tr30_2h	3.65	37.06	38.59		38.62	0.001239	0.79	5.00	10.64	0.28
01	5471	Max WS	Tr30_4h	3.15	37.06	38.67		38.68	0.000644	0.60	5.86	10.73	0.21
01	5471	Max WS	Tr30_7h	3.08	37.06	38.68		38.69	0.000591	0.58	5.96	10.74	0.20
01	5471	Max WS	Tr30_12h	3.58	37.06	38.61		38.64	0.001071	0.75	5.24	10.66	0.26
01	5421	Max WS	Tr30_2h	3.67	36.97	38.53	37.82	38.56	0.001081	0.79	4.62	4.95	0.26
01	5421	Max WS	Tr30_4h	3.24	36.97	38.63	37.78	38.65	0.000629	0.63	5.14	5.16	0.20
01	5421	Max WS	Tr30_7h	3.19	36.97	38.64	37.77	38.66	0.000590	0.61	5.20	5.18	0.20
01	5421	Max WS	Tr30_12h	3.61	36.97	38.56	37.82	38.59	0.000962	0.76	4.76	5.01	0.25
01	5415			Bridge									
01	5401	Max WS	Tr30_2h	3.67	36.97	38.50		38.54	0.001167	0.82	4.49	4.90	0.27
01	5401	Max WS	Tr30_4h	3.24	36.97	38.62		38.64	0.000653	0.64	5.07	5.13	0.21
01	5401	Max WS	Tr30_7h	3.19	36.97	38.63		38.65	0.000611	0.62	5.13	5.16	0.20
01	5401	Max WS	Tr30_12h	3.61	36.97	38.53		38.56	0.001027	0.78	4.65	4.96	0.26
01	5400			Lat Struct									
01	5399			Lat Struct									
01	5371	Max WS	Tr30_2h	3.67	36.88	38.49		38.51	0.000617	0.64	5.71	5.35	0.20
01	5371	Max WS	Tr30_4h	3.24	36.88	38.61		38.62	0.000359	0.51	6.38	5.65	0.15
01	5371	Max WS	Tr30_7h	3.18	36.88	38.62		38.64	0.000336	0.49	6.45	5.68	0.15

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5371	Max WS	Tr30_12h	3.61	36.88	38.52		38.54	0.000549	0.61	5.89	5.43	0.19
01	5321	Max WS	Tr30_2h	3.67	36.86	38.44		38.47	0.000886	0.73	5.02	4.94	0.23
01	5321	Max WS	Tr30_4h	3.24	36.86	38.59		38.60	0.000489	0.56	5.75	5.37	0.17
01	5321	Max WS	Tr30_7h	3.18	36.86	38.60		38.62	0.000456	0.55	5.82	5.41	0.17
01	5321	Max WS	Tr30_12h	3.61	36.86	38.48		38.51	0.000778	0.69	5.21	5.06	0.22
01	5271	Max WS	Tr30_2h	3.67	36.76	38.41	37.56	38.43	0.000685	0.66	5.54	5.36	0.21
01	5271	Max WS	Tr30_4h	3.23	36.76	38.57	37.52	38.58	0.000364	0.50	6.41	5.82	0.15
01	5271	Max WS	Tr30_7h	3.18	36.76	38.58	37.51	38.60	0.000341	0.49	6.50	5.88	0.15
01	5271	Max WS	Tr30_12h	3.61	36.76	38.45	37.55	38.47	0.000593	0.62	5.77	5.46	0.19
01	5265			Bridge									
01	5256	Max WS	Tr30_2h	3.67	36.76	38.40		38.42	0.000706	0.67	5.47	5.33	0.21
01	5256	Max WS	Tr30_4h	3.23	36.76	38.56		38.57	0.000373	0.51	6.34	5.77	0.16
01	5256	Max WS	Tr30_7h	3.18	36.76	38.57		38.58	0.000349	0.49	6.44	5.84	0.15
01	5256	Max WS	Tr30_12h	3.61	36.76	38.44		38.46	0.000608	0.63	5.72	5.43	0.20
01	5255			Lat Struct									
01	5254			Lat Struct									
01	5221	Max WS	Tr30_2h	3.67	36.72	38.37		38.39	0.000916	0.73	5.03	5.40	0.24
01	5221	Max WS	Tr30_4h	3.23	36.72	38.54		38.55	0.000456	0.54	6.03	6.13	0.17
01	5221	Max WS	Tr30_7h	3.18	36.72	38.56		38.57	0.000428	0.52	6.13	6.28	0.17
01	5221	Max WS	Tr30_12h	3.61	36.72	38.42		38.44	0.000775	0.68	5.30	5.59	0.22
01	5171	Max WS	Tr30_2h	3.74	36.63	38.33		38.35	0.000757	0.68	5.48	5.77	0.22
01	5171	Max WS	Tr30_4h	3.89	36.63	38.51		38.52	0.000522	0.59	6.59	6.53	0.19
01	5171	Max WS	Tr30_7h	3.88	36.63	38.52		38.54	0.000496	0.58	6.71	6.60	0.18
01	5171	Max WS	Tr30_12h	3.84	36.63	38.38		38.40	0.000703	0.66	5.78	5.98	0.22
01	5121	Max WS	Tr30_2h	3.80	36.78	38.26		38.30	0.001363	0.83	4.60	5.54	0.29
01	5121	Max WS	Tr30_4h	4.51	36.78	38.44		38.48	0.001089	0.80	5.66	6.09	0.26
01	5121	Max WS	Tr30_7h	4.53	36.78	38.46		38.50	0.001037	0.78	5.78	6.16	0.26
01	5121	Max WS	Tr30_12h	4.06	36.78	38.31		38.35	0.001328	0.83	4.87	5.68	0.29
01	5071	Max WS	Tr30_2h	3.80	36.79	38.16		38.21	0.001973	0.98	3.88	4.83	0.35
01	5071	Max WS	Tr30_4h	4.58	36.79	38.38		38.42	0.001339	0.87	6.19	18.73	0.29
01	5071	Max WS	Tr30_7h	4.62	36.79	38.41		38.44	0.001194	0.83	6.70	19.30	0.28
01	5071	Max WS	Tr30_12h	4.08	36.79	38.22		38.26	0.001948	0.99	4.17	7.09	0.35
01	5021	Max WS	Tr30_2h	3.84	36.56	38.08		38.12	0.001573	0.89	4.31	5.34	0.32
01	5021	Max WS	Tr30_4h	5.28	36.56	38.28		38.33	0.001635	0.97	5.45	6.15	0.33
01	5021	Max WS	Tr30_7h	5.45	36.56	38.31		38.36	0.001640	0.97	5.61	6.34	0.33
01	5021	Max WS	Tr30_12h	4.18	36.56	38.13		38.17	0.001598	0.92	4.57	5.49	0.32
01	4981.	Max WS	Tr30_2h	3.84	36.52	38.01	37.46	38.06	0.001802	0.95	4.04	4.93	0.34
01	4981.	Max WS	Tr30_4h	5.32	36.52	38.20	37.60	38.26	0.001959	1.06	5.04	5.63	0.36
01	4981.	Max WS	Tr30_7h	5.51	36.52	38.23	37.61	38.28	0.001963	1.06	5.18	5.74	0.36
01	4981.	Max WS	Tr30_12h	4.18	36.52	38.06	37.49	38.10	0.001845	0.98	4.26	5.05	0.34
01	4975			Bridge									
01	4971	Max WS	Tr30_2h	3.84	36.52	37.99		38.04	0.001955	0.98	3.92	4.87	0.35
01	4971	Max WS	Tr30_4h	5.32	36.52	38.18		38.24	0.002108	1.09	4.90	5.51	0.37
01	4971	Max WS	Tr30_7h	5.51	36.52	38.20		38.26	0.002113	1.10	5.03	5.62	0.37
01	4971	Max WS	Tr30_12h	4.18	36.52	38.03		38.08	0.001999	1.01	4.14	4.99	0.35
01	4970			Lat Struct									
01	4969			Lat Struct									
01	4921	Max WS	Tr30_2h	3.84	36.45	37.86		37.92	0.002614	1.10	3.50	4.40	0.39
01	4921	Max WS	Tr30_4h	5.32	36.45	38.03		38.11	0.002884	1.24	4.30	4.85	0.42
01	4921	Max WS	Tr30_7h	5.51	36.45	38.06		38.14	0.002872	1.25	4.42	4.91	0.42
01	4921	Max WS	Tr30_12h	4.18	36.45	37.90		37.97	0.002720	1.14	3.67	4.50	0.40
01	4871	Max WS	Tr30_2h	3.83	36.48	37.76	37.26	37.81	0.001958	0.98	3.92	5.05	0.35
01	4871	Max WS	Tr30_4h	5.32	36.48	37.92	37.40	37.99	0.002203	1.11	4.78	5.47	0.38
01	4871	Max WS	Tr30_7h	5.51	36.48	37.95	37.41	38.01	0.002186	1.12	4.92	5.53	0.38
01	4871	Max WS	Tr30_12h	4.18	36.48	37.79	37.30	37.85	0.002064	1.02	4.10	5.13	0.36
01	4860			Bridge									
01	4831	Max WS	Tr30_2h	3.67	36.48	37.59		37.66	0.003422	1.18	3.11	4.65	0.46
01	4831	Max WS	Tr30_4h	3.39	36.48	37.62		37.68	0.002561	1.04	3.26	4.75	0.40
01	4831	Max WS	Tr30_7h	3.96	36.48	37.62		37.70	0.003511	1.21	3.26	4.75	0.47
01	4831	Max WS	Tr30_12h	3.92	36.48	37.60		37.68	0.003794	1.25	3.14	4.67	0.49
01	4830			Lat Struct									
01	4829			Lat Struct									
01	4821	Max WS	Tr30_2h	3.69	35.95	37.62		37.64	0.000459	0.55	6.76	7.00	0.18
01	4821	Max WS	Tr30_4h	5.06	35.95	37.65		37.68	0.000785	0.72	7.00	7.67	0.23
01	4821	Max WS	Tr30_7h	5.29	35.95	37.66		37.69	0.000847	0.75	7.03	7.79	0.24
01	4821	Max WS	Tr30_12h	3.92	35.95	37.63		37.65	0.000505	0.57	6.84	7.10	0.19
01	4771	Max WS	Tr30_2h	2.78	36.05	37.61		37.62	0.000341	0.47	5.89	6.04	0.15
01	4771	Max WS	Tr30_4h	1.92	36.05	37.65		37.66	0.000143	0.31	6.13	6.15	0.10
01	4771	Max WS	Tr30_7h	2.37	36.05	37.66		37.66	0.000215	0.38	6.17	6.16	0.12
01	4771	Max WS	Tr30_12h	2.82	36.05	37.63		37.64	0.000337	0.47	5.97	6.07	0.15

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4721	Max WS	Tr30_2h	4.51	36.03	37.53		37.57	0.001225	0.85	5.53	7.70	0.29
01	4721	Max WS	Tr30_4h	4.98	36.03	37.56		37.60	0.001341	0.91	5.75	7.75	0.31
01	4721	Max WS	Tr30_7h	5.06	36.03	37.56		37.60	0.001359	0.92	5.78	7.76	0.31
01	4721	Max WS	Tr30_12h	4.67	36.03	37.54		37.58	0.001264	0.87	5.61	7.71	0.30
01	4671	Max WS	Tr30_2h	4.41	35.79	37.47		37.51	0.001134	0.86	5.61	9.24	0.28
01	4671	Max WS	Tr30_4h	4.85	35.79	37.49		37.54	0.001258	0.92	5.82	9.42	0.29
01	4671	Max WS	Tr30_7h	4.92	35.79	37.50		37.54	0.001276	0.93	5.85	9.45	0.29
01	4671	Max WS	Tr30_12h	4.56	35.79	37.48		37.52	0.001176	0.88	5.68	9.30	0.28
01	4621	Max WS	Tr30_2h	4.41	35.90	37.40		37.44	0.001468	0.89	4.98	6.70	0.31
01	4621	Max WS	Tr30_4h	4.85	35.90	37.41		37.46	0.001705	0.97	5.05	6.72	0.33
01	4621	Max WS	Tr30_7h	4.92	35.90	37.42		37.46	0.001743	0.98	5.07	6.72	0.33
01	4621	Max WS	Tr30_12h	4.55	35.90	37.41		37.45	0.001544	0.92	5.01	6.71	0.31
01	4571	Max WS	Tr30_2h	3.81	36.01	37.37		37.39	0.000899	0.73	5.42	8.79	0.25
01	4571	Max WS	Tr30_4h	4.10	36.01	37.38		37.41	0.001004	0.78	5.50	8.80	0.26
01	4571	Max WS	Tr30_7h	4.14	36.01	37.38		37.41	0.001020	0.79	5.51	8.81	0.27
01	4571	Max WS	Tr30_12h	3.91	36.01	37.37		37.40	0.000932	0.75	5.45	8.80	0.25
01	4521	Max WS	Tr30_2h	2.92	35.87	37.35		37.37	0.000560	0.57	5.15	5.67	0.19
01	4521	Max WS	Tr30_4h	3.04	35.87	37.36		37.38	0.000584	0.58	5.22	5.69	0.19
01	4521	Max WS	Tr30_7h	3.05	35.87	37.36		37.38	0.000587	0.58	5.23	5.69	0.19
01	4521	Max WS	Tr30_12h	2.95	35.87	37.36		37.37	0.000565	0.57	5.18	5.68	0.19
01	4471	Max WS	Tr30_2h	2.86	35.86	37.32		37.34	0.000608	0.55	5.19	6.67	0.20
01	4471	Max WS	Tr30_4h	2.95	35.86	37.33		37.35	0.000623	0.56	5.26	6.71	0.20
01	4471	Max WS	Tr30_7h	2.96	35.86	37.34		37.35	0.000625	0.56	5.27	6.72	0.20
01	4471	Max WS	Tr30_12h	2.89	35.86	37.33		37.34	0.000610	0.55	5.22	6.69	0.20
01	4446	Max WS	Tr30_2h	2.86	35.76	37.31	36.45	37.33	0.000491	0.53	5.44	6.33	0.18
01	4446	Max WS	Tr30_4h	2.95	35.76	37.32	36.46	37.34	0.000505	0.54	5.51	6.37	0.18
01	4446	Max WS	Tr30_7h	2.96	35.76	37.32	36.47	37.34	0.000507	0.54	5.52	6.37	0.18
01	4446	Max WS	Tr30_12h	2.89	35.76	37.32	36.46	37.33	0.000493	0.53	5.47	6.35	0.18
01	4435			Bridge									
01	4421	Max WS	Tr30_2h	2.86	35.76	37.28		37.30	0.000539	0.54	5.26	6.23	0.19
01	4421	Max WS	Tr30_4h	2.95	35.76	37.29		37.31	0.000558	0.56	5.31	6.26	0.19
01	4421	Max WS	Tr30_7h	2.96	35.76	37.29		37.31	0.000560	0.56	5.32	6.27	0.19
01	4421	Max WS	Tr30_12h	2.89	35.76	37.29		37.30	0.000542	0.55	5.28	6.25	0.19
01	4420			Lat Struct									
01	4419			Lat Struct									
01	4371	Max WS	Tr30_2h	2.86	35.89	37.26		37.27	0.000442	0.52	5.56	6.20	0.17
01	4371	Max WS	Tr30_4h	2.95	35.89	37.27		37.28	0.000459	0.53	5.60	6.22	0.18
01	4371	Max WS	Tr30_7h	2.96	35.89	37.27		37.28	0.000461	0.53	5.61	6.22	0.18
01	4371	Max WS	Tr30_12h	2.89	35.89	37.26		37.28	0.000444	0.52	5.58	6.21	0.17
01	4321	Max WS	Tr30_2h	2.86	35.92	37.24		37.25	0.000467	0.51	5.61	6.91	0.18
01	4321	Max WS	Tr30_4h	2.95	35.92	37.24		37.26	0.000484	0.52	5.66	6.94	0.18
01	4321	Max WS	Tr30_7h	2.96	35.92	37.24		37.26	0.000486	0.52	5.67	6.95	0.18
01	4321	Max WS	Tr30_12h	2.89	35.92	37.24		37.25	0.000469	0.51	5.63	6.93	0.18
01	4271	Max WS	Tr30_2h	2.86	35.85	37.21		37.22	0.000628	0.53	5.36	19.51	0.20
01	4271	Max WS	Tr30_4h	2.95	35.85	37.21		37.23	0.000660	0.55	5.40	19.64	0.21
01	4271	Max WS	Tr30_7h	2.96	35.85	37.21		37.23	0.000664	0.55	5.41	19.67	0.21
01	4271	Max WS	Tr30_12h	2.89	35.85	37.21		37.23	0.000634	0.54	5.39	19.59	0.20
01	4221	Max WS	Tr30_2h	2.86	35.73	37.18		37.20	0.000422	0.52	5.56	5.83	0.17
01	4221	Max WS	Tr30_4h	2.95	35.73	37.19		37.20	0.000444	0.53	5.58	5.84	0.17
01	4221	Max WS	Tr30_7h	2.96	35.73	37.19		37.20	0.000446	0.53	5.59	5.84	0.17
01	4221	Max WS	Tr30_12h	2.88	35.73	37.19		37.20	0.000425	0.52	5.57	5.84	0.17
01	4171	Max WS	Tr30_2h	2.75	35.96	37.16		37.17	0.000665	0.56	5.11	9.70	0.21
01	4171	Max WS	Tr30_4h	2.82	35.96	37.16		37.17	0.000692	0.57	5.14	9.70	0.21
01	4171	Max WS	Tr30_7h	2.83	35.96	37.16		37.18	0.000692	0.57	5.14	9.70	0.21
01	4171	Max WS	Tr30_12h	2.74	35.96	37.16		37.17	0.000651	0.56	5.14	9.70	0.21
01	4121	Max WS	Tr30_2h	2.46	35.92	37.12		37.14	0.000872	0.58	4.31	8.56	0.24
01	4121	Max WS	Tr30_4h	2.51	35.92	37.12		37.14	0.000893	0.59	4.33	8.60	0.24
01	4121	Max WS	Tr30_7h	2.43	35.92	37.12		37.14	0.000830	0.57	4.35	8.63	0.23
01	4121	Max WS	Tr30_12h	2.39	35.92	37.13		37.14	0.000790	0.56	4.38	8.66	0.23
01	4071	Max WS	Tr30_2h	2.37	35.81	37.08		37.09	0.000921	0.58	4.21	9.52	0.24
01	4071	Max WS	Tr30_4h	2.36	35.81	37.08		37.10	0.000892	0.57	4.24	9.59	0.24
01	4071	Max WS	Tr30_7h	2.24	35.81	37.09		37.10	0.000770	0.53	4.32	9.75	0.22
01	4071	Max WS	Tr30_12h	2.19	35.81	37.09		37.11	0.000703	0.51	4.38	9.88	0.21
01	4021	Max WS	Tr30_2h	2.29	35.76	37.04		37.05	0.000762	0.51	4.50	8.77	0.22
01	4021	Max WS	Tr30_4h	2.19	35.76	37.05		37.06	0.000676	0.49	4.55	8.87	0.21
01	4021	Max WS	Tr30_7h	2.01	35.76	37.06		37.07	0.000522	0.43	4.71	9.00	0.18
01	4021	Max WS	Tr30_12h	1.78	35.76	37.08		37.08	0.000378	0.37	4.84	9.00	0.15
01	3971	Max WS	Tr30_2h	1.99	35.89	37.01		37.02	0.000529	0.46	4.57	10.00	0.19
01	3971	Max WS	Tr30_4h	1.62	35.89	37.03		37.04	0.000318	0.36	4.75	10.00	0.14
01	3971	Max WS	Tr30_7h	1.02	35.89	37.06		37.06	0.000106	0.21	5.05	10.00	0.08
01	3971	Max WS	Tr30_12h	1.08	35.89	37.08		37.08	0.000110	0.22	5.20	10.00	0.09
01	3921	Max WS	Tr30_2h	1.70	35.75	36.99		37.00	0.000585	0.50	3.55	7.77	0.19
01	3921	Max WS	Tr30_4h	0.83	35.75	37.03		37.03	0.000111	0.22	3.89	8.65	0.08

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3921	Max WS	Tr30_7h	0.45	35.75	37.06		37.06	0.000027	0.12	4.20	9.00	0.04
01	3921	Max WS	Tr30_12h	0.37	35.75	37.08		37.08	0.000018	0.09	4.32	9.00	0.03
01	3881	Max WS	Tr30_2h	1.70	35.70	36.98	36.20	36.98	0.000192	0.32	5.34	6.79	0.11
01	3881	Max WS	Tr30_4h	0.79	35.70	37.03	36.07	37.03	0.000034	0.14	5.69	7.30	0.05
01	3881	Max WS	Tr30_7h	0.45	35.70	37.06	36.01	37.06	0.000010	0.08	5.95	7.65	0.03
01	3881	Max WS	Tr30_12h	0.42	35.70	37.08	36.00	37.08	0.000008	0.07	6.05	7.80	0.02
01	3876			Bridge									
01	3871	Max WS	Tr30_2h	1.70	35.70	36.97		36.98	0.000196	0.32	5.30	6.77	0.12
01	3871	Max WS	Tr30_4h	0.79	35.70	37.03		37.03	0.000034	0.14	5.68	7.28	0.05
01	3871	Max WS	Tr30_7h	0.45	35.70	37.06		37.06	0.000010	0.08	5.93	7.64	0.03
01	3871	Max WS	Tr30_12h	0.42	35.70	37.07		37.07	0.000008	0.07	6.04	7.77	0.02
01	3870			Lat Struct									
01	3869			Lat Struct									
01	3821	Max WS	Tr30_2h	1.67	35.84	36.95		36.96	0.000455	0.44	3.84	5.71	0.17
01	3821	Max WS	Tr30_4h	0.79	35.84	37.02		37.03	0.000079	0.18	4.26	6.24	0.07
01	3821	Max WS	Tr30_7h	0.43	35.84	37.06		37.06	0.000021	0.10	4.49	6.51	0.04
01	3821	Max WS	Tr30_12h	0.40	35.84	37.07		37.07	0.000017	0.09	4.58	6.61	0.03
01	3771	Max WS	Tr30_2h	1.66	35.62	36.93		36.94	0.000461	0.43	3.88	5.95	0.17
01	3771	Max WS	Tr30_4h	0.78	35.62	37.02		37.02	0.000072	0.18	4.44	6.37	0.07
01	3771	Max WS	Tr30_7h	0.43	35.62	37.06		37.06	0.000019	0.09	4.68	6.54	0.03
01	3771	Max WS	Tr30_12h	0.39	35.62	37.07		37.07	0.000015	0.08	4.77	6.66	0.03
01	3721	Max WS	Tr30_2h	1.62	35.71	36.90		36.91	0.000558	0.46	3.54	5.69	0.19
01	3721	Max WS	Tr30_4h	0.78	35.71	37.02		37.02	0.000078	0.19	4.25	7.96	0.07
01	3721	Max WS	Tr30_7h	0.43	35.71	37.06		37.06	0.000019	0.10	4.63	10.00	0.04
01	3721	Max WS	Tr30_12h	0.40	35.71	37.07		37.07	0.000016	0.09	4.77	10.00	0.03
01	3671	Max WS	Tr30_2h	1.62	35.34	36.88		36.89	0.000389	0.38	4.25	7.03	0.15
01	3671	Max WS	Tr30_4h	1.00	35.34	37.01		37.01	0.000081	0.19	5.41	10.00	0.07
01	3671	Max WS	Tr30_7h	0.68	35.34	37.05		37.06	0.000030	0.12	5.85	10.00	0.04
01	3671	Max WS	Tr30_12h	0.58	35.34	37.07		37.07	0.000020	0.10	5.99	10.00	0.04
01	3621	Max WS	Tr30_2h	1.60	35.66	36.86		36.87	0.000340	0.40	4.00	5.29	0.15
01	3621	Max WS	Tr30_4h	1.66	35.66	37.00		37.00	0.000288	0.35	4.79	7.93	0.14
01	3621	Max WS	Tr30_7h	1.88	35.66	37.04		37.04	0.000315	0.37	5.15	9.28	0.14
01	3621	Max WS	Tr30_12h	1.95	35.66	37.05		37.06	0.000324	0.38	5.27	9.36	0.14
01	3571	Max WS	Tr30_2h	1.60	35.67	36.85		36.86	0.000194	0.32	4.92	5.98	0.11
01	3571	Max WS	Tr30_4h	1.66	35.67	36.99		36.99	0.000139	0.29	5.77	6.52	0.10
01	3571	Max WS	Tr30_7h	1.90	35.67	37.02		37.03	0.000163	0.32	6.02	6.68	0.11
01	3571	Max WS	Tr30_12h	1.99	35.67	37.04		37.04	0.000174	0.33	6.10	6.72	0.11
01	3521	Max WS	Tr30_2h	1.57	35.81	36.83		36.84	0.000532	0.43	3.68	6.54	0.18
01	3521	Max WS	Tr30_4h	1.63	35.81	36.97		36.98	0.000315	0.35	4.74	8.37	0.14
01	3521	Max WS	Tr30_7h	1.88	35.81	37.01		37.02	0.000346	0.37	5.05	8.85	0.15
01	3521	Max WS	Tr30_12h	1.99	35.81	37.02		37.03	0.000366	0.39	5.15	8.86	0.15
01	3520			Lat Struct									
01	3519			Lat Struct									
01	3471	Max WS	Tr30_2h	1.52	35.63	36.81		36.82	0.000250	0.35	4.41	5.95	0.13
01	3471	Max WS	Tr30_4h	1.56	35.63	36.96		36.97	0.000161	0.29	5.36	6.73	0.10
01	3471	Max WS	Tr30_7h	1.69	35.63	37.00		37.01	0.000167	0.30	5.61	6.84	0.11
01	3471	Max WS	Tr30_12h	0.22	35.63	37.01		37.01	0.000003	0.04	5.70	6.87	0.01
01	3421	Max WS	Tr30_2h	1.38	35.64	36.80		36.81	0.000233	0.32	4.31	6.15	0.12
01	3421	Max WS	Tr30_4h	1.29	35.64	36.96		36.96	0.000152	0.24	5.54	10.34	0.10
01	3421	Max WS	Tr30_7h	1.10	35.64	37.00		37.00	0.000090	0.19	5.99	10.73	0.08
01	3421	Max WS	Tr30_12h	0.91	35.64	37.01		37.02	0.000058	0.15	6.14	10.86	0.06
01	3371	Max WS	Tr30_2h	1.01	35.55	36.79		36.79	0.000169	0.25	4.09	7.07	0.10
01	3371	Max WS	Tr30_4h	0.90	35.55	36.95		36.95	0.000068	0.16	5.67	11.00	0.07
01	3371	Max WS	Tr30_7h	0.99	35.55	37.00		37.00	0.000065	0.17	6.15	11.00	0.07
01	3371	Max WS	Tr30_12h	0.12	35.55	37.01		37.01	0.000001	0.02	6.34	11.00	0.01
01	3321	Max WS	Tr30_2h	0.78	35.55	36.78		36.79	0.000088	0.20	3.98	5.73	0.08
01	3321	Max WS	Tr30_4h	0.65	35.55	36.95		36.95	0.000038	0.13	5.09	7.48	0.05
01	3321	Max WS	Tr30_7h	0.77	35.55	36.99		37.00	0.000046	0.14	5.43	8.34	0.05
01	3321	Max WS	Tr30_12h	0.40	35.55	37.01		37.01	0.000011	0.07	5.59	8.92	0.03
01	3271	Max WS	Tr30_2h	0.71	35.54	36.78		36.78	0.000078	0.18	4.03	6.44	0.07
01	3271	Max WS	Tr30_4h	0.61	35.54	36.95		36.95	0.000034	0.12	5.27	8.48	0.05
01	3271	Max WS	Tr30_7h	0.65	35.54	36.99		36.99	0.000034	0.11	5.69	10.41	0.05
01	3271	Max WS	Tr30_12h	0.55	35.54	37.01		37.01	0.000023	0.09	5.88	10.51	0.04
01	3221	Max WS	Tr30_2h	0.67	35.52	36.78		36.78	0.000030	0.13	5.09	5.83	0.04
01	3221	Max WS	Tr30_4h	0.59	35.52	36.95		36.95	0.000015	0.10	6.14	6.46	0.03
01	3221	Max WS	Tr30_7h	0.63	35.52	36.99		36.99	0.000014	0.10	6.43	6.62	0.03
01	3221	Max WS	Tr30_12h	0.53	35.52	37.01		37.01	0.000010	0.08	6.55	6.69	0.03
01	3171	Max WS	Tr30_2h	0.64	35.51	36.78		36.78	0.000045	0.15	4.33	5.70	0.05
01	3171	Max WS	Tr30_4h	0.58	35.51	36.95		36.95	0.000022	0.11	5.48	8.87	0.04
01	3171	Max WS	Tr30_7h	0.61	35.51	36.99		36.99	0.000020	0.11	5.89	10.07	0.04
01	3171	Max WS	Tr30_12h	0.52	35.51	37.01		37.01	0.000014	0.09	6.09	10.89	0.03
01	3121	Max WS	Tr30_2h	0.60	35.78	36.77		36.77	0.000080	0.18	3.60	7.75	0.07

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3121	Max WS	Tr30_4h	0.55	35.78	36.95		36.95	0.000029	0.12	5.26	11.47	0.04
01	3121	Max WS	Tr30_7h	0.60	35.78	36.99		36.99	0.000028	0.12	5.81	13.26	0.04
01	3121	Max WS	Tr30_12h	0.51	35.78	37.01		37.01	0.000019	0.10	6.07	13.52	0.04
01	3071	Max WS	Tr30_2h	0.60	35.18	36.77	35.47	36.77	0.000007	0.07	9.15	10.56	0.02
01	3071	Max WS	Tr30_4h	0.55	35.18	36.95	35.46	36.95	0.000004	0.05	11.08	11.66	0.02
01	3071	Max WS	Tr30_7h	0.59	35.18	36.99	35.47	36.99	0.000004	0.05	11.60	12.00	0.02
01	3071	Max WS	Tr30_12h	0.51	35.18	37.01	35.45	37.01	0.000003	0.04	11.83	12.15	0.01
01	3061			Bridge									
01	3051	Max WS	Tr30_2h	0.60	35.18	36.77		36.77	0.000007	0.07	9.15	10.56	0.02
01	3051	Max WS	Tr30_4h	0.54	35.18	36.95		36.95	0.000003	0.05	11.08	11.66	0.02
01	3051	Max WS	Tr30_7h	0.59	35.18	36.99		36.99	0.000004	0.05	11.60	12.00	0.02
01	3051	Max WS	Tr30_12h	0.51	35.18	37.01		37.01	0.000003	0.04	11.83	12.15	0.01
01	3050			Lat Struct									
01	3049			Lat Struct									
01	3021	Max WS	Tr30_2h	0.60	35.05	36.77		36.77	0.000019	0.11	5.72	6.46	0.04
01	3021	Max WS	Tr30_4h	0.54	35.05	36.95		36.95	0.000009	0.08	6.90	6.92	0.03
01	3021	Max WS	Tr30_7h	0.58	35.05	36.99		36.99	0.000009	0.08	7.20	7.04	0.03
01	3021	Max WS	Tr30_12h	0.51	35.05	37.01		37.01	0.000007	0.07	7.34	7.29	0.02
01	2971	Max WS	Tr30_2h	0.60	35.26	36.77		36.77	0.000025	0.11	5.38	6.86	0.04
01	2971	Max WS	Tr30_4h	0.54	35.26	36.95		36.95	0.000011	0.08	6.66	7.76	0.03
01	2971	Max WS	Tr30_7h	0.57	35.26	36.99		36.99	0.000011	0.08	7.01	8.03	0.03
01	2971	Max WS	Tr30_12h	0.51	35.26	37.01		37.01	0.000009	0.07	7.17	8.15	0.02
01	2921	Max WS	Tr30_2h	0.60	35.55	36.77		36.77	0.000032	0.12	4.95	7.07	0.05
01	2921	Max WS	Tr30_4h	0.53	35.55	36.94		36.94	0.000013	0.08	6.26	7.74	0.03
01	2921	Max WS	Tr30_7h	0.56	35.55	36.99		36.99	0.000013	0.09	6.60	8.06	0.03
01	2921	Max WS	Tr30_12h	0.51	35.55	37.01		37.01	0.000010	0.08	6.76	8.20	0.03
01	2871	Max WS	Tr30_2h	0.60	34.76	36.77		36.77	0.000011	0.08	7.24	7.67	0.03
01	2871	Max WS	Tr30_4h	0.53	34.76	36.94		36.94	0.000005	0.06	8.67	8.38	0.02
01	2871	Max WS	Tr30_7h	0.56	34.76	36.99		36.99	0.000005	0.06	9.04	8.56	0.02
01	2871	Max WS	Tr30_12h	0.51	34.76	37.01		37.01	0.000004	0.06	9.21	8.64	0.02
01	2821	Max WS	Tr30_2h	0.60	35.15	36.77		36.77	0.000014	0.10	6.29	6.60	0.03
01	2821	Max WS	Tr30_4h	0.53	35.15	36.94		36.94	0.000007	0.07	7.53	7.47	0.02
01	2821	Max WS	Tr30_7h	0.55	35.15	36.99		36.99	0.000007	0.07	7.86	7.83	0.02
01	2821	Max WS	Tr30_12h	0.51	35.15	37.01		37.01	0.000006	0.06	8.02	7.99	0.02
01	2771	Max WS	Tr30_2h	0.60	35.23	36.77	35.54	36.77	0.000021	0.11	5.64	7.09	0.04
01	2771	Max WS	Tr30_4h	0.52	35.23	36.94	35.52	36.94	0.000011	0.07	7.08	9.12	0.03
01	2771	Max WS	Tr30_7h	0.55	35.23	36.99	35.53	36.99	0.000010	0.07	7.49	9.63	0.03
01	2771	Max WS	Tr30_12h	0.51	35.23	37.01	35.52	37.01	0.000008	0.07	7.68	10.00	0.02
01	2755			Bridge									
01	2751	Max WS	Tr30_2h	0.60	35.23	36.76		36.77	0.000021	0.11	5.64	7.09	0.04
01	2751	Max WS	Tr30_4h	0.52	35.23	36.94		36.94	0.000010	0.07	7.08	9.12	0.03
01	2751	Max WS	Tr30_7h	0.54	35.23	36.99		36.99	0.000010	0.07	7.49	9.61	0.03
01	2751	Max WS	Tr30_12h	0.51	35.23	37.01		37.01	0.000008	0.07	7.68	9.99	0.02
01	2750			Lat Struct									
01	2749			Lat Struct									
01	2721	Max WS	Tr30_2h	0.60	35.16	36.76		36.77	0.000008	0.08	7.74	7.69	0.02
01	2721	Max WS	Tr30_4h	0.52	35.16	36.94		36.94	0.000004	0.06	9.15	8.15	0.02
01	2721	Max WS	Tr30_7h	0.54	35.16	36.99		36.99	0.000004	0.06	9.51	8.27	0.02
01	2721	Max WS	Tr30_12h	0.51	35.16	37.01		37.01	0.000003	0.05	9.68	8.32	0.02
01	2671	Max WS	Tr30_2h	0.60	35.16	36.76		36.76	0.000008	0.08	7.46	6.68	0.02
01	2671	Max WS	Tr30_4h	0.52	35.16	36.94		36.94	0.000004	0.06	8.69	7.17	0.02
01	2671	Max WS	Tr30_7h	0.54	35.16	36.99		36.99	0.000004	0.06	9.01	7.29	0.02
01	2671	Max WS	Tr30_12h	0.51	35.16	37.01		37.01	0.000003	0.06	9.16	7.34	0.02
01	2661	Max WS	Tr30_2h	0.60	35.16	36.76	35.43	36.76	0.000008	0.08	7.46	6.68	0.02
01	2661	Max WS	Tr30_4h	0.52	35.16	36.94	35.42	36.94	0.000004	0.06	8.69	7.17	0.02
01	2661	Max WS	Tr30_7h	0.54	35.16	36.99	35.42	36.99	0.000004	0.06	9.01	7.29	0.02
01	2661	Max WS	Tr30_12h	0.51	35.16	37.01	35.41	37.01	0.000003	0.06	9.15	7.34	0.02
01	2640			Bridge									
01	2621	Max WS	Tr30_2h	0.60	34.88	36.76		36.76	0.000003	0.06	10.70	7.99	0.02
01	2621	Max WS	Tr30_4h	0.52	34.88	36.94		36.94	0.000002	0.04	12.15	8.33	0.01
01	2621	Max WS	Tr30_7h	0.53	34.88	36.99		36.99	0.000002	0.04	12.52	8.42	0.01
01	2621	Max WS	Tr30_12h	0.51	34.88	37.01		37.01	0.000001	0.04	12.69	8.45	0.01
01	2620			Lat Struct									
01	2619			Lat Struct									
01	2571	Max WS	Tr30_2h	0.59	35.10	36.76		36.76	0.000011	0.08	7.21	7.62	0.03
01	2571	Max WS	Tr30_4h	0.51	35.10	36.94		36.94	0.000005	0.06	8.62	8.16	0.02
01	2571	Max WS	Tr30_7h	0.53	35.10	36.99		36.99	0.000005	0.06	8.98	8.29	0.02
01	2571	Max WS	Tr30_12h	0.51	35.10	37.01		37.01	0.000004	0.06	9.14	8.34	0.02
01	2521	Max WS	Tr30_2h	0.59	35.09	36.76		36.76	0.000006	0.07	8.61	7.58	0.02
01	2521	Max WS	Tr30_4h	0.52	35.09	36.94		36.94	0.000003	0.05	10.00	8.08	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2521	Max WS	Tr30_7h	0.53	35.09	36.99		36.99	0.000003	0.05	10.36	8.21	0.01
01	2521	Max WS	Tr30_12h	0.51	35.09	37.01		37.01	0.000002	0.05	10.52	8.26	0.01
01	2471	Max WS	Tr30_2h	0.59	35.03	36.76		36.76	0.000007	0.07	8.17	7.69	0.02
01	2471	Max WS	Tr30_4h	0.52	35.03	36.94		36.94	0.000003	0.05	9.58	8.18	0.02
01	2471	Max WS	Tr30_7h	0.53	35.03	36.99		36.99	0.000003	0.05	9.95	8.32	0.02
01	2471	Max WS	Tr30_12h	0.51	35.03	37.01		37.01	0.000003	0.05	10.11	8.38	0.01
01	2421	Max WS	Tr30_2h	0.59	34.99	36.76		36.76	0.000007	0.07	7.99	7.24	0.02
01	2421	Max WS	Tr30_4h	0.52	34.99	36.94		36.94	0.000003	0.06	9.32	7.67	0.02
01	2421	Max WS	Tr30_7h	0.53	34.99	36.99		36.99	0.000003	0.05	9.66	7.78	0.02
01	2421	Max WS	Tr30_12h	0.50	34.99	37.01		37.01	0.000003	0.05	9.81	7.83	0.01
01	2371	Max WS	Tr30_2h	0.59	34.96	36.76		36.76	0.000004	0.06	9.42	7.57	0.02
01	2371	Max WS	Tr30_4h	0.51	34.96	36.94		36.94	0.000002	0.05	10.81	7.97	0.01
01	2371	Max WS	Tr30_7h	0.53	34.96	36.99		36.99	0.000002	0.05	11.16	8.08	0.01
01	2371	Max WS	Tr30_12h	0.51	34.96	37.01		37.01	0.000002	0.04	11.32	8.13	0.01
01	2321	Max WS	Tr30_2h	0.59	34.96	36.76	35.18	36.76	0.000006	0.07	8.36	7.18	0.02
01	2321	Max WS	Tr30_4h	0.51	34.96	36.94	35.17	36.94	0.000003	0.05	9.71	7.84	0.02
01	2321	Max WS	Tr30_7h	0.53	34.96	36.99	35.17	36.99	0.000003	0.05	10.06	7.96	0.01
01	2321	Max WS	Tr30_12h	0.51	34.96	37.01	35.16	37.01	0.000003	0.05	10.22	8.01	0.01
01	2316			Bridge									
01	2311	Max WS	Tr30_2h	0.59	34.96	36.76		36.76	0.000006	0.07	8.36	7.18	0.02
01	2311	Max WS	Tr30_4h	0.51	34.96	36.94		36.94	0.000003	0.05	9.71	7.84	0.02
01	2311	Max WS	Tr30_7h	0.53	34.96	36.99		36.99	0.000003	0.05	10.06	7.96	0.01
01	2311	Max WS	Tr30_12h	0.51	34.96	37.00		37.00	0.000003	0.05	10.21	8.01	0.01
01	2310			Lat Struct									
01	2309			Lat Struct									
01	2271	Max WS	Tr30_2h	0.59	34.91	36.76		36.76	0.000007	0.07	7.99	7.33	0.02
01	2271	Max WS	Tr30_4h	0.51	34.91	36.94		36.94	0.000004	0.05	9.36	7.96	0.02
01	2271	Max WS	Tr30_7h	0.52	34.91	36.99		36.99	0.000003	0.05	9.71	8.13	0.02
01	2271	Max WS	Tr30_12h	0.50	34.91	37.00		37.00	0.000003	0.05	9.87	8.21	0.01
01	2221	Max WS	Tr30_2h	0.58	35.02	36.76		36.76	0.000006	0.07	8.77	7.73	0.02
01	2221	Max WS	Tr30_4h	0.51	35.02	36.94		36.94	0.000003	0.05	10.20	8.23	0.01
01	2221	Max WS	Tr30_7h	0.52	35.02	36.99		36.99	0.000003	0.05	10.57	8.35	0.01
01	2221	Max WS	Tr30_12h	0.50	35.02	37.00		37.00	0.000002	0.05	10.73	8.40	0.01
01	2201	Max WS	Tr30_2h	0.58	35.07	36.76	35.30	36.76	0.000006	0.07	8.38	7.50	0.02
01	2201	Max WS	Tr30_4h	0.51	35.07	36.94	35.28	36.94	0.000003	0.05	9.77	7.98	0.02
01	2201	Max WS	Tr30_7h	0.52	35.07	36.99	35.28	36.99	0.000003	0.05	10.12	8.11	0.01
01	2201	Max WS	Tr30_12h	0.51	35.07	37.00	35.28	37.00	0.000003	0.05	10.28	8.16	0.01
01	2196			Bridge									
01	2191	Max WS	Tr30_2h	0.58	35.07	36.76		36.76	0.000006	0.07	8.38	7.50	0.02
01	2191	Max WS	Tr30_4h	0.51	35.07	36.94		36.94	0.000003	0.05	9.77	7.98	0.02
01	2191	Max WS	Tr30_7h	0.52	35.07	36.99		36.99	0.000003	0.05	10.12	8.11	0.01
01	2191	Max WS	Tr30_12h	0.50	35.07	37.00		37.00	0.000003	0.05	10.28	8.16	0.01
01	2190			Lat Struct									
01	2189			Lat Struct									
01	2171	Max WS	Tr30_2h	0.58	35.15	36.76		36.76	0.000007	0.08	7.77	7.14	0.02
01	2171	Max WS	Tr30_4h	0.51	35.15	36.94		36.94	0.000004	0.06	9.10	7.68	0.02
01	2171	Max WS	Tr30_7h	0.52	35.15	36.99		36.99	0.000003	0.06	9.44	7.81	0.02
01	2171	Max WS	Tr30_12h	0.50	35.15	37.00		37.00	0.000003	0.05	9.59	7.87	0.02
01	2169			Lat Struct									
01	2131	Max WS	Tr30_2h	0.58	35.00	36.76	35.55	36.76	0.000034	0.12	4.67	6.17	0.05
01	2131	Max WS	Tr30_4h	0.51	35.00	36.94	35.52	36.94	0.000014	0.09	5.85	6.88	0.03
01	2131	Max WS	Tr30_7h	0.52	35.00	36.98	35.52	36.98	0.000013	0.08	6.15	7.06	0.03
01	2131	Max WS	Tr30_12h	0.50	35.00	37.00	35.51	37.00	0.000011	0.08	6.29	7.13	0.03
01	2126			Bridge									
01	2121	Max WS	Tr30_2h	0.58	35.00	36.76		36.76	0.000034	0.12	4.67	6.17	0.05
01	2121	Max WS	Tr30_4h	0.50	35.00	36.94		36.94	0.000014	0.09	5.85	6.88	0.03
01	2121	Max WS	Tr30_7h	0.51	35.00	36.98		36.98	0.000013	0.08	6.15	7.06	0.03
01	2121	Max WS	Tr30_12h	0.50	35.00	37.00		37.00	0.000011	0.08	6.29	7.13	0.03
01	2120			Lat Struct									
01	2119			Lat Struct									
01	2071	Max WS	Tr30_2h	0.58	34.78	36.76		36.76	0.000003	0.05	10.65	8.62	0.02
01	2071	Max WS	Tr30_4h	0.50	34.78	36.94		36.94	0.000002	0.04	12.26	9.22	0.01
01	2071	Max WS	Tr30_7h	0.52	34.78	36.98		36.98	0.000002	0.04	12.67	9.36	0.01
01	2071	Max WS	Tr30_12h	0.50	34.78	37.00		37.00	0.000001	0.04	12.86	9.43	0.01
01	2021	Max WS	Tr30_2h	0.58	34.83	36.76		36.76	0.000003	0.05	11.11	9.14	0.02
01	2021	Max WS	Tr30_4h	0.50	34.83	36.94		36.94	0.000002	0.04	12.80	9.55	0.01
01	2021	Max WS	Tr30_7h	0.51	34.83	36.98		36.98	0.000001	0.04	13.22	9.65	0.01
01	2021	Max WS	Tr30_12h	0.50	34.83	37.00		37.00	0.000001	0.04	13.41	9.69	0.01
01	1971	Max WS	Tr30_2h	0.58	34.78	36.76		36.76	0.000002	0.04	13.59	12.38	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1971	Max WS	Tr30_4h	0.50	34.78	36.94		36.94	0.000001	0.03	15.88	12.91	0.01
01	1971	Max WS	Tr30_7h	0.51	34.78	36.98		36.98	0.000001	0.03	16.46	13.04	0.01
01	1971	Max WS	Tr30_12h	0.50	34.78	37.00		37.00	0.000001	0.03	16.71	13.09	0.01
01	1921	Max WS	Tr30_2h	0.57	34.72	36.76	34.95	36.76	0.000002	0.04	13.96	11.96	0.01
01	1921	Max WS	Tr30_4h	0.50	34.72	36.94	34.94	36.94	0.000001	0.03	16.16	12.43	0.01
01	1921	Max WS	Tr30_7h	0.51	34.72	36.98	34.94	36.98	0.000001	0.03	16.72	12.54	0.01
01	1921	Max WS	Tr30_12h	0.50	34.72	37.00	34.94	37.00	0.000001	0.03	16.96	12.59	0.01
01	1900			Bridge									
01	1871	Max WS	Tr30_2h	0.57	34.79	36.76		36.76	0.000003	0.05	10.58	8.33	0.02
01	1871	Max WS	Tr30_4h	0.50	34.79	36.94		36.94	0.000002	0.04	12.14	8.89	0.01
01	1871	Max WS	Tr30_7h	0.51	34.79	36.98		36.98	0.000002	0.04	12.54	9.07	0.01
01	1871	Max WS	Tr30_12h	0.50	34.79	37.00		37.00	0.000001	0.04	12.71	9.14	0.01
01	1870			Lat Struct									
01	1869			Lat Struct									
01	1821	Max WS	Tr30_2h	0.57	34.79	36.76		36.76	0.000003	0.05	10.91	9.20	0.02
01	1821	Max WS	Tr30_4h	0.50	34.79	36.94		36.94	0.000002	0.04	12.62	9.69	0.01
01	1821	Max WS	Tr30_7h	0.51	34.79	36.98		36.98	0.000002	0.04	13.05	9.84	0.01
01	1821	Max WS	Tr30_12h	0.50	34.79	37.00		37.00	0.000001	0.04	13.24	9.92	0.01
01	1771	Max WS	Tr30_2h	0.57	34.83	36.76		36.76	0.000003	0.05	10.47	8.33	0.02
01	1771	Max WS	Tr30_4h	0.50	34.83	36.94		36.94	0.000002	0.04	12.03	8.91	0.01
01	1771	Max WS	Tr30_7h	0.51	34.83	36.98		36.98	0.000002	0.04	12.43	9.10	0.01
01	1771	Max WS	Tr30_12h	0.50	34.83	37.00		37.00	0.000002	0.04	12.61	9.18	0.01
01	1721	Max WS	Tr30_2h	0.57	34.75	36.76		36.76	0.000003	0.05	10.84	8.73	0.01
01	1721	Max WS	Tr30_4h	0.50	34.75	36.94		36.94	0.000002	0.04	12.47	9.35	0.01
01	1721	Max WS	Tr30_7h	0.51	34.75	36.98		36.98	0.000002	0.04	12.89	9.54	0.01
01	1721	Max WS	Tr30_12h	0.50	34.75	37.00		37.00	0.000001	0.04	13.07	9.63	0.01
01	1671	Max WS	Tr30_2h	0.56	34.76	36.76	35.00	36.76	0.000003	0.05	10.72	8.42	0.01
01	1671	Max WS	Tr30_4h	0.50	34.76	36.94	34.99	36.94	0.000002	0.04	12.28	8.84	0.01
01	1671	Max WS	Tr30_7h	0.51	34.76	36.98	34.99	36.98	0.000002	0.04	12.68	8.94	0.01
01	1671	Max WS	Tr30_12h	0.50	34.76	37.00	34.99	37.00	0.000001	0.04	12.85	8.98	0.01
01	1666			Bridge									
01	1661	Max WS	Tr30_2h	0.56	34.76	36.76		36.76	0.000003	0.05	10.72	8.42	0.01
01	1661	Max WS	Tr30_4h	0.50	34.76	36.94		36.94	0.000002	0.04	12.28	8.84	0.01
01	1661	Max WS	Tr30_7h	0.51	34.76	36.98		36.98	0.000002	0.04	12.68	8.94	0.01
01	1661	Max WS	Tr30_12h	0.50	34.76	37.00		37.00	0.000001	0.04	12.85	8.98	0.01
01	1660			Lat Struct									
01	1659			Lat Struct									
01	1621	Max WS	Tr30_2h	0.56	34.74	36.76		36.76	0.000003	0.05	10.78	8.80	0.01
01	1621	Max WS	Tr30_4h	0.50	34.74	36.94		36.94	0.000002	0.04	12.44	9.44	0.01
01	1621	Max WS	Tr30_7h	0.51	34.74	36.98		36.98	0.000002	0.04	12.86	9.60	0.01
01	1621	Max WS	Tr30_12h	0.50	34.74	37.00		37.00	0.000001	0.04	13.05	9.67	0.01
01	1571	Max WS	Tr30_2h	0.56	34.74	36.76		36.76	0.000003	0.05	11.37	9.54	0.01
01	1571	Max WS	Tr30_4h	0.50	34.74	36.94		36.94	0.000002	0.04	13.19	10.65	0.01
01	1571	Max WS	Tr30_7h	0.51	34.74	36.98		36.98	0.000001	0.04	13.67	11.00	0.01
01	1571	Max WS	Tr30_12h	0.50	34.74	37.00		37.00	0.000001	0.04	13.88	11.16	0.01
01	1521	Max WS	Tr30_2h	0.56	34.78	36.76		36.76	0.000002	0.05	12.08	9.56	0.01
01	1521	Max WS	Tr30_4h	0.50	34.78	36.94		36.94	0.000001	0.04	13.86	10.02	0.01
01	1521	Max WS	Tr30_7h	0.51	34.78	36.98		36.98	0.000001	0.04	14.31	10.13	0.01
01	1521	Max WS	Tr30_12h	0.50	34.78	37.00		37.00	0.000001	0.03	14.50	10.18	0.01
01	1471	Max WS	Tr30_2h	0.55	34.76	36.76		36.76	0.000003	0.05	10.71	9.07	0.02
01	1471	Max WS	Tr30_4h	0.50	34.76	36.94		36.94	0.000002	0.04	12.41	9.67	0.01
01	1471	Max WS	Tr30_7h	0.51	34.76	36.98		36.98	0.000002	0.04	12.84	9.82	0.01
01	1471	Max WS	Tr30_12h	0.50	34.76	37.00		37.00	0.000001	0.04	13.03	9.89	0.01
01	1421	Max WS	Tr30_2h	0.55	34.76	36.76	34.97	36.76	0.000003	0.05	10.27	8.44	0.02
01	1421	Max WS	Tr30_4h	0.50	34.76	36.94	34.96	36.94	0.000002	0.04	11.85	8.89	0.01
01	1421	Max WS	Tr30_7h	0.51	34.76	36.98	34.96	36.98	0.000002	0.04	12.25	9.00	0.01
01	1421	Max WS	Tr30_12h	0.50	34.76	37.00	34.96	37.00	0.000002	0.04	12.42	9.05	0.01
01	1416			Bridge									
01	1411	Max WS	Tr30_2h	0.55	34.76	36.76		36.76	0.000003	0.05	10.27	8.44	0.02
01	1411	Max WS	Tr30_4h	0.50	34.76	36.94		36.94	0.000002	0.04	11.85	8.89	0.01
01	1411	Max WS	Tr30_7h	0.51	34.76	36.98		36.98	0.000002	0.04	12.25	9.00	0.01
01	1411	Max WS	Tr30_12h	0.50	34.76	37.00		37.00	0.000002	0.04	12.42	9.05	0.01
01	1410			Lat Struct									
01	1409			Lat Struct									
01	1371	Max WS	Tr30_2h	0.55	34.72	36.76		36.76	0.000002	0.05	11.55	8.72	0.01
01	1371	Max WS	Tr30_4h	0.50	34.72	36.94		36.94	0.000001	0.04	13.21	9.73	0.01
01	1371	Max WS	Tr30_7h	0.50	34.72	36.98		36.98	0.000001	0.04	13.65	10.10	0.01
01	1371	Max WS	Tr30_12h	0.50	34.72	37.00		37.00	0.000001	0.04	13.84	10.25	0.01
01	1321	Max WS	Tr30_2h	0.55	34.66	36.76		36.76	0.000002	0.04	13.11	9.94	0.01
01	1321	Max WS	Tr30_4h	0.50	34.66	36.94		36.94	0.000001	0.03	14.97	10.49	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1321	Max WS	Tr30_7h	0.51	34.66	36.98		36.98	0.000001	0.03	15.44	10.66	0.01
01	1321	Max WS	Tr30_12h	0.50	34.66	37.00		37.00	0.000001	0.03	15.64	10.74	0.01
01	1320			Lat Struct									
01	1271	Max WS	Tr30_2h	0.54	34.62	36.76		36.76	0.000002	0.04	12.32	9.59	0.01
01	1271	Max WS	Tr30_4h	0.50	34.62	36.94		36.94	0.000001	0.04	14.17	10.60	0.01
01	1271	Max WS	Tr30_7h	0.51	34.62	36.98		36.98	0.000001	0.03	14.64	10.75	0.01
01	1271	Max WS	Tr30_12h	0.50	34.62	37.00		37.00	0.000001	0.03	14.85	10.81	0.01
01	1221	Max WS	Tr30_2h	0.54	34.67	36.76		36.76	0.000002	0.04	12.91	10.14	0.01
01	1221	Max WS	Tr30_4h	0.50	34.67	36.94		36.94	0.000001	0.03	14.80	10.69	0.01
01	1221	Max WS	Tr30_7h	0.51	34.67	36.98		36.98	0.000001	0.03	15.28	10.84	0.01
01	1221	Max WS	Tr30_12h	0.50	34.67	37.00		37.00	0.000001	0.03	15.49	10.91	0.01
01	1171	Max WS	Tr30_2h	0.54	34.66	36.76		36.76	0.000002	0.04	12.57	9.78	0.01
01	1171	Max WS	Tr30_4h	0.50	34.66	36.94		36.94	0.000001	0.03	14.41	10.45	0.01
01	1171	Max WS	Tr30_7h	0.51	34.66	36.98		36.98	0.000001	0.03	14.88	10.61	0.01
01	1171	Max WS	Tr30_12h	0.50	34.66	37.00		37.00	0.000001	0.03	15.08	10.68	0.01
01	1121	Max WS	Tr30_2h	0.53	34.57	36.76	34.78	36.76	0.000002	0.04	12.76	8.68	0.01
01	1121	Max WS	Tr30_4h	0.50	34.57	36.94	34.77	36.94	0.000001	0.03	14.39	9.25	0.01
01	1121	Max WS	Tr30_7h	0.50	34.57	36.98	34.77	36.98	0.000001	0.03	14.81	9.39	0.01
01	1121	Max WS	Tr30_12h	0.50	34.57	37.00	34.77	37.00	0.000001	0.03	14.99	9.45	0.01
01	1115			Bridge									
01	1096	Max WS	Tr30_2h	0.53	34.57	36.76		36.76	0.000002	0.04	12.76	8.68	0.01
01	1096	Max WS	Tr30_4h	0.50	34.57	36.94		36.94	0.000001	0.03	14.39	9.25	0.01
01	1096	Max WS	Tr30_7h	0.50	34.57	36.98		36.98	0.000001	0.03	14.81	9.39	0.01
01	1096	Max WS	Tr30_12h	0.50	34.57	37.00		37.00	0.000001	0.03	14.99	9.45	0.01
01	1094			Lat Struct									
01	1093			Lat Struct									
01	1071	Max WS	Tr30_2h	0.53	34.58	36.76		36.76	0.000002	0.05	11.61	9.54	0.01
01	1071	Max WS	Tr30_4h	0.50	34.58	36.94		36.94	0.000001	0.04	13.44	10.45	0.01
01	1071	Max WS	Tr30_7h	0.50	34.58	36.98		36.98	0.000001	0.04	13.91	10.68	0.01
01	1071	Max WS	Tr30_12h	0.50	34.58	37.00		37.00	0.000001	0.04	14.11	10.77	0.01
01	1021	Max WS	Tr30_2h	0.53	34.59	36.76		36.76	0.000002	0.05	11.37	9.48	0.01
01	1021	Max WS	Tr30_4h	0.50	34.59	36.94		36.94	0.000001	0.04	13.18	10.28	0.01
01	1021	Max WS	Tr30_7h	0.50	34.59	36.98		36.98	0.000001	0.04	13.64	10.42	0.01
01	1021	Max WS	Tr30_12h	0.50	34.59	37.00		37.00	0.000001	0.04	13.84	10.48	0.01
01	971	Max WS	Tr30_2h	0.53	34.60	36.76		36.76	0.000003	0.05	11.29	9.90	0.01
01	971	Max WS	Tr30_4h	0.50	34.60	36.94		36.94	0.000002	0.04	13.15	10.44	0.01
01	971	Max WS	Tr30_7h	0.50	34.60	36.98		36.98	0.000001	0.04	13.62	10.56	0.01
01	971	Max WS	Tr30_12h	0.50	34.60	37.00		37.00	0.000001	0.04	13.82	10.61	0.01
01	921	Max WS	Tr30_2h	0.52	34.45	36.76		36.76	0.000002	0.05	11.18	8.57	0.01
01	921	Max WS	Tr30_4h	0.50	34.45	36.94		36.94	0.000002	0.04	12.87	9.92	0.01
01	921	Max WS	Tr30_7h	0.50	34.45	36.98		36.98	0.000001	0.04	13.32	10.20	0.01
01	921	Max WS	Tr30_12h	0.50	34.45	37.00		37.00	0.000001	0.04	13.51	10.27	0.01
01	871	Max WS	Tr30_2h	0.52	34.57	36.76		36.76	0.000002	0.04	11.85	8.94	0.01
01	871	Max WS	Tr30_4h	0.50	34.57	36.94		36.94	0.000001	0.04	13.54	9.57	0.01
01	871	Max WS	Tr30_7h	0.50	34.57	36.98		36.98	0.000001	0.04	13.97	9.72	0.01
01	871	Max WS	Tr30_12h	0.50	34.57	37.00		37.00	0.000001	0.04	14.16	9.78	0.01
01	856	Max WS	Tr30_2h	0.52	34.57	36.76	34.85	36.76	0.000002	0.04	11.85	8.94	0.01
01	856	Max WS	Tr30_4h	0.50	34.57	36.94	34.84	36.94	0.000001	0.04	13.54	9.57	0.01
01	856	Max WS	Tr30_7h	0.50	34.57	36.98	34.84	36.98	0.000001	0.04	13.97	9.72	0.01
01	856	Max WS	Tr30_12h	0.50	34.57	37.00	34.84	37.00	0.000001	0.04	14.16	9.78	0.01
01	830			Bridge									
01	806	Max WS	Tr30_2h	0.52	34.57	36.75		36.75	0.000002	0.04	11.84	8.94	0.01
01	806	Max WS	Tr30_4h	0.50	34.57	36.94		36.94	0.000001	0.04	13.53	9.56	0.01
01	806	Max WS	Tr30_7h	0.50	34.57	36.98		36.98	0.000001	0.04	13.96	9.71	0.01
01	806	Max WS	Tr30_12h	0.50	34.57	37.00		37.00	0.000001	0.04	14.14	9.78	0.01
01	805			Lat Struct									
01	804			Lat Struct									
01	771	Max WS	Tr30_2h	0.52	34.33	36.75		36.75	0.000001	0.04	13.29	9.43	0.01
01	771	Max WS	Tr30_4h	0.50	34.33	36.94		36.94	0.000001	0.03	15.05	9.83	0.01
01	771	Max WS	Tr30_7h	0.50	34.33	36.98		36.98	0.000001	0.03	15.49	9.93	0.01
01	771	Max WS	Tr30_12h	0.50	34.33	37.00		37.00	0.000001	0.03	15.68	9.97	0.01
01	721	Max WS	Tr30_2h	0.52	34.31	36.75	34.64	36.75	0.000002	0.04	12.57	8.41	0.01
01	721	Max WS	Tr30_4h	0.50	34.31	36.94	34.63	36.94	0.000001	0.04	14.16	8.96	0.01
01	721	Max WS	Tr30_7h	0.50	34.31	36.98	34.64	36.98	0.000001	0.03	14.56	9.10	0.01
01	721	Max WS	Tr30_12h	0.50	34.31	37.00	34.64	37.00	0.000001	0.03	14.74	9.16	0.01
01	690			Bridge									
01	681	Max WS	Tr30_2h	0.52	34.31	36.75		36.75	0.000002	0.04	12.57	8.41	0.01
01	681	Max WS	Tr30_4h	0.50	34.31	36.94		36.94	0.000001	0.04	14.16	8.96	0.01
01	681	Max WS	Tr30_7h	0.50	34.31	36.98		36.98	0.000001	0.03	14.56	9.10	0.01
01	681	Max WS	Tr30_12h	0.50	34.31	37.00		37.00	0.000001	0.03	14.74	9.16	0.01

HEC-RAS River: Colechio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	680			Lat Struct									
01	679			Lat Struct									
01	671	Max WS	Tr30_2h	0.51	34.38	36.75		36.75	0.000002	0.04	12.92	9.41	0.01
01	671	Max WS	Tr30_4h	0.50	34.38	36.94		36.94	0.000001	0.03	14.68	9.86	0.01
01	671	Max WS	Tr30_7h	0.50	34.38	36.98		36.98	0.000001	0.03	15.12	9.98	0.01
01	671	Max WS	Tr30_12h	0.50	34.38	37.00		37.00	0.000001	0.03	15.32	10.03	0.01
01	621	Max WS	Tr30_2h	0.51	34.37	36.75		36.75	0.000001	0.04	13.14	9.76	0.01
01	621	Max WS	Tr30_4h	0.50	34.37	36.94		36.94	0.000001	0.03	14.98	10.37	0.01
01	621	Max WS	Tr30_7h	0.50	34.37	36.98		36.98	0.000001	0.03	15.45	10.53	0.01
01	621	Max WS	Tr30_12h	0.50	34.37	37.00		37.00	0.000001	0.03	15.65	10.59	0.01
01	571	Max WS	Tr30_2h	0.51	34.16	36.75	34.54	36.75	0.000002	0.04	12.31	8.07	0.01
01	571	Max WS	Tr30_4h	0.50	34.16	36.94	34.54	36.94	0.000001	0.04	13.84	8.61	0.01
01	571	Max WS	Tr30_7h	0.50	34.16	36.98	34.54	36.98	0.000001	0.04	14.22	8.74	0.01
01	571	Max WS	Tr30_12h	0.50	34.16	37.00	34.54	37.00	0.000001	0.03	14.39	8.80	0.01
01	566			Bridge									
01	561	Max WS	Tr30_2h	0.51	34.16	36.75		36.75	0.000002	0.04	12.31	8.07	0.01
01	561	Max WS	Tr30_4h	0.50	34.16	36.94		36.94	0.000001	0.04	13.84	8.61	0.01
01	561	Max WS	Tr30_7h	0.50	34.16	36.98		36.98	0.000001	0.04	14.22	8.74	0.01
01	561	Max WS	Tr30_12h	0.50	34.16	37.00		37.00	0.000001	0.03	14.39	8.80	0.01
01	560			Lat Struct									
01	559			Lat Struct									
01	521	Max WS	Tr30_2h	0.51	34.08	36.75		36.75	0.000001	0.03	14.59	9.30	0.01
01	521	Max WS	Tr30_4h	0.50	34.08	36.94		36.94	0.000001	0.03	16.36	10.01	0.01
01	521	Max WS	Tr30_7h	0.50	34.08	36.98		36.98	0.000001	0.03	16.81	10.17	0.01
01	521	Max WS	Tr30_12h	0.50	34.08	37.00		37.00	0.000001	0.03	17.01	10.24	0.01
01	471	Max WS	Tr30_2h	0.50	34.06	36.75		36.75	0.000001	0.03	14.64	9.44	0.01
01	471	Max WS	Tr30_4h	0.50	34.06	36.94		36.94	0.000001	0.03	16.43	10.21	0.01
01	471	Max WS	Tr30_7h	0.50	34.06	36.98		36.98	0.000001	0.03	16.89	10.41	0.01
01	471	Max WS	Tr30_12h	0.50	34.06	37.00		37.00	0.000001	0.03	17.09	10.50	0.01
01	421	Max WS	Tr30_2h	0.50	34.23	36.75		36.75	0.000001	0.03	14.48	9.86	0.01
01	421	Max WS	Tr30_4h	0.50	34.23	36.94		36.94	0.000001	0.03	16.33	10.39	0.01
01	421	Max WS	Tr30_7h	0.50	34.23	36.98		36.98	0.000001	0.03	16.80	10.53	0.01
01	421	Max WS	Tr30_12h	0.50	34.23	37.00		37.00	0.000001	0.03	17.00	10.59	0.01
01	371	Max WS	Tr30_2h	0.50	34.07	36.75		36.75	0.000001	0.03	15.36	10.34	0.01
01	371	Max WS	Tr30_4h	0.50	34.07	36.94		36.94	0.000001	0.03	17.32	11.00	0.01
01	371	Max WS	Tr30_7h	0.50	34.07	36.98		36.98	0.000001	0.03	17.81	11.14	0.01
01	371	Max WS	Tr30_12h	0.50	34.07	37.00		37.00	0.000001	0.03	18.03	11.20	0.01
01	321	Max WS	Tr30_2h	0.49	33.98	36.75		36.75	0.000001	0.03	15.33	9.88	0.01
01	321	Max WS	Tr30_4h	0.50	33.98	36.94		36.94	0.000001	0.03	17.19	10.40	0.01
01	321	Max WS	Tr30_7h	0.50	33.98	36.98		36.98	0.000001	0.03	17.65	10.52	0.01
01	321	Max WS	Tr30_12h	0.50	33.98	37.00		37.00	0.000001	0.03	17.86	10.58	0.01
01	271	Max WS	Tr30_2h	0.49	33.94	36.75		36.75	0.000001	0.03	14.42	10.27	0.01
01	271	Max WS	Tr30_4h	0.50	33.94	36.94		36.94	0.000001	0.03	16.38	11.20	0.01
01	271	Max WS	Tr30_7h	0.50	33.94	36.98		36.98	0.000001	0.03	16.89	11.34	0.01
01	271	Max WS	Tr30_12h	0.50	33.94	37.00		37.00	0.000001	0.03	17.11	11.39	0.01
01	221	Max WS	Tr30_2h	0.49	34.00	36.75		36.75	0.000001	0.03	15.71	10.52	0.01
01	221	Max WS	Tr30_4h	0.50	34.00	36.94		36.94	0.000001	0.03	17.69	11.04	0.01
01	221	Max WS	Tr30_7h	0.50	34.00	36.98		36.98	0.000001	0.03	18.18	11.15	0.01
01	221	Max WS	Tr30_12h	0.50	34.00	37.00		37.00	0.000001	0.03	18.40	11.20	0.01
01	171	Max WS	Tr30_2h	0.48	34.10	36.75		36.75	0.000001	0.03	14.48	9.97	0.01
01	171	Max WS	Tr30_4h	0.50	34.10	36.94		36.94	0.000001	0.03	16.34	10.41	0.01
01	171	Max WS	Tr30_7h	0.50	34.10	36.98		36.98	0.000001	0.03	16.81	11.52	0.01
01	171	Max WS	Tr30_12h	0.50	34.10	37.00		37.00	0.000001	0.03	17.03	11.57	0.01
01	121	Max WS	Tr30_2h	0.48	33.92	36.75		36.75	0.000001	0.03	13.80	9.64	0.01
01	121	Max WS	Tr30_4h	0.50	33.92	36.94		36.94	0.000001	0.03	15.61	10.15	0.01
01	121	Max WS	Tr30_7h	0.50	33.92	36.98		36.98	0.000001	0.03	16.06	10.27	0.01
01	121	Max WS	Tr30_12h	0.50	33.92	37.00		37.00	0.000001	0.03	16.26	10.33	0.01
01	71	Max WS	Tr30_2h	0.48	33.83	36.75	34.01	36.75	0.000000	0.03	18.65	8.78	0.01
01	71	Max WS	Tr30_4h	0.50	33.83	36.94	34.02	36.94	0.000000	0.02	20.29	9.25	0.01
01	71	Max WS	Tr30_7h	0.50	33.83	36.98	34.02	36.98	0.000000	0.02	20.72	10.38	0.01
01	71	Max WS	Tr30_12h	0.50	33.83	37.00	34.02	37.00	0.000000	0.02	20.92	10.44	0.01
01	69			Int Struct									
01	66	Max WS	Tr30_2h	0.48	33.00	33.60		33.61	0.001058	0.47	1.02	2.43	0.23
01	66	Max WS	Tr30_4h	0.50	33.00	33.61		33.62	0.001053	0.47	1.05	2.46	0.23
01	66	Max WS	Tr30_7h	0.50	33.00	33.61		33.62	0.001050	0.47	1.06	2.46	0.23
01	66	Max WS	Tr30_12h	0.50	33.00	33.61		33.62	0.001050	0.47	1.06	2.47	0.23
01	21	Max WS	Tr30_2h	0.48	32.86	33.55	33.17	33.56	0.001005	0.47	1.02	2.20	0.22
01	21	Max WS	Tr30_4h	0.50	32.86	33.56	33.18	33.57	0.001007	0.47	1.05	2.23	0.22
01	21	Max WS	Tr30_7h	0.50	32.86	33.57	33.18	33.58	0.001006	0.47	1.06	2.23	0.22
01	21	Max WS	Tr30_12h	0.50	32.86	33.57	33.18	33.58	0.001007	0.47	1.06	2.23	0.22

HEC-RAS River: Colecchio Reach: 01 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	7371	Max WS	Tr100_2h	4.56	39.96	41.23		41.28	0.001615	1.02	5.44	9.00	0.34
01	7371	Max WS	Tr100_4h	5.93	39.96	41.34		41.39	0.001755	1.14	6.37	9.00	0.36
01	7371	Max WS	Tr100_7h	4.78	39.96	41.25		41.30	0.001629	1.04	5.61	9.00	0.34
01	7371	Max WS	Tr100_12h	3.47	39.96	41.11		41.15	0.001711	0.96	4.35	9.00	0.34
01	7321	Max WS	Tr100_2h	4.56	39.81	40.76		40.95	0.014326	1.93	2.36	4.94	0.89
01	7321	Max WS	Tr100_4h	5.92	39.81	40.83		41.07	0.015494	2.16	2.73	5.00	0.93
01	7321	Max WS	Tr100_7h	4.78	39.81	40.77		40.97	0.014618	1.97	2.42	4.99	0.90
01	7321	Max WS	Tr100_12h	3.47	39.81	40.69		40.84	0.011913	1.68	2.07	4.70	0.81
01	7320			Lat Struct									
01	7319			Lat Struct									
01	7271	Max WS	Tr100_2h	2.12	39.62	40.45		40.52	0.006573	1.19	1.86	5.29	0.60
01	7271	Max WS	Tr100_4h	2.39	39.62	40.46		40.55	0.007707	1.31	1.92	5.31	0.65
01	7271	Max WS	Tr100_7h	2.19	39.62	40.45		40.53	0.006915	1.22	1.87	5.29	0.62
01	7271	Max WS	Tr100_12h	1.85	39.62	40.44		40.50	0.005584	1.08	1.80	5.27	0.55
01	7221	Max WS	Tr100_2h	0.88	39.75	40.32		40.34	0.003372	0.71	1.46	7.73	0.42
01	7221	Max WS	Tr100_4h	0.92	39.75	40.33		40.35	0.003140	0.70	1.55	7.76	0.41
01	7221	Max WS	Tr100_7h	0.89	39.75	40.32		40.35	0.003364	0.71	1.48	7.74	0.42
01	7221	Max WS	Tr100_12h	0.82	39.75	40.31		40.33	0.003557	0.71	1.36	7.70	0.43
01	7171	Max WS	Tr100_2h	0.82	39.37	40.22		40.23	0.001225	0.50	1.79	7.25	0.25
01	7171	Max WS	Tr100_4h	0.75	39.37	40.25		40.26	0.000800	0.42	2.03	7.83	0.21
01	7171	Max WS	Tr100_7h	0.82	39.37	40.23		40.24	0.001186	0.50	1.82	7.36	0.25
01	7171	Max WS	Tr100_12h	0.80	39.37	40.19		40.21	0.001454	0.54	1.60	6.60	0.28
01	7121	Max WS	Tr100_2h	0.82	39.39	40.14		40.16	0.001770	0.57	1.42	4.00	0.31
01	7121	Max WS	Tr100_4h	0.75	39.39	40.21		40.22	0.000943	0.44	1.72	5.42	0.23
01	7121	Max WS	Tr100_7h	0.82	39.39	40.15		40.17	0.001669	0.56	1.46	4.10	0.30
01	7121	Max WS	Tr100_12h	0.80	39.39	40.09		40.11	0.002496	0.66	1.22	3.58	0.36
01	7071	Max WS	Tr100_2h	0.81	39.26	40.09		40.10	0.000832	0.43	1.95	7.38	0.22
01	7071	Max WS	Tr100_4h	0.64	39.26	40.19		40.19	0.000212	0.25	3.29	19.00	0.11
01	7071	Max WS	Tr100_7h	0.81	39.26	40.10		40.11	0.000738	0.41	2.07	8.12	0.20
01	7071	Max WS	Tr100_12h	0.80	39.26	40.00		40.01	0.001447	0.53	1.51	4.08	0.28
01	7021	Max WS	Tr100_2h	0.53	39.43	40.07		40.08	0.000130	0.19	3.29	10.96	0.09
01	7021	Max WS	Tr100_4h	0.70	39.43	40.19		40.19	0.000101	0.18	4.56	11.52	0.08
01	7021	Max WS	Tr100_7h	0.44	39.43	40.09		40.10	0.000077	0.15	3.51	10.99	0.07
01	7021	Max WS	Tr100_12h	0.80	39.43	39.94		39.95	0.001122	0.47	1.86	8.47	0.25
01	6971	Max WS	Tr100_2h	0.47	39.04	40.07		40.07	0.000070	0.17	2.95	5.00	0.07
01	6971	Max WS	Tr100_4h	0.36	39.04	40.18		40.18	0.000024	0.11	3.50	5.00	0.04
01	6971	Max WS	Tr100_7h	0.45	39.04	40.09		40.09	0.000059	0.16	3.05	5.00	0.06
01	6971	Max WS	Tr100_12h	0.57	39.04	39.92		39.92	0.000253	0.27	2.17	5.00	0.12
01	6921	Max WS	Tr100_2h	0.45	38.90	40.07		40.07	0.000019	0.09	5.99	14.00	0.04
01	6921	Max WS	Tr100_4h	0.83	38.90	40.18		40.18	0.000034	0.13	7.55	14.00	0.05
01	6921	Max WS	Tr100_7h	0.47	38.90	40.09		40.09	0.000018	0.09	6.27	14.00	0.03
01	6921	Max WS	Tr100_12h	0.07	38.90	39.91		39.91	0.000001	0.02	3.85	13.75	0.01
01	6880			Lat Struct									
01	6879			Lat Struct									
01	6871	Max WS	Tr100_2h	0.24	39.12	40.07		40.07	0.000024	0.09	2.94	8.96	0.04
01	6871	Max WS	Tr100_4h	0.61	39.12	40.18		40.18	0.000075	0.17	3.95	9.00	0.07
01	6871	Max WS	Tr100_7h	0.28	39.12	40.09		40.09	0.000028	0.10	3.12	9.00	0.04
01	6871	Max WS	Tr100_12h	0.06	39.12	39.91		39.91	0.000004	0.03	1.95	4.39	0.02
01	6821	Max WS	Tr100_2h	0.16	39.03	40.07		40.07	0.000009	0.05	3.08	7.00	0.02
01	6821	Max WS	Tr100_4h	0.16	39.03	40.18		40.18	0.000005	0.05	3.86	7.00	0.02
01	6821	Max WS	Tr100_7h	0.20	39.03	40.09		40.09	0.000013	0.07	3.22	7.00	0.03
01	6821	Max WS	Tr100_12h	0.06	39.03	39.91		39.91	0.000004	0.03	2.10	4.76	0.01
01	6820			Lat Struct									
01	6819			Lat Struct									
01	6771	Max WS	Tr100_2h	0.08	38.78	40.07		40.07	0.000001	0.02	5.24	14.00	0.01
01	6771	Max WS	Tr100_4h	0.51	38.78	40.18		40.18	0.000016	0.10	6.81	14.00	0.03
01	6771	Max WS	Tr100_7h	0.14	38.78	40.09		40.09	0.000002	0.03	5.52	14.00	0.01
01	6771	Max WS	Tr100_12h	0.06	38.78	39.91		39.91	0.000001	0.02	3.10	13.46	0.01
01	6721	Max WS	Tr100_2h	-0.06	38.83	40.07		40.07	0.000000	-0.01	5.97	13.00	0.00
01	6721	Max WS	Tr100_4h	0.04	38.83	40.18		40.18	0.000000	0.01	7.42	13.00	0.00
01	6721	Max WS	Tr100_7h	-0.04	38.83	40.09		40.09	0.000000	-0.01	6.23	13.00	0.00
01	6721	Max WS	Tr100_12h	-0.05	38.83	39.91		39.91	0.000001	-0.01	3.98	13.00	0.01
01	6671	Max WS	Tr100_2h	-0.01	39.04	40.07		40.07	0.000000	0.00	4.18	8.00	0.00
01	6671	Max WS	Tr100_4h	0.09	39.04	40.18		40.18	0.000001	0.02	5.07	8.00	0.01
01	6671	Max WS	Tr100_7h	0.01	39.04	40.09		40.09	0.000000	0.00	4.34	8.00	0.00
01	6671	Max WS	Tr100_12h	-0.09	39.04	39.91		39.91	0.000004	-0.03	2.96	8.00	0.02
01	6621	Max WS	Tr100_2h	0.02	38.92	40.07		40.07	0.000000	0.01	2.81	6.00	0.00
01	6621	Max WS	Tr100_4h	-0.07	38.92	40.18		40.18	0.000001	-0.02	3.48	6.00	0.01
01	6621	Max WS	Tr100_7h	0.01	38.92	40.09		40.09	0.000000	0.01	2.93	6.00	0.00
01	6621	Max WS	Tr100_12h	0.11	38.92	39.91		39.91	0.000012	0.06	1.96	4.92	0.03

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6571	Max WS	Tr100_2h	-0.04	38.74	40.07		40.07	0.000000	-0.01	4.45	10.00	0.00
01	6571	Max WS	Tr100_4h	0.03	38.74	40.18		40.18	0.000000	0.01	5.57	10.00	0.00
01	6571	Max WS	Tr100_7h	-0.02	38.74	40.09		40.09	0.000000	-0.01	4.65	10.00	0.00
01	6571	Max WS	Tr100_12h	-0.07	38.74	39.91		39.91	0.000002	-0.03	3.03	7.48	0.01
01	6521	Max WS	Tr100_2h	-0.02	38.69	40.07		40.07	0.000000	0.00	5.95	11.00	0.00
01	6521	Max WS	Tr100_4h	-0.24	38.69	40.18		40.18	0.000003	-0.04	7.18	11.00	0.01
01	6521	Max WS	Tr100_7h	-0.03	38.69	40.09		40.09	0.000000	-0.01	6.17	11.00	0.00
01	6521	Max WS	Tr100_12h	-0.10	38.69	39.91		39.91	0.000002	-0.03	4.27	11.00	0.01
01	6471	Max WS	Tr100_2h	0.04	38.71	40.07		40.07	0.000000	0.00	11.45	18.00	0.00
01	6471	Max WS	Tr100_4h	-0.39	38.71	40.18		40.18	0.000002	-0.04	13.47	18.00	0.01
01	6471	Max WS	Tr100_7h	-0.02	38.71	40.09		40.09	0.000000	0.00	11.82	18.00	0.00
01	6471	Max WS	Tr100_12h	0.05	38.71	39.91		39.91	0.000000	0.01	8.70	18.00	0.00
01	6421	Max WS	Tr100_2h	-0.10	38.72	40.07		40.07	0.000001	-0.02	5.92	8.00	0.01
01	6421	Max WS	Tr100_4h	-0.75	38.72	40.18		40.18	0.000021	-0.13	6.81	8.00	0.04
01	6421	Max WS	Tr100_7h	-0.24	38.72	40.09		40.09	0.000003	-0.05	6.08	8.00	0.02
01	6421	Max WS	Tr100_12h	-0.08	38.72	39.91		39.91	0.000001	-0.02	4.69	8.00	0.01
01	6371	Max WS	Tr100_2h	-0.34	38.60	40.07		40.07	0.000010	-0.07	5.83	13.67	0.03
01	6371	Max WS	Tr100_4h	-1.22	38.60	40.18		40.18	0.000073	-0.21	7.40	14.00	0.07
01	6371	Max WS	Tr100_7h	-0.52	38.60	40.09		40.09	0.000021	-0.10	6.11	13.87	0.04
01	6371	Max WS	Tr100_12h	-0.39	38.60	39.91		39.91	0.000030	-0.11	3.97	10.02	0.04
01	6321	Max WS	Tr100_2h	-0.69	38.51	40.07		40.07	0.000018	-0.11	6.86	9.00	0.03
01	6321	Max WS	Tr100_4h	-2.14	38.51	40.18		40.18	0.000117	-0.30	7.87	9.00	0.09
01	6321	Max WS	Tr100_7h	-0.97	38.51	40.09		40.09	0.000033	-0.15	7.05	9.00	0.05
01	6321	Max WS	Tr100_12h	0.82	38.51	39.91		39.91	0.000047	0.16	5.47	8.85	0.06
01	6271	Max WS	Tr100_2h	4.40	38.44	40.02		40.04	0.000638	0.62	8.99	23.70	0.21
01	6271	Max WS	Tr100_4h	5.09	38.44	40.15		40.17	0.000419	0.56	12.47	32.00	0.18
01	6271	Max WS	Tr100_7h	4.51	38.44	40.05		40.06	0.000584	0.61	9.58	24.12	0.20
01	6271	Max WS	Tr100_12h	3.43	38.44	39.85		39.87	0.000965	0.69	5.34	14.41	0.25
01	6258.5	Max WS	Tr100_2h	4.40	38.39	40.01	39.33	40.03	0.000836	0.70	7.56	21.42	0.24
01	6258.5	Max WS	Tr100_4h	5.08	38.39	40.14	39.39	40.16	0.000536	0.62	10.81	24.83	0.20
01	6258.5	Max WS	Tr100_7h	4.51	38.39	40.03	39.34	40.05	0.000768	0.68	8.13	23.03	0.23
01	6258.5	Max WS	Tr100_12h	3.43	38.39	39.83	39.24	39.86	0.001212	0.73	4.68	7.19	0.28
01	6250			Bridge									
01	6246	Max WS	Tr100_2h	4.40	38.39	39.91		39.94	0.001412	0.84	5.61	17.28	0.31
01	6246	Max WS	Tr100_4h	5.08	38.39	40.01		40.04	0.001101	0.80	7.62	21.76	0.28
01	6246	Max WS	Tr100_7h	4.51	38.39	39.93		39.96	0.001350	0.83	5.96	18.64	0.30
01	6246	Max WS	Tr100_12h	3.43	38.39	39.78		39.81	0.001447	0.79	4.37	6.48	0.31
01	6245			Lat Struct									
01	6244			Lat Struct									
01	6221	Max WS	Tr100_2h	4.40	38.24	39.82		39.89	0.002910	1.14	3.85	4.98	0.41
01	6221	Max WS	Tr100_4h	5.08	38.24	39.92		39.99	0.002993	1.15	4.41	5.85	0.42
01	6221	Max WS	Tr100_7h	4.50	38.24	39.84		39.91	0.002893	1.14	3.96	5.13	0.41
01	6221	Max WS	Tr100_12h	3.43	38.24	39.71		39.76	0.002426	1.03	3.33	4.32	0.37
01	6181	Max WS	Tr100_2h	4.40	38.14	39.70	39.19	39.77	0.003130	1.18	3.73	4.83	0.43
01	6181	Max WS	Tr100_4h	5.08	38.14	39.80	39.26	39.87	0.003218	1.20	4.24	5.58	0.44
01	6181	Max WS	Tr100_7h	4.50	38.14	39.72	39.20	39.79	0.003081	1.17	3.84	4.96	0.43
01	6181	Max WS	Tr100_12h	3.43	38.14	39.62	39.08	39.67	0.002398	1.02	3.35	4.35	0.37
01	6176			Bridge									
01	6171	Max WS	Tr100_2h	4.40	38.14	39.63		39.72	0.003757	1.28	3.43	4.45	0.47
01	6171	Max WS	Tr100_4h	5.07	38.14	39.67		39.77	0.004467	1.40	3.61	4.68	0.51
01	6171	Max WS	Tr100_7h	4.50	38.14	39.64		39.73	0.003815	1.29	3.48	4.52	0.47
01	6171	Max WS	Tr100_12h	3.43	38.14	39.58		39.64	0.002628	1.07	3.21	4.15	0.39
01	6170			Lat Struct									
01	6169			Lat Struct									
01	6121	Max WS	Tr100_2h	4.40	37.98	39.59		39.60	0.000381	0.53	8.26	7.87	0.17
01	6121	Max WS	Tr100_4h	5.05	37.98	39.62		39.63	0.000519	0.59	8.50	8.78	0.19
01	6121	Max WS	Tr100_7h	4.50	37.98	39.60		39.61	0.000388	0.54	8.34	7.91	0.17
01	6121	Max WS	Tr100_12h	3.43	37.98	39.55		39.56	0.000254	0.43	7.97	7.71	0.14
01	6071	Max WS	Tr100_2h	3.36	37.77	39.57		39.59	0.000500	0.54	6.27	6.91	0.18
01	6071	Max WS	Tr100_4h	3.39	37.77	39.61		39.62	0.000454	0.52	6.53	7.00	0.17
01	6071	Max WS	Tr100_7h	3.25	37.77	39.59		39.60	0.000447	0.51	6.37	6.94	0.17
01	6071	Max WS	Tr100_12h	2.83	37.77	39.53		39.55	0.000399	0.47	6.02	6.82	0.16
01	6021	Max WS	Tr100_2h	4.69	37.82	39.50	38.78	39.53	0.001161	0.81	5.80	6.65	0.28
01	6021	Max WS	Tr100_4h	4.97	37.82	39.53	38.80	39.56	0.001162	0.83	6.03	6.68	0.28
01	6021	Max WS	Tr100_7h	4.80	37.82	39.51	38.79	39.54	0.001162	0.82	5.88	6.66	0.28
01	6021	Max WS	Tr100_12h	4.38	37.82	39.46	38.75	39.49	0.001150	0.79	5.55	6.61	0.27
01	6010			Bridge									
01	6001	Max WS	Tr100_2h	4.69	37.82	39.30		39.35	0.002159	1.04	4.53	5.76	0.37

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6001	Max WS	Tr100_4h	4.97	37.82	39.31		39.37	0.002365	1.08	4.59	5.83	0.39
01	6001	Max WS	Tr100_7h	4.80	37.82	39.30		39.36	0.002235	1.05	4.55	5.79	0.38
01	6001	Max WS	Tr100_12h	4.38	37.82	39.29		39.33	0.001935	0.98	4.47	5.67	0.35
01	6000		Lat Struct										
01	5999		Lat Struct										
01	5971	Max WS	Tr100_2h	4.59	37.58	39.26		39.30	0.001356	0.87	5.34	7.00	0.30
01	5971	Max WS	Tr100_4h	4.85	37.58	39.27		39.31	0.001476	0.91	5.39	7.00	0.31
01	5971	Max WS	Tr100_7h	4.69	37.58	39.26		39.30	0.001401	0.89	5.36	7.00	0.30
01	5971	Max WS	Tr100_12h	4.30	37.58	39.25		39.29	0.001227	0.82	5.29	7.00	0.28
01	5921	Max WS	Tr100_2h	4.03	37.53	39.18		39.23	0.002062	0.93	4.32	6.64	0.35
01	5921	Max WS	Tr100_4h	4.14	37.53	39.19		39.24	0.002108	0.95	4.37	6.78	0.36
01	5921	Max WS	Tr100_7h	4.06	37.53	39.19		39.23	0.002044	0.93	4.36	6.74	0.35
01	5921	Max WS	Tr100_12h	3.89	37.53	39.18		39.22	0.001976	0.91	4.28	6.51	0.34
01	5871	Max WS	Tr100_2h	3.90	37.59	39.12		39.15	0.001111	0.78	4.99	5.83	0.27
01	5871	Max WS	Tr100_4h	3.92	37.59	39.13		39.16	0.001096	0.78	5.04	5.86	0.27
01	5871	Max WS	Tr100_7h	3.90	37.59	39.13		39.16	0.001089	0.78	5.03	5.86	0.27
01	5871	Max WS	Tr100_12h	3.80	37.59	39.11		39.14	0.001071	0.77	4.96	5.81	0.26
01	5870		Lat Struct										
01	5821	Max WS	Tr100_2h	3.84	37.63	39.03		39.07	0.002043	0.89	4.34	6.84	0.35
01	5821	Max WS	Tr100_4h	3.88	37.63	39.04		39.08	0.001953	0.87	4.43	6.87	0.35
01	5821	Max WS	Tr100_7h	3.86	37.63	39.04		39.08	0.001950	0.87	4.42	6.86	0.35
01	5821	Max WS	Tr100_12h	3.79	37.63	39.03		39.07	0.002003	0.88	4.33	6.84	0.35
01	5771	Max WS	Tr100_2h	3.76	37.26	38.95		38.98	0.001469	0.84	4.55	6.63	0.30
01	5771	Max WS	Tr100_4h	3.75	37.26	38.97		39.00	0.001346	0.81	4.69	6.69	0.29
01	5771	Max WS	Tr100_7h	3.74	37.26	38.97		39.00	0.001351	0.81	4.68	6.68	0.29
01	5771	Max WS	Tr100_12h	3.74	37.26	38.95		38.98	0.001460	0.83	4.54	6.63	0.30
01	5721	Max WS	Tr100_2h	3.73	37.37	38.86		38.90	0.001692	0.91	4.11	4.94	0.32
01	5721	Max WS	Tr100_4h	3.71	37.37	38.89		38.93	0.001537	0.87	4.26	5.07	0.30
01	5721	Max WS	Tr100_7h	3.72	37.37	38.89		38.93	0.001552	0.87	4.25	5.06	0.30
01	5721	Max WS	Tr100_12h	3.73	37.37	38.86		38.90	0.001697	0.91	4.11	4.93	0.32
01	5671	Max WS	Tr100_2h	3.73	37.26	38.81		38.84	0.000882	0.72	5.15	5.33	0.23
01	5671	Max WS	Tr100_4h	3.71	37.26	38.85		38.87	0.000804	0.70	5.33	5.47	0.22
01	5671	Max WS	Tr100_7h	3.71	37.26	38.84		38.87	0.000810	0.70	5.32	5.46	0.23
01	5671	Max WS	Tr100_12h	3.73	37.26	38.81		38.84	0.000888	0.73	5.14	5.32	0.24
01	5621	Max WS	Tr100_2h	3.72	37.22	38.77		38.79	0.000900	0.72	5.19	5.94	0.24
01	5621	Max WS	Tr100_4h	3.71	37.22	38.81		38.83	0.000808	0.68	5.43	6.16	0.23
01	5621	Max WS	Tr100_7h	3.71	37.22	38.80		38.83	0.000816	0.69	5.41	6.14	0.23
01	5621	Max WS	Tr100_12h	3.73	37.22	38.77		38.79	0.000911	0.72	5.18	5.93	0.25
01	5601.	Max WS	Tr100_2h	3.72	37.16	38.75	37.96	38.78	0.000790	0.68	5.51	6.30	0.23
01	5601.	Max WS	Tr100_4h	3.71	37.16	38.80	37.96	38.82	0.000696	0.64	5.77	7.22	0.22
01	5601.	Max WS	Tr100_7h	3.71	37.16	38.79	37.96	38.81	0.000704	0.65	5.75	7.05	0.22
01	5601.	Max WS	Tr100_12h	3.73	37.16	38.75	37.96	38.78	0.000799	0.68	5.49	6.29	0.23
01	5591		Bridge										
01	5586	Max WS	Tr100_2h	3.71	37.16	38.74		38.76	0.000822	0.69	5.41	6.23	0.23
01	5586	Max WS	Tr100_4h	3.71	37.16	38.78		38.80	0.000739	0.66	5.64	6.41	0.22
01	5586	Max WS	Tr100_7h	3.71	37.16	38.77		38.80	0.000747	0.66	5.62	6.39	0.22
01	5586	Max WS	Tr100_12h	3.73	37.16	38.74		38.76	0.000833	0.69	5.40	6.22	0.24
01	5585		Lat Struct										
01	5584		Lat Struct										
01	5571	Max WS	Tr100_2h	3.71	37.07	38.73		38.75	0.000675	0.66	5.69	6.62	0.21
01	5571	Max WS	Tr100_4h	3.71	37.07	38.77		38.79	0.000605	0.63	5.95	7.45	0.20
01	5571	Max WS	Tr100_7h	3.71	37.07	38.76		38.78	0.000611	0.63	5.92	7.34	0.20
01	5571	Max WS	Tr100_12h	3.73	37.07	38.73		38.75	0.000685	0.66	5.67	6.60	0.21
01	5521	Max WS	Tr100_2h	2.64	36.99	38.73		38.74	0.000282	0.43	6.15	7.00	0.14
01	5521	Max WS	Tr100_4h	2.81	36.99	38.76		38.77	0.000287	0.44	6.39	7.00	0.14
01	5521	Max WS	Tr100_7h	2.80	36.99	38.76		38.77	0.000289	0.45	6.37	7.00	0.14
01	5521	Max WS	Tr100_12h	2.64	36.99	38.73		38.74	0.000284	0.43	6.14	7.00	0.14
01	5471	Max WS	Tr100_2h	2.60	37.06	38.71		38.72	0.000361	0.46	6.34	10.78	0.16
01	5471	Max WS	Tr100_4h	1.51	37.06	38.77		38.77	0.000097	0.25	6.93	10.84	0.08
01	5471	Max WS	Tr100_7h	1.56	37.06	38.76		38.77	0.000105	0.26	6.89	10.84	0.08
01	5471	Max WS	Tr100_12h	2.74	37.06	38.71		38.72	0.000409	0.49	6.28	10.77	0.17
01	5421	Max WS	Tr100_2h	2.76	36.97	38.69	37.72	38.70	0.000390	0.51	5.44	5.28	0.16
01	5421	Max WS	Tr100_4h	1.32	36.97	38.76	37.51	38.77	0.000073	0.23	5.85	5.43	0.07
01	5421	Max WS	Tr100_7h	1.51	36.97	38.76	37.54	38.76	0.000097	0.26	5.82	5.42	0.08
01	5421	Max WS	Tr100_12h	2.90	36.97	38.68	37.74	38.70	0.000442	0.54	5.40	5.26	0.17
01	5415		Bridge										
01	5401	Max WS	Tr100_2h	2.76	36.97	38.68		38.69	0.000399	0.51	5.40	5.26	0.16
01	5401	Max WS	Tr100_4h	1.32	36.97	38.76		38.77	0.000074	0.23	5.84	5.43	0.07
01	5401	Max WS	Tr100_7h	1.51	36.97	38.76		38.76	0.000098	0.26	5.80	5.41	0.08

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5401	Max WS	Tr100_12h	2.90	36.97	38.67		38.69	0.000453	0.54	5.35	5.24	0.17
01	5400			Lat Struct									
01	5399			Lat Struct									
01	5371	Max WS	Tr100_2h	2.75	36.88	38.68		38.68	0.000222	0.41	6.76	5.82	0.12
01	5371	Max WS	Tr100_4h	1.32	36.88	38.76		38.76	0.000042	0.18	7.27	6.05	0.05
01	5371	Max WS	Tr100_7h	1.51	36.88	38.76		38.76	0.000056	0.21	7.23	6.04	0.06
01	5371	Max WS	Tr100_12h	2.90	36.88	38.67		38.68	0.000253	0.43	6.70	5.80	0.13
01	5321	Max WS	Tr100_2h	2.74	36.86	38.66		38.67	0.000293	0.44	6.16	5.60	0.14
01	5321	Max WS	Tr100_4h	1.32	36.86	38.76		38.76	0.000054	0.20	6.73	5.93	0.06
01	5321	Max WS	Tr100_7h	1.50	36.86	38.75		38.75	0.000072	0.23	6.68	5.90	0.07
01	5321	Max WS	Tr100_12h	2.90	36.86	38.65		38.66	0.000338	0.48	6.10	5.56	0.15
01	5271	Max WS	Tr100_2h	2.74	36.76	38.65	37.47	38.66	0.000219	0.40	6.91	6.17	0.12
01	5271	Max WS	Tr100_4h	1.32	36.76	38.76	37.30	38.76	0.000040	0.17	7.59	6.67	0.05
01	5271	Max WS	Tr100_7h	1.50	36.76	38.75	37.32	38.75	0.000053	0.20	7.54	6.59	0.06
01	5271	Max WS	Tr100_12h	2.90	36.76	38.64	37.48	38.65	0.000253	0.43	6.83	6.11	0.13
01	5265			Bridge									
01	5256	Max WS	Tr100_2h	2.74	36.76	38.64		38.65	0.000223	0.40	6.86	6.13	0.12
01	5256	Max WS	Tr100_4h	1.32	36.76	38.76		38.76	0.000040	0.17	7.58	6.64	0.05
01	5256	Max WS	Tr100_7h	1.50	36.76	38.75		38.75	0.000054	0.20	7.52	6.58	0.06
01	5256	Max WS	Tr100_12h	2.90	36.76	38.63		38.64	0.000258	0.43	6.77	6.07	0.13
01	5255			Lat Struct									
01	5254			Lat Struct									
01	5221	Max WS	Tr100_2h	2.74	36.72	38.63		38.64	0.000274	0.41	6.63	6.93	0.13
01	5221	Max WS	Tr100_4h	1.32	36.72	38.75		38.76	0.000049	0.18	7.53	7.86	0.06
01	5221	Max WS	Tr100_7h	1.51	36.72	38.74		38.75	0.000065	0.20	7.46	7.83	0.07
01	5221	Max WS	Tr100_12h	2.90	36.72	38.62		38.63	0.000318	0.44	6.53	6.80	0.14
01	5171	Max WS	Tr100_2h	3.67	36.63	38.61		38.62	0.000361	0.51	7.26	6.90	0.16
01	5171	Max WS	Tr100_4h	2.72	36.63	38.74		38.75	0.000139	0.33	8.19	7.18	0.10
01	5171	Max WS	Tr100_7h	2.87	36.63	38.73		38.74	0.000160	0.35	8.12	7.12	0.10
01	5171	Max WS	Tr100_12h	3.75	36.63	38.59		38.60	0.000396	0.52	7.14	6.88	0.16
01	5121	Max WS	Tr100_2h	4.53	36.78	38.56		38.58	0.000827	0.71	6.37	6.66	0.23
01	5121	Max WS	Tr100_4h	4.06	36.78	38.71		38.72	0.000460	0.54	7.48	8.72	0.18
01	5121												

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4829			Lat Struct									
01	4821	Max WS	Tr100_2h	6.15	35.95	37.68		37.72	0.001068	0.86	7.21	8.14	0.27
01	4821	Max WS	Tr100_4h	7.40	35.95	37.72		37.77	0.001395	0.99	7.50	8.20	0.31
01	4821	Max WS	Tr100_7h	7.37	35.95	37.72		37.77	0.001369	0.99	7.53	8.20	0.31
01	4821	Max WS	Tr100_12h	6.08	35.95	37.68		37.72	0.001040	0.84	7.23	8.14	0.27
01	4771	Max WS	Tr100_2h	3.88	36.05	37.68		37.70	0.000540	0.62	6.30	6.22	0.19
01	4771	Max WS	Tr100_4h	4.27	36.05	37.73		37.75	0.000569	0.65	6.61	6.36	0.20
01	4771	Max WS	Tr100_7h	4.08	36.05	37.73		37.75	0.000508	0.62	6.66	6.39	0.19
01	4771	Max WS	Tr100_12h	3.94	36.05	37.68		37.70	0.000552	0.62	6.32	6.23	0.19
01	4721	Max WS	Tr100_2h	5.47	36.03	37.58		37.63	0.001454	0.97	5.95	7.80	0.32
01	4721	Max WS	Tr100_4h	6.14	36.03	37.62		37.67	0.001605	1.04	6.23	7.87	0.34
01	4721	Max WS	Tr100_7h	6.19	36.03	37.62		37.67	0.001623	1.05	6.24	7.87	0.34
01	4721	Max WS	Tr100_12h	5.50	36.03	37.59		37.63	0.001464	0.97	5.97	7.80	0.32
01	4671	Max WS	Tr100_2h	5.29	35.79	37.52		37.56	0.001373	0.97	6.03	9.60	0.31
01	4671	Max WS	Tr100_4h	5.89	35.79	37.55		37.60	0.001532	1.05	6.35	10.73	0.32
01	4671	Max WS	Tr100_7h	5.91	35.79	37.55		37.60	0.001536	1.05	6.36	10.73	0.32
01	4671	Max WS	Tr100_12h	5.32	35.79	37.52		37.56	0.001381	0.98	6.05	9.62	0.31
01	4621	Max WS	Tr100_2h	5.28	35.90	37.42		37.48	0.001952	1.04	5.12	6.73	0.35
01	4621	Max WS	Tr100_4h	5.88	35.90	37.44		37.50	0.002312	1.14	5.21	6.75	0.39
01	4621	Max WS	Tr100_7h	5.90	35.90	37.44		37.50	0.002325	1.15	5.21	6.75	0.39
01	4621	Max WS	Tr100_12h	5.31	35.90	37.42		37.48	0.001972	1.05	5.13	6.74	0.36
01	4571	Max WS	Tr100_2h	4.38	36.01	37.38		37.42	0.001112	0.83	5.57	8.82	0.28
01	4571	Max WS	Tr100_4h	4.77	36.01	37.39		37.43	0.001268	0.89	5.67	8.83	0.30
01	4571	Max WS	Tr100_7h	4.79	36.01	37.40		37.43	0.001274	0.89	5.67	8.83	0.30
01	4571	Max WS	Tr100_12h	4.40	36.01	37.38		37.42	0.001119	0.83	5.58	8.82	0.28
01	4521	Max WS	Tr100_2h	3.15	35.87	37.37		37.39	0.000609	0.60	5.27	5.71	0.20
01	4521	Max WS	Tr100_4h	3.31	35.87	37.39		37.41	0.000646	0.62	5.35	5.73	0.20
01	4521	Max WS	Tr100_7h	3.31	35.87	37.39		37.41	0.000646	0.62	5.35	5.74	0.20
01	4521	Max WS	Tr100_12h	3.15	35.87	37.37		37.39	0.000606	0.60	5.28	5.71	0.20
01	4471	Max WS	Tr100_2h	3.04	35.86	37.34		37.36	0.000636	0.57	5.33	6.76	0.20
01	4471	Max WS	Tr100_4h	3.15	35.86	37.36		37.38	0.000654	0.58	5.42	6.81	0.21
01	4471	Max WS	Tr100_7h	3.15	35.86	37.36		37.38	0.000654	0.58	5.42	6.81	0.21
01	4471	Max WS	Tr100_12h	3.03	35.86	37.35		37.36	0.000630	0.57	5.34	6.76	0.20
01	4446	Max WS	Tr100_2h	3.04	35.76	37.33	36.48	37.35	0.000518	0.54	5.57	6.40	0.19
01	4446	Max WS	Tr100_4h	3.15	35.76	37.34	36.49	37.36	0.000536	0.56	5.65	6.44	0.19
01	4446	Max WS	Tr100_7h	3.15	35.76	37.35	36.49	37.36	0.000535	0.56	5.66	6.44	0.19
01	4446	Max WS	Tr100_12h	3.03	35.76	37.33	36.48	37.35	0.000513	0.54	5.58	6.41	0.19
01	4435			Bridge									
01	4421	Max WS	Tr100_2h	3.04	35.76	37.30		37.32	0.000575	0.57	5.36	6.29	0.20
01	4421	Max WS	Tr100_4h	3.15	35.76	37.31		37.33	0.000597	0.58	5.43	6.33	0.20
01	4421	Max WS	Tr100_7h	3.15	35.76	37.31		37.33	0.000597	0.58	5.43	6.33	0.20
01	4421	Max WS	Tr100_12h	3.03	35.76	37.30		37.32	0.000568	0.56	5.38	6.30	0.19
01	4420			Lat Struct									
01	4419			Lat Struct									
01	4371	Max WS	Tr100_2h	3.04	35.89	37.27		37.29	0.000475	0.54	5.65	6.24	0.18
01	4371	Max WS	Tr100_4h	3.15	35.89	37.28		37.30	0.000497	0.55	5.71	6.28	0.18
01	4371	Max WS	Tr100_7h	3.15	35.89	37.28		37.30	0.000496	0.55	5.71	6.28	0.18
01	4371	Max WS	Tr100_12h	3.03	35.89	37.28		37.29	0.000470	0.53	5.66	6.25	0.18
01	4321	Max WS	Tr100_2h	3.04	35.92	37.25		37.26	0.000501	0.53	5.70	6.98	0.19
01	4321	Max WS	Tr100_4h	3.15	35.92	37.26		37.27	0.000522	0.55	5.76	7.02	0.19
01	4321	Max WS	Tr100_7h	3.14	35.92	37.26		37.27	0.000520	0.55	5.77	7.02	0.19
01	4321	Max WS	Tr100_12h	3.03	35.92	37.25		37.27	0.000493	0.53	5.72	6.99	0.18
01	4271	Max WS	Tr100_2h	3.04	35.85	37.22		37.23	0.000691	0.56	5.44	19.78	0.21
01	4271	Max WS	Tr100_4h	3.15	35.85	37.23		37.24	0.000730	0.57	5.50	20.23	0.22
01	4271	Max WS	Tr100_7h	3.14	35.85	37.23		37.24	0.000725	0.57	5.51	20.29	0.22
01	4271	Max WS	Tr100_12h	3.03	35.85	37.22		37.24	0.000682	0.55	5.47	19.96	0.21
01	4221	Max WS	Tr100_2h	3.04	35.73	37.19		37.21	0.000464	0.54	5.60	5.85	0.18
01	4221	Max WS	Tr100_4h	3.15	35.73	37.20		37.21	0.000492	0.56	5.63	5.86	0.18
01	4221	Max WS	Tr100_7h	3.13	35.73	37.20		37.21	0.000486	0.56	5.64	5.86	0.18
01	4221	Max WS	Tr100_12h	3.03	35.73	37.19		37.21	0.000457	0.54	5.62	5.86	0.18
01	4171	Max WS	Tr100_2h	2.89	35.96	37.16		37.18	0.000719	0.59	5.16	9.70	0.22
01	4171	Max WS	Tr100_4h	2.98	35.96	37.16		37.18	0.000750	0.60	5.20	9.71	0.22
01	4171	Max WS	Tr100_7h	2.92	35.96	37.17		37.18	0.000709	0.58	5.23	9.72	0.22
01	4171	Max WS	Tr100_12h	2.86	35.96	37.17		37.18	0.000683	0.57	5.21	9.71	0.21
01	4121	Max WS	Tr100_2h	2.55	35.92	37.12		37.14	0.000915	0.60	4.35	8.63	0.24
01	4121	Max WS	Tr100_4h	2.48	35.92	37.13		37.15	0.000836	0.58	4.41	8.72	0.23
01	4121	Max WS	Tr100_7h	2.44	35.92	37.14		37.15	0.000780	0.56	4.46	8.76	0.23
01	4121	Max WS	Tr100_12h	2.41	35.92	37.14		37.15	0.000762	0.55	4.46	8.76	0.22
01	4071	Max WS	Tr100_2h	2.39	35.81	37.08		37.10	0.000910	0.58	4.25	9.60	0.24
01	4071	Max WS	Tr100_4h	2.21	35.81	37.10		37.11	0.000705	0.52	4.41	9.94	0.21

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4071	Max WS	Tr100_7h	2.09	35.81	37.11		37.12	0.000585	0.48	4.55	10.00	0.19
01	4071	Max WS	Tr100_12h	0.31	35.81	37.12		37.12	0.000012	0.07	4.67	10.00	0.03
01	4021	Max WS	Tr100_2h	2.23	35.76	37.05		37.06	0.000698	0.49	4.56	8.88	0.21
01	4021	Max WS	Tr100_4h	1.73	35.76	37.08		37.09	0.000344	0.36	4.88	9.00	0.15
01	4021	Max WS	Tr100_7h	1.42	35.76	37.10		37.11	0.000208	0.28	5.07	9.00	0.12
01	4021	Max WS	Tr100_12h	0.20	35.76	37.12		37.12	0.000004	0.04	5.25	9.00	0.02
01	3971	Max WS	Tr100_2h	1.65	35.89	37.03		37.04	0.000332	0.37	4.74	10.00	0.15
01	3971	Max WS	Tr100_4h	1.05	35.89	37.08		37.08	0.000101	0.21	5.25	10.00	0.08
01	3971	Max WS	Tr100_7h	0.87	35.89	37.10		37.10	0.000061	0.17	5.46	10.00	0.06
01	3971	Max WS	Tr100_12h	0.15	35.89	37.12		37.12	0.000002	0.03	5.67	10.00	0.01
01	3921	Max WS	Tr100_2h	0.88	35.75	37.03		37.03	0.000126	0.24	3.88	8.60	0.09
01	3921	Max WS	Tr100_4h	0.33	35.75	37.08		37.08	0.000013	0.08	4.38	9.00	0.03
01	3921	Max WS	Tr100_7h	0.16	35.75	37.10		37.10	0.000003	0.04	4.57	9.00	0.01
01	3921	Max WS	Tr100_12h	0.09	35.75	37.12		37.12	0.000001	0.02	4.73	9.00	0.01
01	3881	Max WS	Tr100_2h	0.84	35.70	37.03	36.08	37.03	0.000039	0.15	5.68	7.28	0.05
01	3881	Max WS	Tr100_4h	0.41	35.70	37.08	36.00	37.08	0.000008	0.07	6.10	7.89	0.02
01	3881	Max WS	Tr100_7h	0.39	35.70	37.10	36.00	37.10	0.000006	0.06	6.28	8.41	0.02
01	3881	Max WS	Tr100_12h	0.06	35.70	37.12	35.85	37.12	0.000000	0.01	6.44	8.74	0.00
01	3876			Bridge									
01	3871	Max WS	Tr100_2h	0.84	35.70	37.03		37.03	0.000039	0.15	5.67	7.26	0.05
01	3871	Max WS	Tr100_4h	0.41	35.70	37.08		37.08	0.000008	0.07	6.08	7.83	0.02
01	3871	Max WS	Tr100_7h	0.39	35.70	37.10		37.10	0.000006	0.06	6.27	8.39	0.02
01	3871	Max WS	Tr100_12h	0.06	35.70	37.12		37.12	0.000000	0.01	6.44	8.74	0.00
01	3870			Lat Struct									
01	3869			Lat Struct									
01	3821	Max WS	Tr100_2h	0.83	35.84	37.02		37.02	0.000090	0.20	4.25	6.23	0.08
01	3821	Max WS	Tr100_4h	0.39	35.84	37.08		37.08	0.000016	0.08	4.61	6.65	0.03
01	3821	Max WS	Tr100_7h	0.38	35.84	37.10		37.10	0.000014	0.08	4.80	8.14	0.03
01	3821	Max WS	Tr100_12h	0.06	35.84	37.12		37.12	0.000000	0.01	4.97	8.58	0.00
01	3771	Max WS	Tr100_2h	0.83	35.62	37.02		37.02	0.000082	0.19	4.42	6.35	0.07
01	3771	Max WS	Tr100_4h	0.38	35.62	37.08		37.08	0.000014	0.08	4.80	6.72	0.03
01	3771	Max WS	Tr100_7h	0.37	35.62	37.10		37.10	0.000013	0.08	4.97	6.97	0.03
01	3771	Max WS	Tr100_12h	0.06	35.62	37.12		37.12	0.000000	0.01	5.12	7.18	0.00
01	3721	Max WS	Tr100_2h	0.83	35.71	37.01		37.01	0.000089	0.20	4.23	7.71	0.08
01	3721	Max WS	Tr100_4h	0.40	35.71	37.08		37.08	0.000015	0.09	4.82	10.00	0.03
01	3721	Max WS	Tr100_7h	0.43	35.71	37.10		37.10	0.000016	0.09	5.06	10.00	0.03
01	3721	Max WS	Tr100_12h	0.06	35.71	37.12		37.12	0.000000	0.01	5.29	10.00	0.00
01	3671	Max WS	Tr100_2h	1.08	35.34	37.01		37.01	0.000094	0.21	5.37	10.00	0.08
01	3671	Max WS	Tr100_4h	0.64	35.34	37.07		37.07	0.000024	0.11	6.04	10.00	0.04
01	3671	Max WS	Tr100_7h	0.52	35.34	37.10		37.10	0.000014	0.09	6.29	10.00	0.03
01	3671	Max WS	Tr100_12h	0.06	35.34	37.12		37.12	0.000000	0.01	6.53	10.00	0.00
01	3621	Max WS	Tr100_2h	1.70	35.66	36.99		37.00	0.000308	0.36	4.75	7.81	0.14
01	3621	Max WS	Tr100_4h	2.14	35.66	37.05		37.06	0.000385	0.41	5.28	9.37	0.16
01	3621	Max WS	Tr100_7h	2.32	35.66	37.07		37.08	0.000414	0.43	5.50	9.51	0.16
01	3621	Max WS	Tr100_12h	0.06	35.66	37.12		37.12	0.000000	0.01	5.98	9.83	0.00
01	3571	Max WS	Tr100_2h	1.70	35.67	36.98		36.99	0.000148	0.30	5.73	6.50	0.10
01	3571	Max WS	Tr100_4h	2.18	35.67	37.04		37.04	0.000210	0.36	6.09	6.72	0.12
01	3571	Max WS	Tr100_7h	2.41	35.67	37.06		37.06	0.000242	0.39	6.23	6.84	0.13
01	3571	Max WS	Tr100_12h	0.06	35.67	37.12		37.12	0.000000	0.01	6.70	7.46	0.00
01	3521	Max WS	Tr100_2h	1.69	35.81	36.97		36.97	0.000350	0.36	4.68	8.25	0.15
01	3521	Max WS	Tr100_4h	2.17	35.81	37.02		37.03	0.000446	0.43	5.11	8.85	0.17
01	3521	Max WS	Tr100_7h	2.38	35.81	37.04		37.05	0.000489	0.46	5.28	8.88	0.18
01	3521	Max WS	Tr100_12h	0.05	35.81	37.12		37.12	0.000000	0.01	6.05	8.98	0.00
01	3520			Lat Struct									
01	3519			Lat Struct									
01	3471	Max WS	Tr100_2h	1.68	35.63	36.96		36.96	0.000191	0.32	5.30	6.70	0.11
01	3471	Max WS	Tr100_4h	1.94	35.63	37.01		37.01	0.000214	0.34	5.64	6.85	0.12
01	3471	Max WS	Tr100_7h	0.23	35.63	37.03		37.03	0.000003	0.04	5.80	6.91	0.01
01	3471	Max WS	Tr100_12h	0.04	35.63	37.12		37.12	0.000000	0.01	6.47	7.42	0.00
01	3421	Max WS	Tr100_2h	1.17	35.64	36.95		36.95	0.000129	0.22	5.42	10.24	0.09
01	3421	Max WS	Tr100_4h	1.30	35.64	37.00		37.01	0.000124	0.22	6.03	10.76	0.09
01	3421	Max WS	Tr100_7h	0.91	35.64	37.03		37.03	0.000055	0.15	6.31	10.99	0.06
01	3421	Max WS	Tr100_12h	0.02	35.64	37.12		37.12	0.000000	0.00	7.33	11.00	0.00
01	3371	Max WS	Tr100_2h	0.82	35.55	36.94		36.94	0.000059	0.15	5.56	11.00	0.06
01	3371	Max WS	Tr100_4h	1.51	35.55	36.99		37.00	0.000153	0.25	6.12	11.00	0.10
01	3371	Max WS	Tr100_7h	0.11	35.55	37.03		37.03	0.000001	0.02	6.50	11.00	0.01
01	3371	Max WS	Tr100_12h	0.04	35.55	37.12		37.12	0.000000	0.01	7.54	11.00	0.00
01	3321	Max WS	Tr100_2h	0.65	35.55	36.94		36.94	0.000039	0.13	5.01	7.38	0.05
01	3321	Max WS	Tr100_4h	0.91	35.55	36.99		36.99	0.000064	0.17	5.37	7.86	0.07
01	3321	Max WS	Tr100_7h	0.30	35.55	37.03		37.03	0.000006	0.05	5.72	8.94	0.02

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3321	Max WS	Tr100_12h	0.07	35.55	37.12		37.12	0.000000	0.01	6.59	9.57	0.00
01	3271	Max WS	Tr100_2h	0.62	35.54	36.94		36.94	0.000035	0.12	5.19	8.10	0.05
01	3271	Max WS	Tr100_4h	0.72	35.54	36.99		36.99	0.000044	0.13	5.61	10.36	0.05
01	3271	Max WS	Tr100_7h	0.47	35.54	37.03		37.03	0.000015	0.08	6.04	10.59	0.03
01	3271	Max WS	Tr100_12h	0.08	35.54	37.12		37.12	0.000000	0.01	7.08	11.00	0.00
01	3221	Max WS	Tr100_2h	0.58	35.52	36.94		36.94	0.000014	0.10	6.08	6.42	0.03
01	3221	Max WS	Tr100_4h	0.68	35.52	36.98		36.99	0.000017	0.11	6.37	6.59	0.03
01	3221	Max WS	Tr100_7h	0.51	35.52	37.03		37.03	0.000009	0.08	6.65	6.74	0.02
01	3221	Max WS	Tr100_12h	0.09	35.52	37.12		37.12	0.000000	0.01	7.33	7.56	0.00
01	3171	Max WS	Tr100_2h	0.57	35.51	36.94		36.94	0.000022	0.11	5.39	8.66	0.04
01	3171	Max WS	Tr100_4h	0.65	35.51	36.98		36.98	0.000024	0.11	5.81	9.72	0.04
01	3171	Max WS	Tr100_7h	0.51	35.51	37.03		37.03	0.000012	0.08	6.27	12.00	0.03
01	3171	Max WS	Tr100_12h	0.14	35.51	37.12		37.12	0.000001	0.02	7.43	12.00	0.01
01	3121	Max WS	Tr100_2h	0.56	35.78	36.94		36.94	0.000031	0.12	5.14	11.19	0.05
01	3121	Max WS	Tr100_4h	0.60	35.78	36.98		36.98	0.000029	0.12	5.70	13.15	0.05
01	3121	Max WS	Tr100_7h	0.51	35.78	37.02		37.03	0.000017	0.10	6.28	13.74	0.03
01	3121	Max WS	Tr100_12h	0.39	35.78	37.12		37.12	0.000006	0.06	7.71	15.36	0.02
01	3071	Max WS	Tr100_2h	0.55	35.18	36.94	35.46	36.94	0.000004	0.05	10.96	11.58	0.02
01	3071	Max WS	Tr100_4h	0.59	35.18	36.98	35.47	36.98	0.000004	0.05	11.50	11.94	0.02
01	3071	Max WS	Tr100_7h	0.51	35.18	37.02	35.45	37.02	0.000002	0.04	12.02	12.27	0.01
01	3071	Max WS	Tr100_12h	0.40	35.18	37.12	35.42	37.12	0.000001	0.03	13.26	13.28	0.01
01	3061			Bridge									
01	3051	Max WS	Tr100_2h	0.55	35.18	36.94		36.94	0.000004	0.05	10.96	11.58	0.02
01	3051	Max WS	Tr100_4h	0.58	35.18	36.98		36.98	0.000004	0.05	11.50	11.94	0.02
01	3051	Max WS	Tr100_7h	0.51	35.18	37.02		37.02	0.000002	0.04	12.02	12.27	0.01
01	3051	Max WS	Tr100_12h	0.40	35.18	37.12		37.12	0.000001	0.03	13.26	13.28	0.01
01	3050			Lat Struct									
01	3049			Lat Struct									
01	3021	Max WS	Tr100_2h	0.55	35.05	36.94		36.94	0.000010	0.08	6.82	6.89	0.03
01	3021	Max WS	Tr100_4h	0.58	35.05	36.98		36.98	0.000010	0.08	7.15	7.02	0.03
01	3021	Max WS	Tr100_7h	0.51	35.05	37.02		37.02	0.000007	0.07	7.46	7.90	0.02
01	3021	Max WS	Tr100_12h	0.40	35.05	37.12		37.12	0.000003	0.05	8.56	13.99	0.01
01	2971	Max WS	Tr100_2h	0.55	35.26	36.93		36.94	0.000013	0.08	6.58	7.69	0.03
01	2971	Max WS	Tr100_4h	0.57	35.26	36.98		36.98	0.000011	0.08	6.95	7.98	0.03
01	2971	Max WS	Tr100_7h	0.51	35.26	37.02		37.02	0.000008	0.07	7.30	8.25	0.02
01	2971	Max WS	Tr100_12h	0.40	35.26	37.12		37.12	0.000004	0.05	8.13	8.86	0.02
01	2921	Max WS	Tr100_2h	0.55	35.55	36.93		36.93	0.000015	0.09	6.17	7.68	0.03
01	2921	Max WS	Tr100_4h	0.56	35.55	36.98		36.98	0.000013	0.09	6.54	8.00	0.03
01	2921	Max WS	Tr100_7h	0.51	35.55	37.02		37.02	0.000009	0.07	6.89	8.32	0.03
01	2921	Max WS	Tr100_12h	0.40	35.55	37.12		37.12	0.000004	0.05	7.74	9.23	0.02
01	2871	Max WS	Tr100_2h	0.55	34.76	36.93		36.93	0.000006	0.06	8.58	8.34	0.02
01	2871	Max WS	Tr100_4h	0.55	34.76	36.98		36.98	0.000005	0.06	8.97	8.53	0.02
01	2871	Max WS	Tr100_7h	0.51	34.76	37.02		37.02	0.000004	0.05	9.34	8.70	0.02
01	2871	Max WS	Tr100_12h	0.40	34.76	37.12		37.12	0.000002	0.04	10.30	10.28	0.01
01	2821	Max WS	Tr100_2h	0.55	35.15	36.93		36.93	0.000008	0.07	7.45	7.38	0.02
01	2821	Max WS	Tr100_4h	0.55	35.15	36.98		36.98	0.000007	0.07	7.80	7.77	0.02
01	2821	Max WS	Tr100_7h	0.51	35.15	37.02		37.02	0.000006	0.06	8.14	8.13	0.02
01	2821	Max WS	Tr100_12h	0.40	35.15	37.12		37.12	0.000003	0.04	8.98	9.14	0.01
01	2771	Max WS	Tr100_2h	0.55	35.23	36.93	35.53	36.93	0.000012	0.08	6.99	9.06	0.03
01	2771	Max WS	Tr100_4h	0.55	35.23	36.98	35.53	36.98	0.000010	0.07	7.42	9.47	0.03
01	2771	Max WS	Tr100_7h	0.51	35.23	37.02	35.52	37.02	0.000008	0.06	7.84	10.30	0.02
01	2771	Max WS	Tr100_12h	0.49	35.23	37.12	35.51	37.12	0.000005	0.05	9.04	12.66	0.02
01	2755			Bridge									
01	2751	Max WS	Tr100_2h	0.55	35.23	36.93		36.93	0.000012	0.08	6.98	9.06	0.03
01	2751	Max WS	Tr100_4h	0.54	35.23	36.98		36.98	0.000010	0.07	7.41	9.46	0.03
01	2751	Max WS	Tr100_7h	0.51	35.23	37.02		37.02	0.000008	0.06	7.84	10.29	0.02
01	2751	Max WS	Tr100_12h	0.49	35.23	37.12		37.12	0.000005	0.05	9.03	12.66	0.02
01	2750			Lat Struct									
01	2749			Lat Struct									
01	2721	Max WS	Tr100_2h	0.55	35.16	36.93		36.93	0.000005	0.06	9.07	8.13	0.02
01	2721	Max WS	Tr100_4h	0.54	35.16	36.98		36.98	0.000004	0.06	9.45	8.25	0.02
01	2721	Max WS	Tr100_7h	0.51	35.16	37.02		37.02	0.000003	0.05	9.81	8.36	0.02
01	2721	Max WS	Tr100_12h	0.52	35.16	37.12		37.12	0.000003	0.05	10.64	8.61	0.01
01	2671	Max WS	Tr100_2h	0.55	35.16	36.93		36.93	0.000005	0.06	8.62	7.14	0.02
01	2671	Max WS	Tr100_4h	0.54	35.16	36.98		36.98	0.000004	0.06	8.95	7.26	0.02
01	2671	Max WS	Tr100_7h	0.51	35.16	37.02		37.02	0.000003	0.05	9.27	7.38	0.02
01	2671	Max WS	Tr100_12h	0.52	35.16	37.12		37.12	0.000003	0.05	10.01	7.71	0.01
01	2661	Max WS	Tr100_2h	0.55	35.16	36.93	35.42	36.93	0.000005	0.06	8.62	7.14	0.02
01	2661	Max WS	Tr100_4h	0.53	35.16	36.98	35.42	36.98	0.000004	0.06	8.95	7.26	0.02

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2661	Max WS	Tr100_7h	0.51	35.16	37.02	35.41	37.02	0.000003	0.05	9.27	7.38	0.02
01	2661	Max WS	Tr100_12h	0.52	35.16	37.12	35.41	37.12	0.000003	0.05	10.01	7.71	0.01
01	2640		Bridge										
01	2621	Max WS	Tr100_2h	0.55	34.88	36.93		36.93	0.000002	0.05	12.06	8.31	0.01
01	2621	Max WS	Tr100_4h	0.53	34.88	36.98		36.98	0.000002	0.04	12.45	8.40	0.01
01	2621	Max WS	Tr100_7h	0.51	34.88	37.02		37.02	0.000001	0.04	12.82	8.48	0.01
01	2621	Max WS	Tr100_12h	0.52	34.88	37.12		37.12	0.000001	0.04	13.66	8.68	0.01
01	2620		Lat Struct										
01	2619		Lat Struct										
01	2571	Max WS	Tr100_2h	0.55	35.10	36.93		36.93	0.000006	0.06	8.53	8.13	0.02
01	2571	Max WS	Tr100_4h	0.53	35.10	36.98		36.98	0.000005	0.06	8.91	8.26	0.02
01	2571	Max WS	Tr100_7h	0.51	35.10	37.02		37.02	0.000004	0.05	9.27	8.38	0.02
01	2571	Max WS	Tr100_12h	0.52	35.10	37.12		37.12	0.000003	0.05	10.11	8.64	0.02
01	2521	Max WS	Tr100_2h	0.55	35.09	36.93		36.93	0.000003	0.06	9.92	8.05	0.02
01	2521	Max WS	Tr100_4h	0.53	35.09	36.98		36.98	0.000003	0.05	10.29	8.18	0.01
01	2521	Max WS	Tr100_7h	0.50	35.09	37.02		37.02	0.000002	0.05	10.65	8.31	0.01
01	2521	Max WS	Tr100_12h	0.52	35.09	37.12		37.12	0.000002	0.04	11.48	8.61	0.01
01	2471	Max WS	Tr100_2h	0.55	35.03	36.93		36.93	0.000004	0.06	9.50	8.15	0.02
01	2471	Max WS	Tr100_4h	0.53	35.03	36.98		36.98	0.000003	0.05	9.88	8.30	0.02
01	2471	Max WS	Tr100_7h	0.50	35.03	37.02		37.02	0.000003	0.05	10.24	8.43	0.01
01	2471	Max WS	Tr100_12h	0.52	35.03	37.12		37.12	0.000002	0.05	11.09	8.74	0.01
01	2421	Max WS	Tr100_2h	0.55	34.99	36.93		36.93	0.000004	0.06	9.24	7.65	0.02
01	2421	Max WS	Tr100_4h	0.53	34.99	36.98		36.98	0.000003	0.05	9.60	7.76	0.02
01	2421	Max WS	Tr100_7h	0.51	34.99	37.02		37.02	0.000003	0.05	9.94	7.87	0.01
01	2421	Max WS	Tr100_12h	0.52	34.99	37.12		37.12	0.000002	0.05	10.73	8.17	0.01
01	2371	Max WS	Tr100_2h	0.55	34.96	36.93		36.93	0.000003	0.05	10.72	7.94	0.01
01	2371	Max WS	Tr100_4h	0.53	34.96	36.98		36.98	0.000002	0.05	11.10	8.06	0.01
01	2371	Max WS	Tr100_7h	0.51	34.96	37.02		37.02	0.000002	0.04	11.45	8.19	0.01
01	2371	Max WS	Tr100_12h	0.51	34.96	37.12		37.12	0.000002	0.04	12.27	8.53	0.01
01	2321	Max WS	Tr100_2h	0.55	34.96	36.93	35.17	36.93	0.000004	0.06	9.63	7.81	0.02
01	2321	Max WS	Tr100_4h	0.53	34.96	36.98	35.17	36.98	0.000003	0.05	10.00	7.94	0.01
01	2321	Max WS	Tr100_7h	0.51	34.96	37.02	35.16	37.02	0.000003	0.05	10.34	8.05	0.01
01	2321	Max WS	Tr100_12h	0.51	34.96	37.12	35.17	37.12	0.000002	0.05	11.14	8.31	0.01
01	2316		Bridge										
01	2311	Max WS	Tr100_2h	0.55	34.96	36.93		36.93	0.000004	0.06	9.63	7.81	0.02
01	2311	Max WS	Tr100_4h	0.53	34.96	36.98		36.98	0.000003	0.05	10.00	7.94	0.01
01	2311	Max WS	Tr100_7h	0.51	34.96	37.02		37.02	0.000003	0.05	10.34	8.05	0.01
01	2311	Max WS	Tr100_12h	0.51	34.96	37.12		37.12	0.000002	0.05	11.14	8.31	0.01
01	2310		Lat Struct										
01	2309		Lat Struct										
01	2271	Max WS	Tr100_2h	0.55	34.91	36.93		36.93	0.000004	0.06	9.27	7.92	0.02
01	2271	Max WS	Tr100_4h	0.52	34.91	36.98		36.98	0.000003	0.05	9.65	8.10	0.02
01	2271	Max WS	Tr100_7h	0.50	34.91	37.02		37.02	0.000003	0.05	10.00	8.26	0.01
01	2271	Max WS	Tr100_12h	0.51	34.91	37.12		37.12	0.000002	0.05	10.83	8.64	0.01
01	2221	Max WS	Tr100_2h	0.55	35.02	36.93		36.93	0.000003	0.05	10.11	8.20	0.02
01	2221	Max WS	Tr100_4h	0.52	35.02	36.98		36.98	0.000003	0.05	10.50	8.33	0.01
01	2221	Max WS	Tr100_7h	0.51	35.02	37.02		37.02	0.000002	0.05	10.86	8.45	0.01
01	2221	Max WS	Tr100_12h	0.51	35.02	37.12		37.12	0.000002	0.04	11.71	8.74	0.01
01	2201	Max WS	Tr100_2h	0.55	35.07	36.93	35.29	36.93	0.000004	0.06	9.68	7.95	0.02
01	2201	Max WS	Tr100_4h	0.52	35.07	36.98	35.28	36.98	0.000003	0.05	10.06	8.09	0.01
01	2201	Max WS	Tr100_7h	0.51	35.07	37.02	35.28	37.02	0.000003	0.05	10.41	8.21	0.01
01	2201	Max WS	Tr100_12h	0.51	35.07	37.12	35.28	37.12	0.000002	0.05	11.23	8.55	0.01
01	2196		Bridge										
01	2191	Max WS	Tr100_2h	0.55	35.07	36.93		36.93	0.000004	0.06	9.68	7.95	0.02
01	2191	Max WS	Tr100_4h	0.52	35.07	36.98		36.98	0.000003	0.05	10.06	8.09	0.01
01	2191	Max WS	Tr100_7h	0.50	35.07	37.02		37.02	0.000003	0.05	10.41	8.21	0.01
01	2191	Max WS	Tr100_12h	0.51	35.07	37.12		37.12	0.000002	0.05	11.23	8.55	0.01
01	2190		Lat Struct										
01	2189		Lat Struct										
01	2171	Max WS	Tr100_2h	0.55	35.15	36.93		36.93	0.000004	0.06	9.01	7.64	0.02
01	2171	Max WS	Tr100_4h	0.52	35.15	36.98		36.98	0.000003	0.06	9.38	7.78	0.02
01	2171	Max WS	Tr100_7h	0.51	35.15	37.02		37.02	0.000003	0.05	9.71	7.91	0.01
01	2171	Max WS	Tr100_12h	0.51	35.15	37.12		37.12	0.000003	0.05	10.51	8.21	0.01
01	2169		Lat Struct										
01	2131	Max WS	Tr100_2h	0.55	35.00	36.93	35.53	36.93	0.000017	0.09	5.77	6.84	0.03
01	2131	Max WS	Tr100_4h	0.51	35.00	36.98	35.52	36.98	0.000013	0.08	6.10	7.02	0.03
01	2131	Max WS	Tr100_7h	0.51	35.00	37.02	35.51	37.02	0.000011	0.08	6.41	7.20	0.03

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2131	Max WS	Tr100_12h	0.51	35.00	37.12	35.52	37.12	0.000009	0.07	7.13	7.58	0.02
01	2126			Bridge									
01	2121	Max WS	Tr100_2h	0.55	35.00	36.93		36.93	0.000017	0.09	5.77	6.84	0.03
01	2121	Max WS	Tr100_4h	0.51	35.00	36.98		36.98	0.000013	0.08	6.10	7.02	0.03
01	2121	Max WS	Tr100_7h	0.50	35.00	37.02		37.02	0.000011	0.08	6.40	7.19	0.03
01	2121	Max WS	Tr100_12h	0.51	35.00	37.12		37.12	0.000009	0.07	7.13	7.58	0.02
01	2120			Lat Struct									
01	2119			Lat Struct									
01	2071	Max WS	Tr100_2h	0.55	34.78	36.93		36.93	0.000002	0.04	12.16	9.18	0.01
01	2071	Max WS	Tr100_4h	0.51	34.78	36.98		36.98	0.000002	0.04	12.60	9.34	0.01
01	2071	Max WS	Tr100_7h	0.51	34.78	37.02		37.02	0.000001	0.04	13.00	9.48	0.01
01	2071	Max WS	Tr100_12h	0.51	34.78	37.12		37.12	0.000001	0.04	13.95	9.80	0.01
01	2021	Max WS	Tr100_2h	0.54	34.83	36.93		36.93	0.000002	0.04	12.69	9.52	0.01
01	2021	Max WS	Tr100_4h	0.51	34.83	36.98		36.98	0.000001	0.04	13.15	9.63	0.01
01	2021	Max WS	Tr100_7h	0.51	34.83	37.02		37.02	0.000001	0.04	13.56	9.73	0.01
01	2021	Max WS	Tr100_12h	0.51	34.83	37.12		37.12	0.000001	0.04	14.53	9.98	0.01
01	1971	Max WS	Tr100_2h	0.54	34.78	36.93		36.93	0.000001	0.03	15.74	12.87	0.01
01	1971	Max WS	Tr100_4h	0.51	34.78	36.98		36.98	0.000001	0.03	16.35	13.01	0.01
01	1971	Max WS	Tr100_7h	0.50	34.78	37.02		37.02	0.000001	0.03	16.91	13.14	0.01
01	1971	Max WS	Tr100_12h	0.51	34.78	37.12		37.12	0.000001	0.03	18.22	13.42	0.01
01	1921	Max WS	Tr100_2h	0.54	34.72	36.93	34.95	36.93	0.000001	0.03	16.03	12.40	0.01
01	1921	Max WS	Tr100_4h	0.51	34.72	36.98	34.94	36.98	0.000001	0.03	16.62	12.52	0.01
01	1921	Max WS	Tr100_7h	0.50	34.72	37.02	34.94	37.02	0.000001	0.03	17.16	12.63	0.01
01	1921	Max WS	Tr100_12h	0.51	34.72	37.12	34.94	37.12	0.000001	0.03	18.41	12.93	0.01
01	1900			Bridge									
01	1871	Max WS	Tr100_2h	0.54	34.79	36.93		36.93	0.000002	0.04	12.04	8.85	0.01
01	1871	Max WS	Tr100_4h	0.51	34.79	36.98		36.98	0.000002	0.04	12.46	9.04	0.01
01	1871	Max WS	Tr100_7h	0.50	34.79	37.02		37.02	0.000001	0.04	12.86	9.19	0.01
01	1871	Max WS	Tr100_12h	0.51	34.79	37.12		37.12	0.000001	0.04	13.77	9.48	0.01
01	1870			Lat Struct									
01	1869			Lat Struct									
01	1821	Max WS	Tr100_2h	0.54	34.79	36.93		36.93	0.000002	0.04	12.51	9.66	0.01
01	1821	Max WS	Tr100_4h	0.51	34.79	36.98		36.98	0.000002	0.04	12.97	9.81	0.01
01	1821	Max WS	Tr100_7h	0.50	34.79	37.02		37.02	0.000001	0.04	13.40	9.99	0.01
01	1821	Max WS	Tr100_12h	0.51	34.79	37.12		37.12	0.000001	0.04	14.40	10.40	0.01
01	1771	Max WS	Tr100_2h	0.54	34.83	36.93		36.93	0.000002	0.05	11.93	8.86	0.01
01	1771	Max WS	Tr100_4h	0.51	34.83	36.98		36.98	0.000002	0.04	12.35	9.06	0.01
01	1771	Max WS	Tr100_7h	0.50	34.83	37.02		37.02	0.000001	0.04	12.75	9.24	0.01
01	1771	Max WS	Tr100_12h	0.51	34.83	37.12		37.12	0.000001	0.04	13.68	9.75	0.01
01	1721	Max WS	Tr100_2h	0.54	34.75	36.93		36.93	0.000002	0.04	12.36	9.30	0.01
01	1721	Max WS	Tr100_4h	0.51	34.75	36.98		36.98	0.000002	0.04	12.81	9.51	0.01
01	1721	Max WS	Tr100_7h	0.50	34.75	37.02		37.02	0.000001	0.04	13.22	9.70	0.01
01	1721	Max WS	Tr100_12h	0.51	34.75	37.12		37.12	0.000001	0.04	14.20	10.13	0.01
01	1671	Max WS	Tr100_2h	0.54	34.76	36.93	35.00	36.93	0.000002	0.04	12.18	8.81	0.01
01	1671	Max WS	Tr100_4h	0.51	34.76	36.98	34.99	36.98	0.000002	0.04	12.61	8.92	0.01
01	1671	Max WS	Tr100_7h	0.50	34.76	37.02	34.99	37.02	0.000001	0.04	12.99	9.02	0.01
01	1671	Max WS	Tr100_12h	0.51	34.76	37.12	34.99	37.12	0.000001	0.04	13.89	9.25	0.01
01	1666			Bridge									
01	1661	Max WS	Tr100_2h	0.54	34.76	36.93		36.93	0.000002	0.04	12.18	8.81	0.01
01	1661	Max WS	Tr100_4h	0.51	34.76	36.98		36.98	0.000002	0.04	12.61	8.92	0.01
01	1661	Max WS	Tr100_7h	0.50	34.76	37.02		37.02	0.000001	0.04	12.99	9.02	0.01
01	1661	Max WS	Tr100_12h	0.51	34.76	37.12		37.12	0.000001	0.04	13.89	9.25	0.01
01	1660			Lat Struct									
01	1659			Lat Struct									
01	1621	Max WS	Tr100_2h	0.54	34.74	36.93		36.93	0.000002	0.04	12.33	9.40	0.01
01	1621	Max WS	Tr100_4h	0.51	34.74	36.98		36.98	0.000002	0.04	12.78	9.57	0.01
01	1621	Max WS	Tr100_7h	0.50	34.74	37.02		37.02	0.000001	0.04	13.20	9.73	0.01
01	1621	Max WS	Tr100_12h	0.51	34.74	37.12		37.12	0.000001	0.04	14.18	10.11	0.01
01	1571	Max WS	Tr100_2h	0.53	34.74	36.93		36.93	0.000002	0.04	13.07	10.55	0.01
01	1571	Max WS	Tr100_4h	0.51	34.74	36.98		36.98	0.000001	0.04	13.58	10.94	0.01
01	1571	Max WS	Tr100_7h	0.50	34.74	37.02		37.02	0.000001	0.04	14.06	11.27	0.01
01	1571	Max WS	Tr100_12h	0.51	34.74	37.12		37.12	0.000001	0.03	15.20	11.95	0.01
01	1521	Max WS	Tr100_2h	0.53	34.78	36.93		36.93	0.000001	0.04	13.75	9.99	0.01
01	1521	Max WS	Tr100_4h	0.51	34.78	36.98		36.98	0.000001	0.04	14.23	10.11	0.01
01	1521	Max WS	Tr100_7h	0.50	34.78	37.02		37.02	0.000001	0.03	14.66	10.22	0.01
01	1521	Max WS	Tr100_12h	0.51	34.78	37.12		37.12	0.000001	0.03	15.68	10.47	0.01
01	1471	Max WS	Tr100_2h	0.53	34.76	36.93		36.93	0.000002	0.04	12.30	9.63	0.01

HEC-RAS River: Colecchio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1471	Max WS	Tr100_4h	0.51	34.76	36.98		36.98	0.000002	0.04	12.76	9.79	0.01
01	1471	Max WS	Tr100_7h	0.50	34.76	37.02		37.02	0.000001	0.04	13.19	9.94	0.01
01	1471	Max WS	Tr100_12h	0.51	34.76	37.12		37.12	0.000001	0.04	14.18	10.28	0.01
01	1421	Max WS	Tr100_2h	0.53	34.76	36.93	34.97	36.93	0.000002	0.05	11.75	8.86	0.01
01	1421	Max WS	Tr100_4h	0.51	34.76	36.98	34.96	36.98	0.000002	0.04	12.17	8.98	0.01
01	1421	Max WS	Tr100_7h	0.50	34.76	37.02	34.96	37.02	0.000002	0.04	12.56	9.08	0.01
01	1421	Max WS	Tr100_12h	0.51	34.76	37.12	34.96	37.12	0.000001	0.04	13.47	9.33	0.01
01	1416			Bridge									
01	1411	Max WS	Tr100_2h	0.53	34.76	36.93		36.93	0.000002	0.05	11.75	8.86	0.01
01	1411	Max WS	Tr100_4h	0.50	34.76	36.98		36.98	0.000002	0.04	12.17	8.98	0.01
01	1411	Max WS	Tr100_7h	0.50	34.76	37.02		37.02	0.000002	0.04	12.56	9.08	0.01
01	1411	Max WS	Tr100_12h	0.51	34.76	37.12		37.12	0.000001	0.04	13.47	9.33	0.01
01	1410			Lat Struct									
01	1409			Lat Struct									
01	1371	Max WS	Tr100_2h	0.53	34.72	36.93		36.93	0.000002	0.04	13.10	9.64	0.01
01	1371	Max WS	Tr100_4h	0.50	34.72	36.98		36.98	0.000001	0.04	13.57	10.03	0.01
01	1371	Max WS	Tr100_7h	0.50	34.72	37.02		37.02	0.000001	0.04	14.01	10.38	0.01
01	1371	Max WS	Tr100_12h	0.51	34.72	37.12		37.12	0.000001	0.03	15.06	11.06	0.01
01	1321	Max WS	Tr100_2h	0.53	34.66	36.93		36.93	0.000001	0.04	14.85	10.44	0.01
01	1321	Max WS	Tr100_4h	0.50	34.66	36.98		36.98	0.000001	0.03	15.35	10.63	0.01
01	1321	Max WS	Tr100_7h	0.50	34.66	37.02		37.02	0.000001	0.03	15.81	10.80	0.01
01	1321	Max WS	Tr100_12h	0.51	34.66	37.12		37.12	0.000001	0.03	16.89	11.19	0.01
01	1320			Lat Struct									
01	1271	Max WS	Tr100_2h	0.53	34.62	36.93		36.93	0.000001	0.04	14.05	10.57	0.01
01	1271	Max WS	Tr100_4h	0.50	34.62	36.98		36.98	0.000001	0.03	14.55	10.72	0.01
01	1271	Max WS	Tr100_7h	0.50	34.62	37.02		37.02	0.000001	0.03	15.02	10.86	0.01
01	1271	Max WS	Tr100_12h	0.51	34.62	37.12		37.12	0.000001	0.03	16.10	11.17	0.01
01	1221	Max WS	Tr100_2h	0.53	34.67	36.93		36.93	0.000001	0.04	14.68	10.66	0.01
01	1221	Max WS	Tr100_4h	0.50	34.67	36.98		36.98	0.000001	0.03	15.19	10.81	0.01
01	1221	Max WS	Tr100_7h	0.50	34.67	37.02		37.02	0.000001	0.03	15.66	10.97	0.01
01	1221	Max WS	Tr100_12h	0.51	34.67	37.12		37.12	0.000001	0.03	16.76	11.33	0.01
01	1171	Max WS	Tr100_2h	0.52	34.66	36.93		36.93	0.000001	0.04	14.29	10.41	0.01
01	1171	Max WS	Tr100_4h	0.50	34.66	36.98		36.98	0.000001	0.03	14.79	10.58	0.01
01	1171	Max WS	Tr100_7h	0.50	34.66	37.02		37.02	0.000001	0.03	15.25	10.74	0.01
01	1171	Max WS	Tr100_12h	0.51	34.66	37.12		37.12	0.000001	0.03	16.33	11.32	0.01
01	1121	Max WS	Tr100_2h	0.52	34.57	36.93	34.78	36.93	0.000001	0.04	14.28	9.22	0.01
01	1121	Max WS	Tr100_4h	0.50	34.57	36.98	34.77	36.98	0.000001	0.03	14.73	9.37	0.01
01	1121	Max WS	Tr100_7h	0.50	34.57	37.02	34.77	37.02	0.000001	0.03	15.14	9.50	0.01
01	1121	Max WS	Tr100_12h	0.51	34.57	37.12	34.77	37.12	0.000001	0.03	16.09	9.81	0.01
01	1115			Bridge									
01	1096	Max WS	Tr100_2h	0.52	34.57	36.93		36.93	0.000001	0.04	14.28	9.22	0.01
01	1096	Max WS	Tr100_4h	0.50	34.57	36.98		36.98	0.000001	0.03	14.73	9.37	0.01
01	1096	Max WS	Tr100_7h	0.50	34.57	37.02		37.02	0.000001	0.03	15.14	9.50	0.01
01	1096	Max WS	Tr100_12h	0.51	34.57	37.12		37.12	0.000001	0.03	16.08	9.81	0.01
01	1094			Lat Struct									
01	1093			Lat Struct									
01	1071	Max WS	Tr100_2h	0.52	34.58	36.93		36.93	0.000002	0.04	13.32	10.40	0.01
01	1071	Max WS	Tr100_4h	0.50	34.58	36.98		36.98	0.000001	0.04	13.82	10.64	0.01
01	1071	Max WS	Tr100_7h	0.50	34.58	37.02		37.02	0.000001	0.04	14.28	10.84	0.01
01	1071	Max WS	Tr100_12h	0.51	34.58	37.12		37.12	0.000001	0.03	15.37	11.25	0.01
01	1021	Max WS	Tr100_2h	0.52	34.59	36.93		36.93	0.000002	0.04	13.06	10.24	0.01
01	1021	Max WS	Tr100_4h	0.50	34.59	36.97		36.98	0.000001	0.04	13.55	10.39	0.01
01	1021	Max WS	Tr100_7h	0.50	34.59	37.02		37.02	0.000001	0.04	14.00	10.53	0.01
01	1021	Max WS	Tr100_12h	0.51	34.59	37.12		37.12	0.000001	0.03	15.06	10.84	0.01
01	971	Max WS	Tr100_2h	0.52	34.60	36.93		36.93	0.000002	0.04	13.03	10.41	0.01
01	971	Max WS	Tr100_4h	0.50	34.60	36.97		36.98	0.000001	0.04	13.54	10.54	0.01
01	971	Max WS	Tr100_7h	0.50	34.60	37.02		37.02	0.000001	0.04	13.99	10.65	0.01
01	971	Max WS	Tr100_12h	0.51	34.60	37.12		37.12	0.000001	0.03	15.05	10.90	0.01
01	921	Max WS	Tr100_2h	0.52	34.45	36.93		36.93	0.000002	0.04	12.76	9.84	0.01
01	921	Max WS	Tr100_4h	0.50	34.45	36.97		36.98	0.000001	0.04	13.24	10.15	0.01
01	921	Max WS	Tr100_7h	0.50	34.45	37.02		37.02	0.000001	0.04	13.68	10.33	0.01
01	921	Max WS	Tr100_12h	0.51	34.45	37.12		37.12	0.000001	0.03	14.71	10.69	0.01
01	871	Max WS	Tr100_2h	0.52	34.57	36.93		36.93	0.000001	0.04	13.43	9.53	0.01
01	871	Max WS	Tr100_4h	0.50	34.57	36.97		36.98	0.000001	0.04	13.89	9.69	0.01
01	871	Max WS	Tr100_7h	0.50	34.57	37.02		37.02	0.000001	0.04	14.31	9.84	0.01
01	871	Max WS	Tr100_12h	0.51	34.57	37.12		37.12	0.000001	0.03	15.30	10.35	0.01
01	856	Max WS	Tr100_2h	0.52	34.57	36.93	34.84	36.93	0.000001	0.04	13.43	9.53	0.01
01	856	Max WS	Tr100_4h	0.50	34.57	36.97	34.84	36.98	0.000001	0.04	13.89	9.69	0.01
01	856	Max WS	Tr100_7h	0.50	34.57	37.02	34.84	37.02	0.000001	0.04	14.31	9.84	0.01

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	856	Max WS	Tr100_12h	0.51	34.57	37.12	34.84	37.12	0.000001	0.03	15.30	10.35	0.01
01	830			Bridge									
01	806	Max WS	Tr100_2h	0.52	34.57	36.93		36.93	0.000001	0.04	13.42	9.52	0.01
01	806	Max WS	Tr100_4h	0.50	34.57	36.97		36.97	0.000001	0.04	13.88	9.69	0.01
01	806	Max WS	Tr100_7h	0.50	34.57	37.02		37.02	0.000001	0.04	14.30	9.83	0.01
01	806	Max WS	Tr100_12h	0.51	34.57	37.12		37.12	0.000001	0.03	15.29	10.34	0.01
01	805			Lat Struct									
01	804			Lat Struct									
01	771	Max WS	Tr100_2h	0.52	34.33	36.93		36.93	0.000001	0.03	14.94	9.80	0.01
01	771	Max WS	Tr100_4h	0.50	34.33	36.97		36.97	0.000001	0.03	15.41	9.91	0.01
01	771	Max WS	Tr100_7h	0.50	34.33	37.02		37.02	0.000001	0.03	15.84	10.00	0.01
01	771	Max WS	Tr100_12h	0.51	34.33	37.12		37.12	0.000001	0.03	16.84	10.22	0.01
01	721	Max WS	Tr100_2h	0.51	34.31	36.93	34.64	36.93	0.000001	0.04	14.06	8.93	0.01
01	721	Max WS	Tr100_4h	0.50	34.31	36.97	34.64	36.97	0.000001	0.03	14.49	9.07	0.01
01	721	Max WS	Tr100_7h	0.50	34.31	37.02	34.64	37.02	0.000001	0.03	14.88	9.20	0.01
01	721	Max WS	Tr100_12h	0.51	34.31	37.12	34.64	37.12	0.000001	0.03	15.80	9.50	0.01
01	690			Bridge									
01	681	Max WS	Tr100_2h	0.51	34.31	36.93		36.93	0.000001	0.04	14.06	8.93	0.01
01	681	Max WS	Tr100_4h	0.50	34.31	36.97		36.97	0.000001	0.03	14.49	9.07	0.01
01	681	Max WS	Tr100_7h	0.50	34.31	37.02		37.02	0.000001	0.03	14.88	9.20	0.01
01	681	Max WS	Tr100_12h	0.51	34.31	37.11		37.11	0.000001	0.03	15.80	9.50	0.01
01	680			Lat Struct									
01	679			Lat Struct									
01	671	Max WS	Tr100_2h	0.51	34.38	36.93		36.93	0.000001	0.04	14.57	9.83	0.01
01	671	Max WS	Tr100_4h	0.50	34.38	36.97		36.97	0.000001	0.03	15.04	9.95	0.01
01	671	Max WS	Tr100_7h	0.50	34.38	37.02		37.02	0.000001	0.03	15.47	10.07	0.01
01	671	Max WS	Tr100_12h	0.51	34.38	37.11		37.11	0.000001	0.03	16.48	10.32	0.01
01	621	Max WS	Tr100_2h	0.51	34.37	36.93		36.93	0.000001	0.03	14.86	10.34	0.01
01	621	Max WS	Tr100_4h	0.50	34.37	36.97		36.97	0.000001	0.03	15.36	10.50	0.01
01	621	Max WS	Tr100_7h	0.50	34.37	37.02		37.02	0.000001	0.03	15.82	10.64	0.01
01	621	Max WS	Tr100_12h	0.51	34.37	37.11		37.11	0.000001	0.03	16.88	10.99	0.01
01	571	Max WS	Tr100_2h	0.51	34.16	36.93	34.54	36.93	0.000001	0.04	13.74	8.57	0.01
01	571	Max WS	Tr100_4h	0.50	34.16	36.97	34.54	36.97	0.000001	0.04	14.16	8.72	0.01
01	571	Max WS	Tr100_7h	0.50	34.16	37.02	34.54	37.02	0.000001	0.03	14.53	8.84	0.01
01	571	Max WS	Tr100_12h	0.51	34.16	37.11	34.54	37.11	0.000001	0.03	15.42	9.23	0.01
01	566			Bridge									
01	561	Max WS	Tr100_2h	0.51	34.16	36.93		36.93	0.000001	0.04	13.74	8.57	0.01
01	561	Max WS	Tr100_4h	0.50	34.16	36.97		36.97	0.000001	0.04	14.16	8.72	0.01
01	561	Max WS	Tr100_7h	0.50	34.16	37.02		37.02	0.000001	0.03	14.53	8.84	0.01
01	561	Max WS	Tr100_12h	0.51	34.16	37.11		37.11	0.000001	0.03	15.42	9.23	0.01
01	560			Lat Struct									
01	559			Lat Struct									
01	521	Max WS	Tr100_2h	0.51	34.08	36.93		36.93	0.000001	0.03	16.25	9.96	0.01
01	521	Max WS	Tr100_4h	0.50	34.08	36.97		36.97	0.000001	0.03	16.73	10.14	0.01
01	521	Max WS	Tr100_7h	0.50	34.08	37.02		37.02	0.000001	0.03	17.17	10.30	0.01
01	521	Max WS	Tr100_12h	0.51	34.08	37.11		37.11	0.000001	0.03	18.21	10.71	0.01
01	471	Max WS	Tr100_2h	0.51	34.06	36.93		36.93	0.000001	0.03	16.31	10.16	0.01
01	471	Max WS	Tr100_4h	0.50	34.06	36.97		36.97	0.000001	0.03	16.81	10.38	0.01
01	471	Max WS	Tr100_7h	0.50	34.06	37.02		37.02	0.000001	0.03	17.26	10.57	0.01
01	471	Max WS	Tr100_12h	0.51	34.06	37.11		37.11	0.000001	0.03	18.32	10.98	0.01
01	421	Max WS	Tr100_2h	0.51	34.23	36.93		36.93	0.000001	0.03	16.21	10.35	0.01
01	421	Max WS	Tr100_4h	0.50	34.23	36.97		36.97	0.000001	0.03	16.71	10.50	0.01
01	421	Max WS	Tr100_7h	0.50	34.23	37.02		37.02	0.000001	0.03	17.17	10.64	0.01
01	421	Max WS	Tr100_12h	0.51	34.23	37.11		37.11	0.000001	0.03	18.23	10.95	0.01
01	371	Max WS	Tr100_2h	0.50	34.07	36.93		36.93	0.000001	0.03	17.19	10.96	0.01
01	371	Max WS	Tr100_4h	0.50	34.07	36.97		36.97	0.000001	0.03	17.73	11.11	0.01
01	371	Max WS	Tr100_7h	0.50	34.07	37.02		37.02	0.000001	0.03	18.20	11.24	0.01
01	371	Max WS	Tr100_12h	0.51	34.07	37.11		37.11	0.000001	0.03	19.33	11.60	0.01
01	321	Max WS	Tr100_2h	0.50	33.98	36.92		36.92	0.000001	0.03	17.06	10.36	0.01
01	321	Max WS	Tr100_4h	0.50	33.98	36.97		36.97	0.000001	0.03	17.57	10.50	0.01
01	321	Max WS	Tr100_7h	0.50	33.98	37.02		37.02	0.000001	0.03	18.02	10.62	0.01
01	321	Max WS	Tr100_12h	0.51	33.98	37.11		37.11	0.000001	0.03	19.09	10.96	0.01
01	271	Max WS	Tr100_2h	0.50	33.94	36.92		36.92	0.000001	0.03	16.25	11.14	0.01
01	271	Max WS	Tr100_4h	0.50	33.94	36.97		36.97	0.000001	0.03	16.80	11.31	0.01
01	271	Max WS	Tr100_7h	0.50	33.94	37.02		37.02	0.000001	0.03	17.28	11.43	0.01
01	271	Max WS	Tr100_12h	0.51	33.94	37.11		37.11	0.000001	0.03	18.42	11.70	0.01
01	221	Max WS	Tr100_2h	0.50	34.00	36.92		36.92	0.000001	0.03	17.56	11.01	0.01

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	221	Max WS	Tr100_4h	0.50	34.00	36.97		36.97	0.000001	0.03	18.09	11.13	0.01
01	221	Max WS	Tr100_7h	0.50	34.00	37.02		37.02	0.000001	0.03	18.57	11.23	0.01
01	221	Max WS	Tr100_12h	0.51	34.00	37.11		37.11	0.000001	0.03	19.69	11.49	0.01
01	171	Max WS	Tr100_2h	0.50	34.10	36.92		36.92	0.000001	0.03	16.22	10.38	0.01
01	171	Max WS	Tr100_4h	0.50	34.10	36.97		36.97	0.000001	0.03	16.73	10.50	0.01
01	171	Max WS	Tr100_7h	0.50	34.10	37.02		37.02	0.000001	0.03	17.22	11.61	0.01
01	171	Max WS	Tr100_12h	0.51	34.10	37.11		37.11	0.000001	0.03	18.37	11.89	0.01
01	121	Max WS	Tr100_2h	0.50	33.92	36.92		36.92	0.000001	0.03	15.49	10.12	0.01
01	121	Max WS	Tr100_4h	0.50	33.92	36.97		36.97	0.000001	0.03	15.98	10.25	0.01
01	121	Max WS	Tr100_7h	0.50	33.92	37.02		37.02	0.000001	0.03	16.42	10.37	0.01
01	121	Max WS	Tr100_12h	0.51	33.92	37.11		37.11	0.000001	0.03	17.46	10.64	0.01
01	71	Max WS	Tr100_2h	0.49	33.83	36.92	34.02	36.92	0.000000	0.02	20.18	9.22	0.01
01	71	Max WS	Tr100_4h	0.50	33.83	36.97	34.02	36.97	0.000000	0.02	20.64	10.36	0.01
01	71	Max WS	Tr100_7h	0.50	33.83	37.02	34.02	37.02	0.000000	0.02	21.08	10.49	0.01
01	71	Max WS	Tr100_12h	0.51	33.83	37.11	34.02	37.11	0.000000	0.02	22.13	10.79	0.01
01	69			Inl Struct									
01	66	Max WS	Tr100_2h	0.49	33.00	33.61		33.62	0.001052	0.47	1.05	2.46	0.23
01	66	Max WS	Tr100_4h	0.50	33.00	33.61		33.62	0.001050	0.47	1.06	2.46	0.23
01	66	Max WS	Tr100_7h	0.50	33.00	33.61		33.63	0.001048	0.47	1.07	2.47	0.23
01	66	Max WS	Tr100_12h	0.51	33.00	33.62		33.63	0.001044	0.47	1.08	2.49	0.23
01	21	Max WS	Tr100_2h	0.49	32.86	33.56	33.18	33.57	0.001006	0.47	1.05	2.23	0.22
01	21	Max WS	Tr100_4h	0.50	32.86	33.56	33.18	33.58	0.001007	0.47	1.06	2.23	0.22
01	21	Max WS	Tr100_7h	0.50	32.86	33.57	33.18	33.58	0.001006	0.47	1.06	2.24	0.22
01	21	Max WS	Tr100_12h	0.51	32.86	33.57	33.18	33.59	0.001007	0.48	1.08	2.25	0.22

HEC-RAS River: Colecchio Reach: 01 Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	7371	Max WS	Tr200_2h	5.25	39.96	41.29		41.34	0.001659	1.08	5.96	9.00	0.35
01	7371	Max WS	Tr200_4h	6.70	39.96	41.38		41.44	0.001867	1.21	6.78	9.00	0.38
01	7371	Max WS	Tr200_7h	5.31	39.96	41.29		41.35	0.001664	1.08	6.00	9.00	0.35
01	7371	Max WS	Tr200_12h	3.83	39.96	41.16		41.20	0.001635	0.97	4.77	9.00	0.34
01	7321	Max WS	Tr200_2h	5.25	39.81	40.80		41.01	0.014910	2.05	2.56	5.00	0.91
01	7321	Max WS	Tr200_4h	6.68	39.81	40.87	40.85	41.13	0.015947	2.28	2.93	5.00	0.95
01	7321	Max WS	Tr200_7h	5.31	39.81	40.80		41.01	0.014961	2.06	2.58	5.00	0.92
01	7321	Max WS	Tr200_12h	3.83	39.81	40.72		40.87	0.012764	1.77	2.17	4.78	0.84
01	7320			Lat Struct									
01	7319			Lat Struct									
01	7271	Max WS	Tr200_2h	2.27	39.62	40.46		40.54	0.007154	1.25	1.90	5.30	0.63
01	7271	Max WS	Tr200_4h	2.50	39.62	40.47		40.56	0.008219	1.36	1.94	5.32	0.67
01	7271	Max WS	Tr200_7h	2.30	39.62	40.46		40.54	0.007422	1.27	1.89	5.30	0.64
01	7271	Max WS	Tr200_12h	1.95	39.62	40.44		40.51	0.005973	1.12	1.82	5.27	0.57
01	7221	Max WS	Tr200_2h	0.90	39.75	40.33		40.35	0.003123	0.69	1.53	7.76	0.40
01	7221	Max WS	Tr200_4h	0.93	39.75	40.34		40.36	0.003002	0.69	1.60	7.78	0.40
01	7221	Max WS	Tr200_7h	0.90	39.75	40.33		40.35	0.003108	0.69	1.54	7.76	0.40
01	7221	Max WS	Tr200_12h	0.84	39.75	40.31		40.34	0.003504	0.71	1.40	7.71	0.43
01	7171	Max WS	Tr200_2h	0.77	39.37	40.25		40.26	0.000879	0.44	1.99	7.78	0.22
01	7171	Max WS	Tr200_4h	0.67	39.37	40.27		40.28	0.000527	0.35	2.18	8.01	0.17
01	7171	Max WS	Tr200_7h	0.76	39.37	40.25		40.26	0.000847	0.43	2.00	7.80	0.21
01	7171	Max WS	Tr200_12h	0.81	39.37	40.20		40.22	0.001400	0.53	1.66	6.80	0.27
01	7121	Max WS	Tr200_2h	0.77	39.39	40.20		40.21	0.001061	0.46	1.67	5.16	0.24
01	7121	Max WS	Tr200_4h	0.66	39.39	40.25		40.25	0.000555	0.35	1.98	8.51	0.18
01	7121	Max WS	Tr200_7h	0.76	39.39	40.20		40.21	0.001009	0.45	1.69	5.27	0.24
01	7121	Max WS	Tr200_12h	0.81	39.39	40.11		40.13	0.002278	0.64	1.27	3.69	0.35
01	7071	Max WS	Tr200_2h	0.71	39.26	40.17		40.18	0.000313	0.29	2.96	18.78	0.14
01	7071	Max WS	Tr200_4h	0.23	39.26	40.25		40.25	0.000015	0.07	4.33	19.00	0.03
01	7071	Max WS	Tr200_7h	0.70	39.26	40.18		40.18	0.000281	0.28	3.08	18.99	0.13
01	7071	Max WS	Tr200_12h	0.81	39.26	40.03		40.04	0.001269	0.50	1.62	4.37	0.26
01	7021	Max WS	Tr200_2h	0.62	39.43	40.17		40.17	0.000090	0.17	4.34	11.40	0.08
01	7021	Max WS	Tr200_4h	0.74	39.43	40.25		40.25	0.000078	0.17	5.24	11.86	0.07
01	7021	Max WS	Tr200_7h	0.66	39.43	40.18		40.18	0.000096	0.18	4.41	11.44	0.08
01	7021	Max WS	Tr200_12h	0.81	39.43	39.98		39.99	0.000749	0.41	2.28	10.81	0.21
01	6971	Max WS	Tr200_2h	0.37	39.04	40.17		40.17	0.000028	0.11	3.41	5.00	0.04
01	6971	Max WS	Tr200_4h	0.32	39.04	40.24		40.24	0.000015	0.09	3.80	5.00	0.03
01	6971	Max WS	Tr200_7h	0.37	39.04	40.17		40.17	0.000027	0.11	3.44	5.00	0.04
01	6971	Max WS	Tr200_12h	0.16	39.04	39.98		39.98	0.000014	0.07	2.48	5.00	0.03
01	6921	Max WS	Tr200_2h	0.72	38.90	40.16		40.16	0.000029	0.12	7.28	14.00	0.04
01	6921	Max WS	Tr200_4h	1.11	38.90	40.24		40.24	0.000045	0.15	8.37	14.00	0.06
01	6921	Max WS	Tr200_7h	0.76	38.90	40.17		40.17	0.000031	0.12	7.37	14.00	0.05
01	6921	Max WS	Tr200_12h	0.26	38.90	39.98		39.98	0.000012	0.06	4.73	14.00	0.03
01	6880			Lat Struct									
01	6879			Lat Struct									
01	6871	Max WS	Tr200_2h	0.53	39.12	40.16		40.16	0.000063	0.16	3.77	9.00	0.06
01	6871	Max WS	Tr200_4h	0.83	39.12	40.24		40.24	0.000100	0.21	4.47	9.00	0.08
01	6871	Max WS	Tr200_7h	0.55	39.12	40.17		40.17	0.000067	0.16	3.83	9.00	0.06
01	6871	Max WS	Tr200_12h	0.10	39.12	39.98		39.98	0.000008	0.05	2.24	4.76	0.02
01	6821	Max WS	Tr200_2h	0.14	39.03	40.16		40.16	0.000004	0.04	3.73	7.00	0.02
01	6821	Max WS	Tr200_4h	0.76	39.03	40.24		40.24	0.000079	0.19	4.27	7.00	0.07
01	6821	Max WS	Tr200_7h	0.15	39.03	40.17		40.17	0.000004	0.04	3.77	7.00	0.02
01	6821	Max WS	Tr200_12h	0.08	39.03	39.98		39.98	0.000004	0.03	2.45	6.51	0.01
01	6820			Lat Struct									
01	6819			Lat Struct									
01	6771	Max WS	Tr200_2h	0.42	38.78	40.16		40.16	0.000013	0.09	6.54	14.00	0.03
01	6771	Max WS	Tr200_4h	0.74	38.78	40.24		40.24	0.000025	0.13	7.63	14.00	0.04
01	6771	Max WS	Tr200_7h	0.45	38.78	40.17		40.17	0.000014	0.09	6.63	14.00	0.03
01	6771	Max WS	Tr200_12h	0.01	38.78	39.98		39.98	0.000000	0.00	3.96	14.00	0.00
01	6721	Max WS	Tr200_2h	0.07	38.83	40.16		40.16	0.000000	0.01	7.17	13.00	0.00
01	6721	Max WS	Tr200_4h	0.60	38.83	40.24		40.24	0.000013	0.09	8.18	13.00	0.03
01	6721	Max WS	Tr200_7h	0.10	38.83	40.17		40.17	0.000001	0.02	7.26	13.00	0.01
01	6721	Max WS	Tr200_12h	-0.05	38.83	39.98		39.98	0.000000	-0.01	4.78	13.00	0.01
01	6671	Max WS	Tr200_2h	0.16	39.04	40.16		40.16	0.000003	0.04	4.92	8.00	0.01
01	6671	Max WS	Tr200_4h	0.40	39.04	40.24		40.24	0.000012	0.08	5.54	8.00	0.03
01	6671	Max WS	Tr200_7h	0.24	39.04	40.17		40.17	0.000006	0.05	4.97	8.00	0.02
01	6671	Max WS	Tr200_12h	-0.06	39.04	39.98		39.98	0.000001	-0.02	3.45	8.00	0.01
01	6621	Max WS	Tr200_2h	-0.02	38.92	40.16		40.16	0.000000	-0.01	3.37	6.00	0.00
01	6621	Max WS	Tr200_4h	-0.27	38.92	40.24		40.24	0.000011	-0.08	3.84	6.00	0.03
01	6621	Max WS	Tr200_7h	0.03	38.92	40.17		40.17	0.000000	0.01	3.41	6.00	0.00
01	6621	Max WS	Tr200_12h	0.08	38.92	39.98		39.98	0.000004	0.04	2.27	4.99	0.02

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6571	Max WS	Tr200_2h	-0.02	38.74	40.16		40.16	0.000000	0.00	5.38	10.00	0.00
01	6571	Max WS	Tr200_4h	-0.19	38.74	40.24		40.24	0.000002	-0.04	6.16	10.00	0.01
01	6571	Max WS	Tr200_7h	-0.02	38.74	40.17		40.17	0.000000	-0.01	5.45	10.00	0.00
01	6571	Max WS	Tr200_12h	-0.14	38.74	39.98		39.98	0.000004	-0.04	3.53	10.00	0.02
01	6521	Max WS	Tr200_2h	-0.23	38.69	40.16		40.16	0.000002	-0.04	6.98	11.00	0.01
01	6521	Max WS	Tr200_4h	-0.42	38.69	40.24		40.24	0.000006	-0.06	7.83	11.00	0.02
01	6521	Max WS	Tr200_7h	-0.26	38.69	40.17		40.17	0.000003	-0.04	7.05	11.00	0.01
01	6521	Max WS	Tr200_12h	0.05	38.69	39.98		39.98	0.000000	0.01	4.95	11.00	0.00
01	6471	Max WS	Tr200_2h	-0.33	38.71	40.16		40.16	0.000001	-0.03	13.13	18.00	0.01
01	6471	Max WS	Tr200_4h	-0.65	38.71	40.24		40.24	0.000004	-0.05	14.53	18.00	0.02
01	6471	Max WS	Tr200_7h	-0.35	38.71	40.17		40.17	0.000002	-0.03	13.25	18.00	0.01
01	6471	Max WS	Tr200_12h	0.09	38.71	39.98		39.98	0.000000	0.01	9.81	18.00	0.00
01	6421	Max WS	Tr200_2h	-0.65	38.72	40.16		40.16	0.000017	-0.11	6.66	8.00	0.04
01	6421	Max WS	Tr200_4h	-1.01	38.72	40.24		40.24	0.000032	-0.16	7.28	8.00	0.05
01	6421	Max WS	Tr200_7h	-0.69	38.72	40.17		40.17	0.000019	-0.12	6.71	8.00	0.04
01	6421	Max WS	Tr200_12h	0.09	38.72	39.98		39.98	0.000001	0.02	5.19	8.00	0.01
01	6371	Max WS	Tr200_2h	-1.10	38.60	40.16		40.16	0.000064	-0.19	7.13	14.00	0.06
01	6371	Max WS	Tr200_4h	-1.62	38.60	40.24		40.24	0.000096	-0.25	8.22	14.00	0.08
01	6371	Max WS	Tr200_7h	-1.14	38.60	40.17		40.17	0.000067	-0.20	7.22	14.00	0.07
01	6371	Max WS	Tr200_12h	0.17	38.60	39.98		39.98	0.000004	0.04	4.64	11.78	0.02
01	6321	Max WS	Tr200_2h	-1.93	38.51	40.16		40.16	0.000102	-0.27	7.70	9.00	0.08
01	6321	Max WS	Tr200_4h	-2.69	38.51	40.24		40.24	0.000155	-0.35	8.40	9.00	0.10
01	6321	Max WS	Tr200_7h	-2.01	38.51	40.17		40.17	0.000108	-0.28	7.76	9.00	0.09
01	6321	Max WS	Tr200_12h	0.29	38.51	39.98		39.98	0.000004	0.05	6.04	9.00	0.02
01	6271	Max WS	Tr200_2h	4.98	38.44	40.13		40.14	0.000451	0.57	11.79	28.98	0.18
01	6271	Max WS	Tr200_4h	5.47	38.44	40.22		40.23	0.000341	0.52	15.07	43.59	0.16
01	6271	Max WS	Tr200_7h	5.01	38.44	40.14		40.15	0.000437	0.56	12.02	30.11	0.18
01	6271	Max WS	Tr200_12h	3.79	38.44	39.91		39.94	0.000853	0.67	6.62	20.94	0.24
01	6258.5	Max WS	Tr200_2h	4.98	38.39	40.12	39.38	40.14	0.000579	0.63	10.25	24.46	0.21
01	6258.5	Max WS	Tr200_4h	5.47	38.39	40.21	39.42	40.23	0.000441	0.58	12.68	30.79	0.18
01	6258.5	Max WS	Tr200_7h	5.01	38.39	40.13	39.38	40.15	0.000562	0.62	10.44	24.59	0.20
01	6258.5	Max WS	Tr200_12h	3.79	38.39	39.90	39.28	39.93	0.001087	0.73	5.48	16.61	0.27
01	6250			Bridge									
01	6246	Max WS	Tr200_2h	4.98	38.39	39.99		40.02	0.001158	0.81	7.25	20.45	0.28
01	6246	Max WS	Tr200_4h	5.47	38.39	40.06		40.09	0.000971	0.78	8.77	23.48	0.26
01	6246	Max WS	Tr200_7h	5.01	38.39	40.00		40.03	0.001127	0.80	7.39	20.66	0.28
01	6246	Max WS	Tr200_12h	3.79	38.39	39.83		39.86	0.001477	0.81	4.68	7.19	0.31
01	6245			Lat Struct									
01	6244			Lat Struct									
01	6221	Max WS	Tr200_2h	4.98	38.24	39.91		39.97	0.003011	1.16	4.30	5.68	0.42
01	6221	Max WS	Tr200_4h	5.46	38.24	39.98		40.05	0.003004	1.16	4.74	8.42	0.43
01	6221	Max WS	Tr200_7h	5.00	38.24	39.91		39.98	0.002985	1.15	4.34	5.75	0.42
01	6221	Max WS	Tr200_12h	3.79	38.24	39.75		39.81	0.002633	1.08	3.52	4.57	0.39
01	6181	Max WS	Tr200_2h	4.97	38.14	39.78	39.25	39.85	0.003243	1.20	4.13	5.40	0.44
01	6181	Max WS	Tr200_4h	5.46	38.14	39.85	39.29	39.92	0.003256	1.20	4.54	6.05	0.44
01	6181	Max WS	Tr200_7h	5.00	38.14	39.79	39.25	39.86	0.003201	1.20	4.18	5.48	0.44
01	6181	Max WS	Tr200_12h	3.79	38.14	39.65	39.12	39.71	0.002684	1.09	3.49	4.53	0.39
01	6176			Bridge									
01	6171	Max WS	Tr200_2h	4.97	38.14	39.66		39.76	0.004434	1.40	3.56	4.62	0.51
01	6171	Max WS	Tr200_4h	5.42	38.14	39.69		39.80	0.004848	1.47	3.70	4.79	0.53
01	6171	Max WS	Tr200_7h	4.99	38.14	39.67		39.77	0.004384	1.39	3.59	4.66	0.51
01	6171	Max WS	Tr200_12h	3.79	38.14	39.60		39.67	0.003021	1.15	3.30	4.27	0.42
01	6170			Lat Struct									
01	6169			Lat Struct									
01	6121	Max WS	Tr200_2h	4.97	37.98	39.61		39.62	0.000485	0.59	8.42	8.27	0.19
01	6121	Max WS	Tr200_4h	5.35	37.98	39.63		39.65	0.000572	0.62	8.63	9.01	0.20
01	6121	Max WS	Tr200_7h	4.99	37.98	39.61		39.63	0.000502	0.59	8.48	8.64	0.19
01	6121	Max WS	Tr200_12h	3.78	37.98	39.57		39.58	0.000297	0.47	8.09	7.78	0.15
01	6071	Max WS	Tr200_2h	3.59	37.77	39.59		39.61	0.000533	0.56	6.43	6.96	0.19
01	6071	Max WS	Tr200_4h	3.36	37.77	39.63		39.64	0.000427	0.50	6.66	7.12	0.17
01	6071	Max WS	Tr200_7h	3.43	37.77	39.61		39.62	0.000470	0.53	6.51	6.99	0.17
01	6071	Max WS	Tr200_12h	3.01	37.77	39.55		39.56	0.000427	0.49	6.13	6.86	0.17
01	6021	Max WS	Tr200_2h	4.88	37.82	39.52	38.79	39.55	0.001162	0.82	5.95	6.67	0.28
01	6021	Max WS	Tr200_4h	5.11	37.82	39.55	38.81	39.58	0.001161	0.83	6.14	6.70	0.28
01	6021	Max WS	Tr200_7h	4.95	37.82	39.53	38.80	39.56	0.001162	0.82	6.01	6.68	0.28
01	6021	Max WS	Tr200_12h	4.52	37.82	39.47	38.76	39.51	0.001155	0.80	5.66	6.63	0.28
01	6010			Bridge									
01	6001	Max WS	Tr200_2h	4.88	37.82	39.30		39.36	0.002295	1.07	4.57	5.81	0.38

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	6001	Max WS	Tr200_4h	5.11	37.82	39.31		39.37	0.002468	1.11	4.61	5.86	0.40
01	6001	Max WS	Tr200_7h	4.95	37.82	39.31		39.36	0.002347	1.08	4.58	5.82	0.39
01	6001	Max WS	Tr200_12h	4.52	37.82	39.29		39.34	0.002031	1.00	4.50	5.71	0.36
01	6000		Lat Struct										
01	5999		Lat Struct										
01	5971	Max WS	Tr200_2h	4.76	37.58	39.27		39.31	0.001436	0.90	5.37	7.00	0.31
01	5971	Max WS	Tr200_4h	4.97	37.58	39.27		39.32	0.001537	0.93	5.41	7.00	0.32
01	5971	Max WS	Tr200_7h	4.83	37.58	39.27		39.31	0.001466	0.91	5.38	7.00	0.31
01	5971	Max WS	Tr200_12h	4.43	37.58	39.26		39.29	0.001283	0.84	5.31	7.00	0.29
01	5921	Max WS	Tr200_2h	4.09	37.53	39.19		39.23	0.002068	0.94	4.36	6.76	0.35
01	5921	Max WS	Tr200_4h	4.17	37.53	39.19		39.24	0.002101	0.95	4.40	6.87	0.36
01	5921	Max WS	Tr200_7h	4.11	37.53	39.19		39.24	0.002067	0.94	4.38	6.82	0.35
01	5921	Max WS	Tr200_12h	3.94	37.53	39.18		39.22	0.001993	0.92	4.31	6.59	0.35
01	5871	Max WS	Tr200_2h	3.92	37.59	39.13		39.16	0.001096	0.78	5.03	5.86	0.27
01	5871	Max WS	Tr200_4h	3.96	37.59	39.13		39.16	0.001099	0.78	5.07	5.88	0.27
01	5871	Max WS	Tr200_7h	3.93	37.59	39.13		39.16	0.001088	0.78	5.06	5.88	0.27
01	5871	Max WS	Tr200_12h	3.83	37.59	39.12		39.15	0.001074	0.77	4.99	5.83	0.27
01	5870		Lat Struct										
01	5821	Max WS	Tr200_2h	3.87	37.63	39.04		39.08	0.001957	0.87	4.42	6.86	0.35
01	5821	Max WS	Tr200_4h	3.88	37.63	39.05		39.09	0.001890	0.87	4.48	6.88	0.34
01	5821	Max WS	Tr200_7h	3.87	37.63	39.05		39.09	0.001902	0.87	4.47	6.87	0.34
01	5821	Max WS	Tr200_12h	3.81	37.63	39.03		39.07	0.001976	0.87	4.36	6.85	0.35
01	5771	Max WS	Tr200_2h	3.75	37.26	38.97		39.00	0.001354	0.81	4.68	6.68	0.29
01	5771	Max WS	Tr200_4h	3.67	37.26	38.98		39.01	0.001220	0.78	4.79	6.73	0.28
01	5771	Max WS	Tr200_7h	3.69	37.26	38.98		39.01	0.001249	0.79	4.76	6.72	0.28
01	5771	Max WS	Tr200_12h	3.74	37.26	38.95		38.99	0.001414	0.83	4.59	6.65	0.29
01	5721	Max WS	Tr200_2h	3.72	37.37	38.89		38.93	0.001558	0.88	4.25	5.06	0.31
01	5721	Max WS	Tr200_4h	3.62	37.37	38.92		38.95	0.001369	0.82	4.39	5.21	0.29
01	5721	Max WS	Tr200_7h	3.64	37.37	38.91		38.95	0.001409	0.84	4.36	5.17	0.29
01	5721	Max WS	Tr200_12h	3.73	37.37	38.87		38.91	0.001641	0.90	4.17	4.99	0.31
01	5671	Max WS	Tr200_2h	3.72	37.26	38.84		38.87	0.000815	0.70	5.32	5.46	0.23
01	5671	Max WS	Tr200_4h	3.62	37.26	38.88		38.90	0.000711	0.66	5.50	5.59	0.21
01	5671	Max WS	Tr200_7h	3.64	37.26	38.87		38.89	0.000733	0.67	5.46	5.56	0.22
01	5671	Max WS	Tr200_12h	3.73	37.26	38.82		38.85	0.000859	0.72	5.21	5.38	0.23
01	5621	Max WS	Tr200_2h	3.72	37.22	38.80		38.83	0.000822	0.69	5.41	6.13	0.23
01	5621	Max WS	Tr200_4h	3.62	37.22	38.84		38.86	0.000702	0.64	5.65	6.35	0.22
01	5621	Max WS	Tr200_7h	3.64	37.22	38.83		38.86	0.000727	0.65	5.59	6.30	0.22
01	5621	Max WS	Tr200_12h	3.73	37.22	38.78		38.81	0.000875	0.71	5.27	6.01	0.24
01	5601.	Max WS	Tr200_2h	3.72	37.16	38.79	37.96	38.81	0.000710	0.65	5.74	7.00	0.22
01	5601.	Max WS	Tr200_4h	3.62	37.16	38.83	37.95	38.85	0.000587	0.60	6.12	12.65	0.20
01	5601.	Max WS	Tr200_7h	3.64	37.16	38.82	37.95	38.84	0.000612	0.61	6.01	10.90	0.20
01	5601.	Max WS	Tr200_12h	3.73	37.16	38.77	37.95	38.79	0.000764	0.67	5.59	6.37	0.23
01	5591		Bridge										
01	5586	Max WS	Tr200_2h	3.72	37.16	38.77		38.79	0.000753	0.66	5.62	6.39	0.23
01	5586	Max WS	Tr200_4h	3.62	37.16	38.81		38.83	0.000631	0.62	5.89	8.85	0.21
01	5586	Max WS	Tr200_7h	3.64	37.16	38.80		38.82	0.000657	0.63	5.82	7.64	0.21
01	5586	Max WS	Tr200_12h	3.73	37.16	38.75		38.78	0.000801	0.68	5.49	6.29	0.23
01	5585		Lat Struct										
01	5584		Lat Struct										
01	5571	Max WS	Tr200_2h	3.72	37.07	38.76		38.78	0.000616	0.64	5.91	7.29	0.20
01	5571	Max WS	Tr200_4h	3.61	37.07	38.80		38.82	0.000516	0.59	6.27	9.96	0.19
01	5571	Max WS	Tr200_7h	3.64	37.07	38.79		38.81	0.000539	0.60	6.18	9.93	0.19
01	5571	Max WS	Tr200_12h	3.73	37.07	38.74		38.76	0.000657	0.65	5.77	6.75	0.21
01	5521	Max WS	Tr200_2h	2.87	36.99	38.76		38.77	0.000304	0.46	6.35	7.00	0.14
01	5521	Max WS	Tr200_4h	2.97	36.99	38.80		38.81	0.000291	0.46	6.62	7.00	0.14
01	5521	Max WS	Tr200_7h	2.97	36.99	38.79		38.80	0.000298	0.46	6.56	7.00	0.14
01	5521	Max WS	Tr200_12h	2.65	36.99	38.74		38.75	0.000274	0.43	6.24	7.00	0.14
01	5471	Max WS	Tr200_2h	1.56	37.06	38.76		38.76	0.000107	0.26	6.87	10.83	0.08
01	5471	Max WS	Tr200_4h	1.10	37.06	38.80		38.81	0.000044	0.17	7.33	10.88	0.06
01	5471	Max WS	Tr200_7h	1.20	37.06	38.79		38.80	0.000055	0.19	7.23	10.87	0.06
01	5471	Max WS	Tr200_12h	2.27	37.06	38.73		38.74	0.000253	0.39	6.55	10.80	0.13
01	5421	Max WS	Tr200_2h	1.62	36.97	38.76	37.56	38.76	0.000114	0.28	5.80	5.41	0.09
01	5421	Max WS	Tr200_4h	0.74	36.97	38.80	37.40	38.81	0.000021	0.12	6.07	5.51	0.04
01	5421	Max WS	Tr200_7h	0.81	36.97	38.79	37.41	38.80	0.000026	0.13	6.01	5.49	0.04
01	5421	Max WS	Tr200_12h	2.48	36.97	38.71	37.69	38.72	0.000294	0.44	5.58	5.33	0.14
01	5415		Bridge										
01	5401	Max WS	Tr200_2h	1.62	36.97	38.75		38.76	0.000115	0.28	5.78	5.41	0.09
01	5401	Max WS	Tr200_4h	0.74	36.97	38.80		38.80	0.000021	0.12	6.06	5.51	0.04
01	5401	Max WS	Tr200_7h	0.81	36.97	38.79		38.79	0.000026	0.13	6.01	5.49	0.04

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	5401	Max WS	Tr200_12h	2.48	36.97	38.71		38.72	0.000299	0.45	5.54	5.32	0.14
01	5400			Lat Struct									
01	5399			Lat Struct									
01	5371	Max WS	Tr200_2h	1.62	36.88	38.75		38.75	0.000065	0.23	7.21	6.03	0.07
01	5371	Max WS	Tr200_4h	0.74	36.88	38.80		38.80	0.000012	0.10	7.53	6.17	0.03
01	5371	Max WS	Tr200_7h	0.80	36.88	38.79		38.80	0.000014	0.11	7.47	6.14	0.03
01	5371	Max WS	Tr200_12h	2.48	36.88	38.70		38.71	0.000169	0.36	6.93	5.90	0.11
01	5321	Max WS	Tr200_2h	1.62	36.86	38.75		38.75	0.000085	0.24	6.66	5.89	0.07
01	5321	Max WS	Tr200_4h	0.72	36.86	38.81		38.81	0.000015	0.10	7.00	6.08	0.03
01	5321	Max WS	Tr200_7h	0.76	36.86	38.80		38.80	0.000017	0.11	6.95	6.05	0.03
01	5321	Max WS	Tr200_12h	2.47	36.86	38.69		38.70	0.000221	0.39	6.35	5.71	0.12
01	5271	Max WS	Tr200_2h	1.62	36.76	38.74	37.34	38.75	0.000063	0.22	7.51	6.57	0.06
01	5271	Max WS	Tr200_4h	0.62	36.76	38.81	37.16	38.81	0.000008	0.08	7.94	7.22	0.02
01	5271	Max WS	Tr200_7h	0.69	36.76	38.80	37.21	38.80	0.000010	0.09	7.89	7.13	0.03
01	5271	Max WS	Tr200_12h	2.47	36.76	38.69	37.44	38.69	0.000165	0.35	7.13	6.32	0.10
01	5265			Bridge									
01	5256	Max WS	Tr200_2h	1.62	36.76	38.74		38.74	0.000063	0.22	7.49	6.55	0.06
01	5256	Max WS	Tr200_4h	0.69	36.76	38.80		38.80	0.000010	0.09	7.91	7.17	0.03
01	5256	Max WS	Tr200_7h	0.69	36.76	38.79		38.80	0.000010	0.09	7.85	7.08	0.03
01	5256	Max WS	Tr200_12h	2.47	36.76	38.68		38.69	0.000167	0.35	7.08	6.29	0.10
01	5255			Lat Struct									
01	5254			Lat Struct									
01	5221	Max WS	Tr200_2h	1.63	36.72	38.74		38.74	0.000077	0.22	7.42	7.80	0.07
01	5221	Max WS	Tr200_4h	0.58	36.72	38.81		38.81	0.000008	0.07	7.95	8.00	0.02
01	5221	Max WS	Tr200_7h	0.66	36.72	38.80		38.80	0.000011	0.08	7.89	8.00	0.03
01	5221	Max WS	Tr200_12h	2.47	36.72	38.67		38.68	0.000206	0.36	6.91	7.27	0.12
01	5171	Max WS	Tr200_2h	2.96	36.63	38.72		38.73	0.000173	0.37	8.07	7.08	0.11
01	5171</												

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4829			Lat Struct									
01	4821	Max WS	Tr200_2h	7.42	35.95	37.71		37.76	0.001424	1.00	7.46	8.19	0.32
01	4821	Max WS	Tr200_4h	8.14	35.95	37.73		37.79	0.001602	1.07	7.64	8.23	0.34
01	4821	Max WS	Tr200_7h	8.09	35.95	37.73		37.79	0.001578	1.07	7.65	8.23	0.33
01	4821	Max WS	Tr200_12h	7.34	35.95	37.70		37.76	0.001414	1.00	7.41	8.18	0.31
01	4771	Max WS	Tr200_2h	4.50	36.05	37.72		37.74	0.000646	0.69	6.55	6.34	0.21
01	4771	Max WS	Tr200_4h	4.02	36.05	37.76		37.78	0.000454	0.59	6.84	6.47	0.18
01	4771	Max WS	Tr200_7h	4.26	36.05	37.76		37.78	0.000510	0.63	6.84	6.47	0.19
01	4771	Max WS	Tr200_12h	4.54	36.05	37.71		37.73	0.000678	0.70	6.48	6.31	0.22
01	4721	Max WS	Tr200_2h	6.07	36.03	37.62		37.67	0.001591	1.03	6.20	7.86	0.34
01	4721	Max WS	Tr200_4h	6.59	36.03	37.64		37.70	0.001702	1.09	6.41	7.91	0.35
01	4721	Max WS	Tr200_7h	6.59	36.03	37.64		37.70	0.001699	1.09	6.41	7.91	0.35
01	4721	Max WS	Tr200_12h	5.92	36.03	37.61		37.66	0.001564	1.02	6.13	7.84	0.33
01	4671	Max WS	Tr200_2h	5.83	35.79	37.54		37.60	0.001519	1.04	6.32	10.72	0.32
01	4671	Max WS	Tr200_4h	6.28	35.79	37.57		37.62	0.001614	1.09	6.56	10.80	0.33
01	4671	Max WS	Tr200_7h	6.28	35.79	37.57		37.62	0.001614	1.09	6.56	10.80	0.33
01	4671	Max WS	Tr200_12h	5.69	35.79	37.54		37.59	0.001489	1.03	6.23	10.69	0.32
01	4621	Max WS	Tr200_2h	5.82	35.90	37.44		37.50	0.002277	1.13	5.20	6.75	0.38
01	4621	Max WS	Tr200_4h	6.27	35.90	37.44		37.52	0.002558	1.21	5.26	6.76	0.41
01	4621	Max WS	Tr200_7h	6.27	35.90	37.44		37.52	0.002558	1.21	5.26	6.76	0.41
01	4621	Max WS	Tr200_12h	5.67	35.90	37.43		37.49	0.002187	1.11	5.18	6.75	0.38
01	4571	Max WS	Tr200_2h	4.74	36.01	37.39		37.43	0.001254	0.88	5.66	8.83	0.30
01	4571	Max WS	Tr200_4h	5.04	36.01	37.40		37.44	0.001377	0.93	5.73	8.84	0.31
01	4571	Max WS	Tr200_7h	5.03	36.01	37.40		37.44	0.001375	0.93	5.73	8.84	0.31
01	4571	Max WS	Tr200_12h	4.62	36.01	37.39		37.43	0.001203	0.86	5.63	8.82	0.29
01	4521	Max WS	Tr200_2h	3.29	35.87	37.38		37.40	0.000642	0.62	5.34	5.73	0.20
01	4521	Max WS	Tr200_4h	3.41	35.87	37.40		37.42	0.000670	0.63	5.40	5.75	0.21
01	4521	Max WS	Tr200_7h	3.41	35.87	37.40		37.42	0.000668	0.63	5.40	5.75	0.21
01	4521	Max WS	Tr200_12h	3.24	35.87	37.38		37.40	0.000627	0.61	5.33	5.73	0.20
01	4471	Max WS	Tr200_2h	3.14	35.86	37.36		37.37	0.000653	0.58	5.41	6.80	0.21
01	4471	Max WS	Tr200_4h	3.22	35.86	37.37		37.38	0.000665	0.59	5.48	6.84	0.21
01	4471	Max WS	Tr200_7h	3.22	35.86	37.37		37.38	0.000662	0.59	5.48	6.84	0.21
01	4471	Max WS	Tr200_12h	3.09	35.86	37.35		37.37	0.000639	0.57	5.39	6.79	0.21
01	4446	Max WS	Tr200_2h	3.14	35.76	37.34	36.49	37.36	0.000534	0.56	5.65	6.44	0.19
01	4446	Max WS	Tr200_4h	3.22	35.76	37.35	36.50	37.37	0.000546	0.56	5.71	6.47	0.19
01	4446	Max WS	Tr200_7h	3.21	35.76	37.35	36.50	37.37	0.000544	0.56	5.71	6.47	0.19
01	4446	Max WS	Tr200_12h	3.09	35.76	37.34	36.48	37.36	0.000522	0.55	5.63	6.43	0.19
01	4435			Bridge									
01	4421	Max WS	Tr200_2h	3.14	35.76	37.31		37.33	0.000596	0.58	5.42	6.32	0.20
01	4421	Max WS	Tr200_4h	3.22	35.76	37.32		37.33	0.000612	0.59	5.47	6.35	0.20
01	4421	Max WS	Tr200_7h	3.21	35.76	37.32		37.33	0.000609	0.59	5.47	6.35	0.20
01	4421	Max WS	Tr200_12h	3.09	35.76	37.31		37.32	0.000580	0.57	5.41	6.32	0.20
01	4420			Lat Struct									
01	4419			Lat Struct									
01	4371	Max WS	Tr200_2h	3.14	35.89	37.28		37.30	0.000495	0.55	5.70	6.27	0.18
01	4371	Max WS	Tr200_4h	3.22	35.89	37.29		37.31	0.000511	0.56	5.75	6.30	0.19
01	4371	Max WS	Tr200_7h	3.21	35.89	37.29		37.31	0.000507	0.56	5.75	6.30	0.19
01	4371	Max WS	Tr200_12h	3.09	35.89	37.28		37.30	0.000481	0.54	5.70	6.27	0.18
01	4321	Max WS	Tr200_2h	3.14	35.92	37.26		37.27	0.000520	0.55	5.76	7.02	0.19
01	4321	Max WS	Tr200_4h	3.22	35.92	37.26		37.28	0.000536	0.56	5.80	7.05	0.19
01	4321	Max WS	Tr200_7h	3.21	35.92	37.26		37.28	0.000530	0.55	5.81	7.05	0.19
01	4321	Max WS	Tr200_12h	3.09	35.92	37.26		37.27	0.000503	0.54	5.76	7.02	0.19
01	4271	Max WS	Tr200_2h	3.14	35.85	37.22		37.24	0.000727	0.57	5.49	20.16	0.22
01	4271	Max WS	Tr200_4h	3.22	35.85	37.23		37.25	0.000756	0.58	5.53	20.53	0.22
01	4271	Max WS	Tr200_7h	3.19	35.85	37.23		37.25	0.000741	0.58	5.54	20.62	0.22
01	4271	Max WS	Tr200_12h	3.09	35.85	37.23		37.24	0.000701	0.56	5.50	20.27	0.21
01	4221	Max WS	Tr200_2h	3.14	35.73	37.20		37.21	0.000489	0.56	5.63	5.86	0.18
01	4221	Max WS	Tr200_4h	3.22	35.73	37.20		37.22	0.000510	0.57	5.65	5.87	0.19
01	4221	Max WS	Tr200_7h	3.18	35.73	37.20		37.22	0.000493	0.56	5.66	5.87	0.18
01	4221	Max WS	Tr200_12h	2.55	35.73	37.20		37.21	0.000319	0.45	5.65	5.87	0.15
01	4171	Max WS	Tr200_2h	2.98	35.96	37.16		37.18	0.000750	0.60	5.19	9.71	0.22
01	4171	Max WS	Tr200_4h	2.96	35.96	37.17		37.19	0.000725	0.59	5.23	9.72	0.22
01	4171	Max WS	Tr200_7h	2.97	35.96	37.17		37.19	0.000717	0.59	5.27	9.72	0.22
01	4171	Max WS	Tr200_12h	1.90	35.96	37.19		37.19	0.000274	0.37	5.41	9.74	0.14
01	4121	Max WS	Tr200_2h	2.59	35.92	37.13		37.15	0.000927	0.60	4.38	8.67	0.25
01	4121	Max WS	Tr200_4h	2.46	35.92	37.14		37.15	0.000789	0.56	4.47	8.76	0.23
01	4121	Max WS	Tr200_7h	2.44	35.92	37.14		37.16	0.000748	0.55	4.52	8.81	0.22
01	4121	Max WS	Tr200_12h	0.32	35.92	37.19		37.19	0.000010	0.07	4.90	9.00	0.03
01	4071	Max WS	Tr200_2h	2.31	35.81	37.09		37.10	0.000826	0.55	4.30	9.71	0.23
01	4071	Max WS	Tr200_4h	2.11	35.81	37.11		37.12	0.000594	0.48	4.55	10.00	0.20

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	4071	Max WS	Tr200_7h	1.95	35.81	37.12		37.13	0.000472	0.43	4.67	10.00	0.17
01	4071	Max WS	Tr200_12h	0.21	35.81	37.19		37.19	0.000004	0.04	5.29	10.00	0.02
01	4021	Max WS	Tr200_2h	2.08	35.76	37.06		37.07	0.000570	0.45	4.66	8.99	0.19
01	4021	Max WS	Tr200_4h	1.43	35.76	37.10		37.11	0.000211	0.29	5.07	9.00	0.12
01	4021	Max WS	Tr200_7h	1.28	35.76	37.12		37.12	0.000155	0.25	5.21	9.00	0.10
01	4021	Max WS	Tr200_12h	0.16	35.76	37.19		37.19	0.000002	0.03	5.81	9.00	0.01
01	3971	Max WS	Tr200_2h	1.14	35.89	37.05		37.06	0.000137	0.24	4.98	10.00	0.10
01	3971	Max WS	Tr200_4h	0.87	35.89	37.10		37.10	0.000062	0.17	5.46	10.00	0.07
01	3971	Max WS	Tr200_7h	0.65	35.89	37.12		37.12	0.000032	0.12	5.62	10.00	0.05
01	3971	Max WS	Tr200_12h	0.12	35.89	37.19		37.19	0.000001	0.02	6.29	10.00	0.01
01	3921	Max WS	Tr200_2h	0.52	35.75	37.06		37.06	0.000038	0.13	4.14	9.00	0.05
01	3921	Max WS	Tr200_4h	0.19	35.75	37.10		37.10	0.000004	0.05	4.57	9.00	0.02
01	3921	Max WS	Tr200_7h	-0.03	35.75	37.12		37.12	0.000000	-0.01	4.70	9.00	0.00
01	3921	Max WS	Tr200_12h	0.07	35.75	37.19		37.19	0.000000	0.02	5.29	9.00	0.01
01	3881	Max WS	Tr200_2h	0.47	35.70	37.06	36.02	37.06	0.000011	0.08	5.89	7.58	0.03
01	3881	Max WS	Tr200_4h	0.38	35.70	37.10	35.99	37.10	0.000006	0.06	6.28	8.40	0.02
01	3881	Max WS	Tr200_7h	0.35	35.70	37.12	35.99	37.12	0.000005	0.06	6.40	8.64	0.02
01	3881	Max WS	Tr200_12h	0.04	35.70	37.19	35.83	37.19	0.000000	0.01	7.04	10.47	0.00
01	3876			Bridge									
01	3871	Max WS	Tr200_2h	0.47	35.70	37.05		37.05	0.000011	0.08	5.88	7.56	0.03
01	3871	Max WS	Tr200_4h	0.35	35.70	37.10		37.10	0.000005	0.06	6.27	8.38	0.02
01	3871	Max WS	Tr200_7h	0.35	35.70	37.12		37.12	0.000005	0.06	6.40	8.64	0.02
01	3871	Max WS	Tr200_12h	0.04	35.70	37.19		37.19	0.000000	0.01	7.04	10.47	0.00
01	3870			Lat Struct									
01	3869			Lat Struct									
01	3821	Max WS	Tr200_2h	0.46	35.84	37.05		37.05	0.000025	0.10	4.45	6.46	0.04
01	3821	Max WS	Tr200_4h	0.34	35.84	37.10		37.10	0.000011	0.07	4.80	8.13	0.03
01	3821	Max WS	Tr200_7h	0.37	35.84	37.12		37.12	0.000012	0.08	4.93	8.47	0.03
01	3821	Max WS	Tr200_12h	0.04	35.84	37.19		37.19	0.000000	0.01	5.54	9.57	0.00
01	3771	Max WS	Tr200_2h	0.46	35.62	37.05		37.05	0.000022	0.10	4.63	6.51	0.04
01	3771	Max WS	Tr200_4h	0.36	35.62	37.10		37.10	0.000012	0.07	4.97	6.97	0.03
01	3771	Max WS	Tr200_7h	0.37	35.62	37.12		37.12	0.000012	0.07	5.09	7.13	0.03
01	3771	Max WS	Tr200_12h	0.04	35.62	37.19		37.19	0.000000	0.01	5.59	7.82	0.00
01	3721	Max WS	Tr200_2h	0.46	35.71	37.05		37.05	0.000023	0.10	4.56	10.00	0.04
01	3721	Max WS	Tr200_4h	0.43	35.71	37.10		37.10	0.000015	0.09	5.06	10.00	0.03
01	3721	Max WS	Tr200_7h	0.47	35.71	37.12		37.12	0.000018	0.10	5.23	10.00	0.03
01	3721	Max WS	Tr200_12h	0.04	35.71	37.19		37.19	0.000000	0.01	5.92	10.00	0.00
01	3671	Max WS	Tr200_2h	0.80	35.34	37.05		37.05	0.000043	0.14	5.76	10.00	0.05
01	3671	Max WS	Tr200_4h	0.54	35.34	37.10		37.10	0.000015	0.09	6.29	10.00	0.03
01	3671	Max WS	Tr200_7h	0.46	35.34	37.12		37.12	0.000011	0.08	6.46	10.00	0.03
01	3671	Max WS	Tr200_12h	0.04	35.34	37.19		37.19	0.000000	0.01	7.15	10.00	0.00
01	3621	Max WS	Tr200_2h	1.94	35.66	37.02		37.03	0.000350	0.39	5.05	9.22	0.15
01	3621	Max WS	Tr200_4h	2.35	35.66	37.07		37.08	0.000430	0.44	5.48	9.50	0.17
01	3621	Max WS	Tr200_7h	2.46	35.66	37.09		37.10	0.000443	0.45	5.63	9.60	0.17
01	3621	Max WS	Tr200_12h	0.04	35.66	37.19		37.19	0.000000	0.01	6.61	10.00	0.00
01	3571	Max WS	Tr200_2h	1.96	35.67	37.01		37.02	0.000179	0.33	5.94	6.63	0.11
01	3571	Max WS	Tr200_4h	2.45	35.67	37.05		37.06	0.000252	0.39	6.22	6.82	0.13
01	3571	Max WS	Tr200_7h	0.07	35.67	37.08		37.08	0.000000	0.01	6.43	7.10	0.00
01	3571	Max WS	Tr200_12h	0.03	35.67	37.19		37.19	0.000000	0.00	7.19	8.68	0.00
01	3521	Max WS	Tr200_2h	1.96	35.81	37.00		37.01	0.000400	0.40	4.94	8.78	0.16
01	3521	Max WS	Tr200_4h	2.43	35.81	37.03		37.04	0.000518	0.47	5.25	8.87	0.18
01	3521	Max WS	Tr200_7h	0.06	35.81	37.08		37.08	0.000000	0.01	5.71	8.93	0.00
01	3521	Max WS	Tr200_12h	0.03	35.81	37.19		37.19	0.000000	0.00	6.63	9.32	0.00
01	3520			Lat Struct									
01	3519			Lat Struct									
01	3471	Max WS	Tr200_2h	1.90	35.63	36.98		36.99	0.000222	0.35	5.49	6.79	0.12
01	3471	Max WS	Tr200_4h	2.01	35.63	37.02		37.03	0.000219	0.35	5.76	6.89	0.12
01	3471	Max WS	Tr200_7h	0.05	35.63	37.08		37.08	0.000000	0.01	6.20	7.16	0.00
01	3471	Max WS	Tr200_12h	0.03	35.63	37.19		37.19	0.000000	0.00	6.95	7.84	0.00
01	3421	Max WS	Tr200_2h	1.57	35.64	36.98		36.98	0.000203	0.28	5.75	10.52	0.11
01	3421	Max WS	Tr200_4h	1.15	35.64	37.02		37.02	0.000090	0.19	6.23	10.93	0.08
01	3421	Max WS	Tr200_7h	0.03	35.64	37.08		37.08	0.000000	0.00	6.92	11.00	0.00
01	3421	Max WS	Tr200_12h	0.03	35.64	37.19		37.19	0.000000	0.00	8.02	11.00	0.00
01	3371	Max WS	Tr200_2h	0.94	35.55	36.96		36.96	0.000071	0.17	5.78	11.00	0.07
01	3371	Max WS	Tr200_4h	1.63	35.55	37.01		37.02	0.000162	0.27	6.33	11.00	0.10
01	3371	Max WS	Tr200_7h	0.06	35.55	37.08		37.08	0.000000	0.01	7.12	11.00	0.00
01	3371	Max WS	Tr200_12h	0.03	35.55	37.19		37.19	0.000000	0.00	8.23	11.00	0.00
01	3321	Max WS	Tr200_2h	0.67	35.55	36.96		36.96	0.000039	0.13	5.16	7.58	0.05
01	3321	Max WS	Tr200_4h	1.33	35.55	37.00		37.01	0.000131	0.24	5.49	8.90	0.09
01	3321	Max WS	Tr200_7h	0.11	35.55	37.08		37.08	0.000001	0.02	6.23	9.22	0.01

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	3321	Max WS	Tr200_12h	0.03	35.55	37.19		37.19	0.000000	0.00	7.21	10.00	0.00
01	3271	Max WS	Tr200_2h	0.62	35.54	36.96		36.96	0.000035	0.12	5.35	8.84	0.05
01	3271	Max WS	Tr200_4h	0.87	35.54	37.00		37.00	0.000060	0.15	5.75	10.44	0.06
01	3271	Max WS	Tr200_7h	0.17	35.54	37.08		37.08	0.000001	0.03	6.66	10.91	0.01
01	3271	Max WS	Tr200_12h	0.04	35.54	37.19		37.19	0.000000	0.01	7.77	11.00	0.00
01	3221	Max WS	Tr200_2h	0.61	35.52	36.96		36.96	0.000015	0.10	6.20	6.49	0.03
01	3221	Max WS	Tr200_4h	0.74	35.52	37.00		37.00	0.000020	0.12	6.46	6.64	0.04
01	3221	Max WS	Tr200_7h	0.23	35.52	37.08		37.08	0.000002	0.03	7.05	6.98	0.01
01	3221	Max WS	Tr200_12h	0.06	35.52	37.19		37.19	0.000000	0.01	7.84	8.96	0.00
01	3171	Max WS	Tr200_2h	0.60	35.51	36.96		36.96	0.000023	0.11	5.56	9.07	0.04
01	3171	Max WS	Tr200_4h	0.70	35.51	37.00		37.00	0.000027	0.12	5.94	10.28	0.04
01	3171	Max WS	Tr200_7h	0.32	35.51	37.08		37.08	0.000004	0.05	6.96	12.00	0.02
01	3171	Max WS	Tr200_12h	0.10	35.51	37.19		37.19	0.000000	0.01	8.18	12.00	0.00
01	3121	Max WS	Tr200_2h	0.58	35.78	36.96		36.96	0.000030	0.12	5.36	11.73	0.05
01	3121	Max WS	Tr200_4h	0.65	35.78	36.99		37.00	0.000032	0.13	5.87	13.32	0.05
01	3121	Max WS	Tr200_7h	0.49	35.78	37.08		37.08	0.000012	0.08	7.11	15.07	0.03
01	3121	Max WS	Tr200_12h	0.19	35.78	37.19		37.19	0.000001	0.03	8.68	15.59	0.01
01	3071	Max WS	Tr200_2h	0.58	35.18	36.96	35.47	36.96	0.000004	0.05	11.19	11.73	0.02
01	3071	Max WS	Tr200_4h	0.65	35.18	36.99	35.48	36.99	0.000004	0.06	11.65	12.03	0.02
01	3071	Max WS	Tr200_7h	0.49	35.18	37.08	35.44	37.08	0.000002	0.04	12.75	12.84	0.01
01	3071	Max WS	Tr200_12h	0.20	35.18	37.19	35.36	37.19	0.000000	0.01	14.12	13.89	0.00
01	3061			Bridge									
01	3051	Max WS	Tr200_2h	0.57	35.18	36.96		36.96	0.000004	0.05	11.19	11.73	0.02
01	3051	Max WS	Tr200_4h	0.64	35.18	36.99		36.99	0.000004	0.05	11.65	12.03	0.02
01	3051	Max WS	Tr200_7h	0.49	35.18	37.08		37.08	0.000002	0.04	12.75	12.84	0.01
01	3051	Max WS	Tr200_12h	0.20	35.18	37.18		37.19	0.000000	0.01	14.12	13.89	0.00
01	3050			Lat Struct									
01	3049			Lat Struct									
01	3021	Max WS	Tr200_2h	0.57	35.05	36.95		36.96	0.000010	0.08	6.96	6.95	0.03
01	3021	Max WS	Tr200_4h	0.63	35.05	36.99		36.99	0.000011	0.09	7.23	7.05	0.03
01	3021	Max WS	Tr200_7h	0.49	35.05	37.08		37.08	0.000005	0.06	8.04	12.50	0.02
01	3021	Max WS	Tr200_12h	0.20	35.05	37.18		37.19	0.000001	0.02	9.55	16.45	0.01
01	2971	Max WS	Tr200_2h	0.57	35.26	36.95		36.95	0.000012	0.08	6.74	7.82	0.03
01	2971	Max WS	Tr200_4h	0.60	35.26	36.99		36.99	0.000013	0.09	7.05	8.06	0.03
01	2971	Max WS	Tr200_7h	0.49	35.26	37.08		37.08	0.000006	0.06	7.79	8.62	0.02
01	2971	Max WS	Tr200_12h	0.20	35.26	37.18		37.19	0.000001	0.02	8.71	9.47	0.01
01	2921	Max WS	Tr200_2h	0.55	35.55	36.95		36.95	0.000014	0.09	6.33	7.80	0.03
01	2921	Max WS	Tr200_4h	0.59	35.55	36.99		36.99	0.000014	0.09	6.64	8.09	0.03
01	2921	Max WS	Tr200_7h	0.49	35.55	37.08		37.08	0.000007	0.07	7.39	8.76	0.02
01	2921	Max WS	Tr200_12h	0.20	35.55	37.18		37.19	0.000001	0.02	8.38	10.70	0.01
01	2871	Max WS	Tr200_2h	0.55	34.76	36.95		36.95	0.000006	0.06	8.75	8.42	0.02
01	2871	Max WS	Tr200_4h	0.58	34.76	36.99		36.99	0.000006	0.06	9.08	8.58	0.02
01	2871	Max WS	Tr200_7h	0.49	34.76	37.08		37.08	0.000004	0.05	9.90	10.03	0.02
01	2871	Max WS	Tr200_12h	0.21	34.76	37.18		37.19	0.000000	0.02	10.97	10.92	0.01
01	2821	Max WS	Tr200_2h	0.55	35.15	36.95		36.95	0.000007	0.07	7.59	7.54	0.02
01	2821	Max WS	Tr200_4h	0.57	35.15	36.99		36.99	0.000008	0.07	7.90	7.87	0.02
01	2821	Max WS	Tr200_7h	0.49	35.15	37.08		37.08	0.000005	0.06	8.63	8.61	0.02
01	2821	Max WS	Tr200_12h	0.21	35.15	37.18		37.19	0.000001	0.02	9.62	11.21	0.01
01	2771	Max WS	Tr200_2h	0.54	35.23	36.95	35.53	36.95	0.000011	0.08	7.17	9.18	0.03
01	2771	Max WS	Tr200_4h	0.57	35.23	36.99	35.53	36.99	0.000011	0.08	7.54	9.71	0.03
01	2771	Max WS	Tr200_7h	0.51	35.23	37.08	35.52	37.08	0.000007	0.06	8.54	12.56	0.02
01	2771	Max WS	Tr200_12h	0.44	35.23	37.18	35.49	37.18	0.000003	0.05	9.85	12.82	0.02
01	2755			Bridge									
01	2751	Max WS	Tr200_2h	0.54	35.23	36.95		36.95	0.000011	0.08	7.16	9.18	0.03
01	2751	Max WS	Tr200_4h	0.55	35.23	36.99		36.99	0.000010	0.07	7.53	9.70	0.03
01	2751	Max WS	Tr200_7h	0.51	35.23	37.08		37.08	0.000007	0.06	8.54	12.56	0.02
01	2751	Max WS	Tr200_12h	0.44	35.23	37.18		37.18	0.000003	0.05	9.85	12.82	0.02
01	2750			Lat Struct									
01	2749			Lat Struct									
01	2721	Max WS	Tr200_2h	0.54	35.16	36.95		36.95	0.000004	0.06	9.23	8.18	0.02
01	2721	Max WS	Tr200_4h	0.55	35.16	36.99		36.99	0.000004	0.06	9.55	8.28	0.02
01	2721	Max WS	Tr200_7h	0.51	35.16	37.08		37.08	0.000003	0.05	10.30	8.51	0.01
01	2721	Max WS	Tr200_12h	0.52	35.16	37.18		37.18	0.000002	0.05	11.20	8.95	0.01
01	2671	Max WS	Tr200_2h	0.53	35.16	36.95		36.95	0.000004	0.06	8.76	7.19	0.02
01	2671	Max WS	Tr200_4h	0.55	35.16	36.99		36.99	0.000004	0.06	9.04	7.30	0.02
01	2671	Max WS	Tr200_7h	0.51	35.16	37.08		37.08	0.000003	0.05	9.71	7.54	0.01
01	2671	Max WS	Tr200_12h	0.52	35.16	37.18		37.18	0.000003	0.05	10.51	8.03	0.01
01	2661	Max WS	Tr200_2h	0.53	35.16	36.95	35.42	36.95	0.000004	0.06	8.76	7.19	0.02
01	2661	Max WS	Tr200_4h	0.55	35.16	36.99	35.42	36.99	0.000004	0.06	9.04	7.30	0.02

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2661	Max WS	Tr200_7h	0.51	35.16	37.08	35.41	37.08	0.000003	0.05	9.71	7.54	0.01
01	2661	Max WS	Tr200_12h	0.52	35.16	37.18	35.42	37.18	0.000003	0.05	10.51	8.03	0.01
01	2640		Bridge										
01	2621	Max WS	Tr200_2h	0.53	34.88	36.95		36.95	0.000002	0.04	12.23	8.35	0.01
01	2621	Max WS	Tr200_4h	0.55	34.88	36.99		36.99	0.000002	0.04	12.56	8.42	0.01
01	2621	Max WS	Tr200_7h	0.51	34.88	37.08		37.08	0.000001	0.04	13.32	8.60	0.01
01	2621	Max WS	Tr200_12h	0.52	34.88	37.18		37.18	0.000001	0.04	14.22	8.81	0.01
01	2620		Lat Struct										
01	2619		Lat Struct										
01	2571	Max WS	Tr200_2h	0.53	35.10	36.95		36.95	0.000005	0.06	8.70	8.18	0.02
01	2571	Max WS	Tr200_4h	0.55	35.10	36.99		36.99	0.000005	0.06	9.02	8.30	0.02
01	2571	Max WS	Tr200_7h	0.51	35.10	37.08		37.08	0.000003	0.05	9.77	8.54	0.02
01	2571	Max WS	Tr200_12h	0.52	35.10	37.18		37.18	0.000003	0.05	10.67	8.81	0.01
01	2521	Max WS	Tr200_2h	0.53	35.09	36.95		36.95	0.000003	0.05	10.08	8.11	0.01
01	2521	Max WS	Tr200_4h	0.55	35.09	36.99		36.99	0.000003	0.05	10.40	8.22	0.01
01	2521	Max WS	Tr200_7h	0.51	35.09	37.08		37.08	0.000002	0.05	11.14	8.47	0.01
01	2521	Max WS	Tr200_12h	0.52	35.09	37.18		37.18	0.000002	0.04	12.04	8.85	0.01
01	2471	Max WS	Tr200_2h	0.53	35.03	36.95		36.95	0.000004	0.05	9.66	8.21	0.02
01	2471	Max WS	Tr200_4h	0.55	35.03	36.99		36.99	0.000003	0.05	9.99	8.33	0.02
01	2471	Max WS	Tr200_7h	0.51	35.03	37.08		37.08	0.000002	0.05	10.74	8.61	0.01
01	2471	Max WS	Tr200_12h	0.52	35.03	37.18		37.18	0.000002	0.04	11.65	8.94	0.01
01	2421	Max WS	Tr200_2h	0.52	34.99	36.95		36.95	0.000004	0.06	9.39	7.70	0.02
01	2421	Max WS	Tr200_4h	0.55	34.99	36.99		36.99	0.000003	0.06	9.70	7.79	0.02
01	2421	Max WS	Tr200_7h	0.51	34.99	37.08		37.08	0.000003	0.05	10.40	8.05	0.01
01	2421	Max WS	Tr200_12h	0.52	34.99	37.18		37.18	0.000002	0.05	11.32	9.49	0.01
01	2371	Max WS	Tr200_2h	0.52	34.96	36.95		36.95	0.000002	0.05	10.88	7.99	0.01
01	2371	Max WS	Tr200_4h	0.54	34.96	36.99		36.99	0.000002	0.05	11.20	8.09	0.01
01	2371	Max WS	Tr200_7h	0.51	34.96	37.08		37.08	0.000002	0.04	11.94	8.39	0.01
01	2371	Max WS	Tr200_12h	0.52	34.96	37.18		37.18	0.000002	0.04	12.82	8.75	0.01
01	2321	Max WS	Tr200_2h	0.52	34.96	36.95	35.17	36.95	0.000003	0.05	9.79	7.87	0.02
01	2321	Max WS	Tr200_4h	0.54	34.96	36.99	35.17	36.99	0.000003	0.05	10.10	7.97	0.02
01	2321	Max WS	Tr200_7h	0.51	34.96	37.08	35.17	37.08	0.000002	0.05	10.82	8.21	0.01
01	2321	Max WS	Tr200_12h	0.52	34.96	37.18	35.17	37.18	0.000002	0.04	11.68	8.48	0.01
01	2316		Bridge										
01	2311	Max WS	Tr200_2h	0.52	34.96	36.95		36.95	0.000003	0.05	9.79	7.87	0.02
01	2311	Max WS	Tr200_4h	0.54	34.96	36.99		36.99	0.000003	0.05	10.10	7.97	0.02
01	2311	Max WS	Tr200_7h	0.51	34.96	37.08		37.08	0.000002	0.05	10.82	8.21	0.01
01	2311	Max WS	Tr200_12h	0.52	34.96	37.18		37.18	0.000002	0.04	11.68	8.48	0.01
01	2310		Lat Struct										
01	2309		Lat Struct										
01	2271	Max WS	Tr200_2h	0.52	34.91	36.95		36.95	0.000004	0.05	9.43	8.00	0.02
01	2271	Max WS	Tr200_4h	0.54	34.91	36.99		36.99	0.000004	0.06	9.75	8.15	0.02
01	2271	Max WS	Tr200_7h	0.51	34.91	37.08		37.08	0.000003	0.05	10.50	8.49	0.01
01	2271	Max WS	Tr200_12h	0.52	34.91	37.18		37.18	0.000002	0.05	11.39	8.96	0.01
01	2221	Max WS	Tr200_2h	0.52	35.02	36.95		36.95	0.000003	0.05	10.28	8.25	0.01
01	2221	Max WS	Tr200_4h	0.53	35.02	36.99		36.99	0.000003	0.05	10.61	8.36	0.01
01	2221	Max WS	Tr200_7h	0.51	35.02	37.08		37.08	0.000002	0.04	11.36	8.61	0.01
01	2221	Max WS	Tr200_12h	0.52	35.02	37.18		37.18	0.000002	0.04	12.27	9.01	0.01
01	2201	Max WS	Tr200_2h	0.52	35.07	36.95	35.28	36.95	0.000003	0.05	9.84	8.01	0.02
01	2201	Max WS	Tr200_4h	0.53	35.07	36.99	35.28	36.99	0.000003	0.05	10.16	8.12	0.01
01	2201	Max WS	Tr200_7h	0.51	35.07	37.08	35.28	37.08	0.000002	0.05	10.90	8.41	0.01
01	2201	Max WS	Tr200_12h	0.52	35.07	37.18	35.28	37.18	0.000002	0.04	11.78	8.77	0.01
01	2196		Bridge										
01	2191	Max WS	Tr200_2h	0.51	35.07	36.95		36.95	0.000003	0.05	9.84	8.01	0.02
01	2191	Max WS	Tr200_4h	0.53	35.07	36.99		36.99	0.000003	0.05	10.16	8.12	0.01
01	2191	Max WS	Tr200_7h	0.51	35.07	37.08		37.08	0.000002	0.05	10.90	8.41	0.01
01	2191	Max WS	Tr200_12h	0.52	35.07	37.18		37.18	0.000002	0.04	11.78	8.77	0.01
01	2190		Lat Struct										
01	2189		Lat Struct										
01	2171	Max WS	Tr200_2h	0.51	35.15	36.95		36.95	0.000004	0.06	9.17	7.70	0.02
01	2171	Max WS	Tr200_4h	0.53	35.15	36.99		36.99	0.000004	0.06	9.48	7.82	0.02
01	2171	Max WS	Tr200_7h	0.51	35.15	37.08		37.08	0.000003	0.05	10.18	8.09	0.01
01	2171	Max WS	Tr200_12h	0.52	35.15	37.18		37.18	0.000002	0.05	11.04	8.40	0.01
01	2169		Lat Struct										
01	2131	Max WS	Tr200_2h	0.51	35.00	36.95	35.52	36.95	0.000014	0.09	5.91	6.92	0.03
01	2131	Max WS	Tr200_4h	0.52	35.00	36.99	35.52	36.99	0.000013	0.08	6.19	7.07	0.03
01	2131	Max WS	Tr200_7h	0.51	35.00	37.08	35.52	37.08	0.000009	0.07	6.84	7.43	0.02

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	2131	Max WS	Tr200_12h	0.52	35.00	37.18	35.52	37.18	0.000007	0.07	7.62	7.83	0.02
01	2126			Bridge									
01	2121	Max WS	Tr200_2h	0.51	35.00	36.95		36.95	0.000014	0.09	5.91	6.92	0.03
01	2121	Max WS	Tr200_4h	0.52	35.00	36.99		36.99	0.000013	0.08	6.19	7.07	0.03
01	2121	Max WS	Tr200_7h	0.51	35.00	37.08		37.08	0.000009	0.07	6.83	7.43	0.02
01	2121	Max WS	Tr200_12h	0.52	35.00	37.18		37.18	0.000007	0.07	7.62	7.83	0.02
01	2120			Lat Struct									
01	2119			Lat Struct									
01	2071	Max WS	Tr200_2h	0.51	34.78	36.95		36.95	0.000002	0.04	12.35	9.25	0.01
01	2071	Max WS	Tr200_4h	0.52	34.78	36.99		36.99	0.000002	0.04	12.72	9.38	0.01
01	2071	Max WS	Tr200_7h	0.51	34.78	37.08		37.08	0.000001	0.04	13.57	9.67	0.01
01	2071	Max WS	Tr200_12h	0.52	34.78	37.18		37.18	0.000001	0.04	14.59	10.00	0.01
01	2021	Max WS	Tr200_2h	0.51	34.83	36.95		36.95	0.000002	0.04	12.89	9.57	0.01
01	2021	Max WS	Tr200_4h	0.52	34.83	36.99		36.99	0.000001	0.04	13.27	9.66	0.01
01	2021	Max WS	Tr200_7h	0.51	34.83	37.08		37.08	0.000001	0.04	14.14	9.86	0.01
01	2021	Max WS	Tr200_12h	0.52	34.83	37.18		37.18	0.000001	0.03	15.18	10.19	0.01
01	1971	Max WS	Tr200_2h	0.51	34.78	36.95		36.95	0.000001	0.03	16.00	12.93	0.01
01	1971	Max WS	Tr200_4h	0.52	34.78	36.99		36.99	0.000001	0.03	16.52	13.05	0.01
01	1971	Max WS	Tr200_7h	0.51	34.78	37.08		37.08	0.000001	0.03	17.69	13.31	0.01
01	1971	Max WS	Tr200_12h	0.52	34.78	37.18		37.18	0.000001	0.03	19.09	13.61	0.01
01	1921	Max WS	Tr200_2h	0.51	34.72	36.95	34.94	36.95	0.000001	0.03	16.28	12.45	0.01
01	1921	Max WS	Tr200_4h	0.52	34.72	36.99	34.94	36.99	0.000001	0.03	16.77	12.55	0.01
01	1921	Max WS	Tr200_7h	0.51	34.72	37.08	34.94	37.08	0.000001	0.03	17.91	12.81	0.01
01	1921	Max WS	Tr200_12h	0.52	34.72	37.18	34.94	37.18	0.000001	0.03	19.25	13.12	0.01
01	1900			Bridge									
01	1871	Max WS	Tr200_2h	0.51	34.79	36.95		36.95	0.000002	0.04	12.22	8.93	0.01
01	1871	Max WS	Tr200_4h	0.52	34.79	36.99		36.99	0.000002	0.04	12.58	9.09	0.01
01	1871	Max WS	Tr200_7h	0.51	34.79	37.08		37.08	0.000001	0.04	13.40	9.36	0.01
01	1871	Max WS	Tr200_12h	0.52	34.79	37.18		37.18	0.000001	0.04	14.39	9.67	0.01
01	1870			Lat Struct									
01	1869			Lat Struct									
01	1821	Max WS	Tr200_2h	0.51	34.79	36.95		36.95	0.000002	0.04	12.71	9.71	0.01
01	1821	Max WS	Tr200_4h	0.52	34.79	36.99		36.99	0.000002	0.04	13.10	9.86	0.01
01	1821	Max WS	Tr200_7h	0.51	34.79	37.08		37.08	0.000001	0.04	14.00	10.23	0.01
01	1821	Max WS	Tr200_12h	0.52	34.79	37.18		37.18	0.000001	0.03	15.08	10.66	0.01
01	1771	Max WS	Tr200_2h	0.51	34.83	36.95		36.95	0.000002	0.04	12.11	8.95	0.01
01	1771	Max WS	Tr200_4h	0.52	34.83	36.99		36.99	0.000002	0.04	12.47	9.12	0.01
01	1771	Max WS	Tr200_7h	0.51	34.83	37.08		37.08	0.000001	0.04	13.30	9.55	0.01
01	1771	Max WS	Tr200_12h	0.52	34.83	37.18		37.18	0.000001	0.04	14.32	10.08	0.01
01	1721	Max WS	Tr200_2h	0.51	34.75	36.95		36.95	0.000002	0.04	12.56	9.39	0.01
01	1721	Max WS	Tr200_4h	0.52	34.75	36.99		36.99	0.000002	0.04	12.93	9.56	0.01
01	1721	Max WS	Tr200_7h	0.51	34.75	37.08		37.08	0.000001	0.04	13.80	9.95	0.01
01	1721	Max WS	Tr200_12h	0.52	34.75	37.18		37.18	0.000001	0.04	14.86	10.38	0.01
01	1671	Max WS	Tr200_2h	0.51	34.76	36.95	34.99	36.95	0.000002	0.04	12.37	8.86	0.01
01	1671	Max WS	Tr200_4h	0.52	34.76	36.99	34.99	36.99	0.000002	0.04	12.72	8.95	0.01
01	1671	Max WS	Tr200_7h	0.51	34.76	37.08	34.99	37.08	0.000001	0.04	13.53	9.15	0.01
01	1671	Max WS	Tr200_12h	0.52	34.76	37.18	34.99	37.18	0.000001	0.04	14.49	9.39	0.01
01	1666			Bridge									
01	1661	Max WS	Tr200_2h	0.50	34.76	36.95		36.95	0.000002	0.04	12.37	8.86	0.01
01	1661	Max WS	Tr200_4h	0.51	34.76	36.99		36.99	0.000002	0.04	12.72	8.95	0.01
01	1661	Max WS	Tr200_7h	0.51	34.76	37.08		37.08	0.000001	0.04	13.53	9.15	0.01
01	1661	Max WS	Tr200_12h	0.52	34.76	37.18		37.18	0.000001	0.04	14.49	9.39	0.01
01	1660			Lat Struct									
01	1659			Lat Struct									
01	1621	Max WS	Tr200_2h	0.50	34.74	36.95		36.95	0.000002	0.04	12.53	9.48	0.01
01	1621	Max WS	Tr200_4h	0.51	34.74	36.99		36.99	0.000002	0.04	12.91	9.62	0.01
01	1621	Max WS	Tr200_7h	0.51	34.74	37.08		37.08	0.000001	0.04	13.78	9.95	0.01
01	1621	Max WS	Tr200_12h	0.52	34.74	37.18		37.18	0.000001	0.04	14.83	10.36	0.01
01	1571	Max WS	Tr200_2h	0.50	34.74	36.95		36.95	0.000002	0.04	13.29	10.72	0.01
01	1571	Max WS	Tr200_4h	0.51	34.74	36.99		36.99	0.000001	0.04	13.72	11.04	0.01
01	1571	Max WS	Tr200_7h	0.51	34.74	37.08		37.08	0.000001	0.03	14.74	11.68	0.01
01	1571	Max WS	Tr200_12h	0.52	34.74	37.18		37.18	0.000001	0.03	15.99	12.93	0.01
01	1521	Max WS	Tr200_2h	0.50	34.78	36.95		36.95	0.000001	0.04	13.96	10.04	0.01
01	1521	Max WS	Tr200_4h	0.51	34.78	36.99		36.99	0.000001	0.04	14.36	10.14	0.01
01	1521	Max WS	Tr200_7h	0.51	34.78	37.08		37.08	0.000001	0.03	15.27	10.37	0.01
01	1521	Max WS	Tr200_12h	0.52	34.78	37.18		37.18	0.000001	0.03	16.36	10.63	0.01
01	1471	Max WS	Tr200_2h	0.50	34.76	36.95		36.95	0.000002	0.04	12.50	9.70	0.01

HEC-RAS River: Colecchio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	1471	Max WS	Tr200_4h	0.51	34.76	36.99		36.99	0.000002	0.04	12.89	9.84	0.01
01	1471	Max WS	Tr200_7h	0.51	34.76	37.08		37.08	0.000001	0.04	13.78	10.14	0.01
01	1471	Max WS	Tr200_12h	0.52	34.76	37.18		37.18	0.000001	0.04	14.85	10.53	0.01
01	1421	Max WS	Tr200_2h	0.50	34.76	36.95	34.96	36.95	0.000002	0.04	11.93	8.91	0.01
01	1421	Max WS	Tr200_4h	0.51	34.76	36.99	34.96	36.99	0.000002	0.04	12.29	9.01	0.01
01	1421	Max WS	Tr200_7h	0.51	34.76	37.08	34.96	37.08	0.000001	0.04	13.10	9.23	0.01
01	1421	Max WS	Tr200_12h	0.52	34.76	37.18	34.96	37.18	0.000001	0.04	14.07	9.48	0.01
01	1416			Bridge									
01	1411	Max WS	Tr200_2h	0.50	34.76	36.95		36.95	0.000002	0.04	11.93	8.91	0.01
01	1411	Max WS	Tr200_4h	0.51	34.76	36.99		36.99	0.000002	0.04	12.29	9.01	0.01
01	1411	Max WS	Tr200_7h	0.51	34.76	37.08		37.08	0.000001	0.04	13.10	9.23	0.01
01	1411	Max WS	Tr200_12h	0.52	34.76	37.18		37.18	0.000001	0.04	14.07	9.48	0.01
01	1410			Lat Struct									
01	1409			Lat Struct									
01	1371	Max WS	Tr200_2h	0.50	34.72	36.95		36.95	0.000001	0.04	13.30	9.81	0.01
01	1371	Max WS	Tr200_4h	0.51	34.72	36.99		36.99	0.000001	0.04	13.70	10.13	0.01
01	1371	Max WS	Tr200_7h	0.51	34.72	37.08		37.08	0.000001	0.03	14.63	10.83	0.01
01	1371	Max WS	Tr200_12h	0.52	34.72	37.18		37.18	0.000001	0.03	15.79	11.38	0.01
01	1321	Max WS	Tr200_2h	0.50	34.66	36.95		36.95	0.000001	0.03	15.07	10.52	0.01
01	1321	Max WS	Tr200_4h	0.51	34.66	36.99		36.99	0.000001	0.03	15.49	10.68	0.01
01	1321	Max WS	Tr200_7h	0.51	34.66	37.08		37.08	0.000001	0.03	16.46	11.03	0.01
01	1321	Max WS	Tr200_12h	0.52	34.66	37.18		37.18	0.000001	0.03	17.62	11.44	0.01
01	1320			Lat Struct									
01	1271	Max WS	Tr200_2h	0.50	34.62	36.95		36.95	0.000001	0.04	14.27	10.63	0.01
01	1271	Max WS	Tr200_4h	0.51	34.62	36.99		36.99	0.000001	0.03	14.69	10.76	0.01
01	1271	Max WS	Tr200_7h	0.51	34.62	37.08		37.08	0.000001	0.03	15.67	11.05	0.01
01	1271	Max WS	Tr200_12h	0.52	34.62	37.18		37.18	0.000001	0.03	16.83	11.38	0.01
01	1221	Max WS	Tr200_2h	0.50	34.67	36.95		36.95	0.000001	0.03	14.91	10.72	0.01
01	1221	Max WS	Tr200_4h	0.51	34.67	36.99		36.99	0.000001	0.03	15.33	10.86	0.01
01	1221	Max WS	Tr200_7h	0.51	34.67	37.08		37.08	0.000001	0.03	16.31	11.18	0.01
01	1221	Max WS	Tr200_12h	0.52	34.67	37.18		37.18	0.000001	0.03	17.50	11.81	0.01
01	1171	Max WS	Tr200_2h	0.50	34.66	36.95		36.95	0.000001	0.03	14.51	10.49	0.01
01	1171	Max WS	Tr200_4h	0.51	34.66	36.99		36.99	0.000001	0.03	14.93	10.63	0.01
01	1171	Max WS	Tr200_7h	0.51	34.66	37.08		37.08	0.000001	0.03	15.89	11.04	0.01
01	1171	Max WS	Tr200_12h	0.52	34.66	37.18		37.18	0.000001	0.03	17.07	11.74	0.01
01	1121	Max WS	Tr200_2h	0.50	34.57	36.95	34.77	36.95	0.000001	0.03	14.48	9.28	0.01
01	1121	Max WS	Tr200_4h	0.51	34.57	36.99	34.77	36.99	0.000001	0.03	14.85	9.41	0.01
01	1121	Max WS	Tr200_7h	0.51	34.57	37.08	34.77	37.08	0.000001	0.03	15.70	9.69	0.01
01	1121	Max WS	Tr200_12h	0.52	34.57	37.18	34.77	37.18	0.000001	0.03	16.74	11.02	0.01
01	1115			Bridge									
01	1096	Max WS	Tr200_2h	0.50	34.57	36.95		36.95	0.000001	0.03	14.48	9.28	0.01
01	1096	Max WS	Tr200_4h	0.51	34.57	36.99		36.99	0.000001	0.03	14.85	9.41	0.01
01	1096	Max WS	Tr200_7h	0.51	34.57	37.08		37.08	0.000001	0.03	15.70	9.69	0.01
01	1096	Max WS	Tr200_12h	0.52	34.57	37.18		37.18	0.000001	0.03	16.74	11.02	0.01
01	1094			Lat Struct									
01	1093			Lat Struct									
01	1071	Max WS	Tr200_2h	0.50	34.58	36.95		36.95	0.000001	0.04	13.54	10.50	0.01
01	1071	Max WS	Tr200_4h	0.51	34.58	36.99		36.99	0.000001	0.04	13.96	10.70	0.01
01	1071	Max WS	Tr200_7h	0.51	34.58	37.08		37.08	0.000001	0.03	14.93	11.07	0.01
01	1071	Max WS	Tr200_12h	0.52	34.58	37.18		37.18	0.000001	0.03	16.10	11.60	0.01
01	1021	Max WS	Tr200_2h	0.50	34.59	36.95		36.95	0.000001	0.04	13.28	10.31	0.01
01	1021	Max WS	Tr200_4h	0.51	34.59	36.99		36.99	0.000001	0.04	13.69	10.44	0.01
01	1021	Max WS	Tr200_7h	0.51	34.59	37.08		37.08	0.000001	0.03	14.63	10.72	0.01
01	1021	Max WS	Tr200_12h	0.52	34.59	37.18		37.18	0.000001	0.03	15.76	11.04	0.01
01	971	Max WS	Tr200_2h	0.50	34.60	36.95		36.95	0.000002	0.04	13.25	10.47	0.01
01	971	Max WS	Tr200_4h	0.51	34.60	36.99		36.99	0.000001	0.04	13.67	10.57	0.01
01	971	Max WS	Tr200_7h	0.51	34.60	37.08		37.08	0.000001	0.03	14.62	10.80	0.01
01	971	Max WS	Tr200_12h	0.52	34.60	37.18		37.18	0.000001	0.03	15.76	11.06	0.01
01	921	Max WS	Tr200_2h	0.50	34.45	36.95		36.95	0.000002	0.04	12.96	9.98	0.01
01	921	Max WS	Tr200_4h	0.51	34.45	36.99		36.99	0.000001	0.04	13.37	10.21	0.01
01	921	Max WS	Tr200_7h	0.51	34.45	37.08		37.08	0.000001	0.04	14.29	10.54	0.01
01	921	Max WS	Tr200_12h	0.52	34.45	37.18		37.18	0.000001	0.03	15.40	10.92	0.01
01	871	Max WS	Tr200_2h	0.50	34.57	36.95		36.95	0.000001	0.04	13.63	9.60	0.01
01	871	Max WS	Tr200_4h	0.51	34.57	36.99		36.99	0.000001	0.04	14.02	9.73	0.01
01	871	Max WS	Tr200_7h	0.51	34.57	37.08		37.08	0.000001	0.03	14.90	10.12	0.01
01	871	Max WS	Tr200_12h	0.52	34.57	37.18		37.18	0.000001	0.03	15.98	10.72	0.01
01	856	Max WS	Tr200_2h	0.50	34.57	36.95	34.84	36.95	0.000001	0.04	13.63	9.60	0.01
01	856	Max WS	Tr200_4h	0.51	34.57	36.99	34.84	36.99	0.000001	0.04	14.02	9.73	0.01
01	856	Max WS	Tr200_7h	0.51	34.57	37.08	34.84	37.08	0.000001	0.03	14.90	10.12	0.01

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
01	856	Max WS	Tr200_12h	0.52	34.57	37.18	34.85	37.18	0.000001	0.03	15.98	10.72	0.01
01	830			Bridge									
01	806	Max WS	Tr200_2h	0.50	34.57	36.95		36.95	0.000001	0.04	13.62	9.60	0.01
01	806	Max WS	Tr200_4h	0.50	34.57	36.99		36.99	0.000001	0.04	14.00	9.73	0.01
01	806	Max WS	Tr200_7h	0.51	34.57	37.08		37.08	0.000001	0.03	14.89	10.12	0.01
01	806	Max WS	Tr200_12h	0.52	34.57	37.18		37.18	0.000001	0.03	15.96	10.71	0.01
01	805			Lat Struct									
01	804			Lat Struct									
01	771	Max WS	Tr200_2h	0.50	34.33	36.95		36.95	0.000001	0.03	15.15	9.85	0.01
01	771	Max WS	Tr200_4h	0.50	34.33	36.99		36.99	0.000001	0.03	15.54	9.94	0.01
01	771	Max WS	Tr200_7h	0.51	34.33	37.08		37.08	0.000001	0.03	16.43	10.13	0.01
01	771	Max WS	Tr200_12h	0.52	34.33	37.18		37.18	0.000001	0.03	17.49	10.36	0.01
01	721	Max WS	Tr200_2h	0.50	34.31	36.95	34.64	36.95	0.000001	0.03	14.25	8.99	0.01
01	721	Max WS	Tr200_4h	0.50	34.31	36.99	34.63	36.99	0.000001	0.03	14.61	9.11	0.01
01	721	Max WS	Tr200_7h	0.51	34.31	37.08	34.64	37.08	0.000001	0.03	15.43	9.38	0.01
01	721	Max WS	Tr200_12h	0.52	34.31	37.18	34.64	37.18	0.000001	0.03	16.42	9.70	0.01
01	690			Bridge									
01	681	Max WS	Tr200_2h	0.50	34.31	36.95		36.95	0.000001	0.03	14.25	8.99	0.01
01	681	Max WS	Tr200_4h	0.50	34.31	36.99		36.99	0.000001	0.03	14.61	9.11	0.01
01	681	Max WS	Tr200_7h	0.51	34.31	37.08		37.08	0.000001	0.03	15.43	9.38	0.01
01	681	Max WS	Tr200_12h	0.52	34.31	37.18		37.18	0.000001	0.03	16.42	9.70	0.01
01	680			Lat Struct									
01	679			Lat Struct									
01	671	Max WS	Tr200_2h	0.50	34.38	36.95		36.95	0.000001	0.03	14.78	9.88	0.01
01	671	Max WS	Tr200_4h	0.50	34.38	36.99		36.99	0.000001	0.03	15.17	9.99	0.01
01	671	Max WS	Tr200_7h	0.51	34.38	37.08		37.08	0.000001	0.03	16.07	10.22	0.01
01	671	Max WS	Tr200_12h	0.52	34.38	37.18		37.18	0.000001	0.03	17.15	10.50	0.01
01	621	Max WS	Tr200_2h	0.50	34.37	36.95		36.95	0.000001	0.03	15.08	10.41	0.01
01	621	Max WS	Tr200_4h	0.50	34.37	36.99		36.99	0.000001	0.03	15.50	10.54	0.01
01	621	Max WS	Tr200_7h	0.51	34.37	37.08		37.08	0.000001	0.03	16.45	10.85	0.01
01	621	Max WS	Tr200_12h	0.52	34.37	37.18		37.18	0.000001	0.03	17.60	11.23	0.01
01	571	Max WS	Tr200_2h	0.50	34.16	36.95	34.54	36.95	0.000001	0.04	13.92	8.64	0.01
01	571	Max WS	Tr200_4h	0.50	34.16	36.99	34.54	36.99	0.000001	0.04	14.27	8.76	0.01
01	571	Max WS	Tr200_7h	0.51	34.16	37.08	34.54	37.08	0.000001	0.03	15.06	9.05	0.01
01	571	Max WS	Tr200_12h	0.52	34.16	37.18	34.54	37.18	0.000001	0.03	16.02	9.56	0.01
01	566			Bridge									
01	561	Max WS	Tr200_2h	0.50	34.16	36.95		36.95	0.000001	0.04	13.92	8.64	0.01
01	561	Max WS	Tr200_4h	0.50	34.16	36.99		36.99	0.000001	0.04	14.27	8.76	0.01
01	561	Max WS	Tr200_7h	0.51	34.16	37.08		37.08	0.000001	0.03	15.06	9.05	0.01
01	561	Max WS	Tr200_12h	0.52	34.16	37.18		37.18	0.000001	0.03	16.02	9.56	0.01
01	560			Lat Struct									
01	559			Lat Struct									
01	521	Max WS	Tr200_2h	0.50	34.08	36.95		36.95	0.000001	0.03	16.46	10.04	0.01
01	521	Max WS	Tr200_4h	0.50	34.08	36.99		36.99	0.000001	0.03	16.86	10.19	0.01
01	521	Max WS	Tr200_7h	0.51	34.08	37.08		37.08	0.000001	0.03	17.78	10.54	0.01
01	521	Max WS	Tr200_12h	0.52	34.08	37.18		37.18	0.000001	0.03	18.90	10.98	0.01
01	471	Max WS	Tr200_2h	0.50	34.06	36.95		36.95	0.000001	0.03	16.53	10.26	0.01
01	471	Max WS	Tr200_4h	0.50	34.06	36.99		36.99	0.000001	0.03	16.94	10.43	0.01
01	471	Max WS	Tr200_7h	0.51	34.06	37.08		37.08	0.000001	0.03	17.89	10.83	0.01
01	471	Max WS	Tr200_12h	0.52	34.06	37.18		37.18	0.000001	0.03	19.03	11.19	0.01
01	421	Max WS	Tr200_2h	0.50	34.23	36.95		36.95	0.000001	0.03	16.43	10.42	0.01
01	421	Max WS	Tr200_4h	0.50	34.23	36.99		36.99	0.000001	0.03	16.85	10.54	0.01
01	421	Max WS	Tr200_7h	0.51	34.23	37.08		37.08	0.000001	0.03	17.80	10.82	0.01
01	421	Max WS	Tr200_12h	0.52	34.23	37.18		37.18	0.000001	0.03	18.94	11.15	0.01
01	371	Max WS	Tr200_2h	0.50	34.07	36.95		36.95	0.000001	0.03	17.43	11.03	0.01
01	371	Max WS	Tr200_4h	0.50	34.07	36.99		36.99	0.000001	0.03	17.87	11.15	0.01
01	371	Max WS	Tr200_7h	0.51	34.07	37.08		37.08	0.000001	0.03	18.87	11.45	0.01
01	371	Max WS	Tr200_12h	0.52	34.07	37.18		37.18	0.000000	0.03	20.08	11.84	0.01
01	321	Max WS	Tr200_2h	0.50	33.98	36.95		36.95	0.000001	0.03	17.29	10.42	0.01
01	321	Max WS	Tr200_4h	0.50	33.98	36.99		36.99	0.000001	0.03	17.70	10.54	0.01
01	321	Max WS	Tr200_7h	0.51	33.98	37.08		37.08	0.000001	0.03	18.65	10.82	0.01
01	321	Max WS	Tr200_12h	0.52	33.98	37.18		37.18	0.000000	0.03	19.79	11.19	0.01
01	271	Max WS	Tr200_2h	0.50	33.94	36.95		36.95	0.000001	0.03	16.49	11.24	0.01
01	271	Max WS	Tr200_4h	0.50	33.94	36.99		36.99	0.000001	0.03	16.94	11.35	0.01
01	271	Max WS	Tr200_7h	0.51	33.94	37.08		37.08	0.000001	0.03	17.97	11.59	0.01
01	271	Max WS	Tr200_12h	0.52	33.94	37.18		37.18	0.000001	0.03	19.18	11.87	0.01
01	221	Max WS	Tr200_2h	0.50	34.00	36.95		36.95	0.000001	0.03	17.80	11.06	0.01

HEC-RAS River: Coleccio Reach: 01 Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
01	221	Max WS	Tr200_4h	0.50	34.00	36.99		36.99	0.000001	0.03	18.24	11.16	0.01
01	221	Max WS	Tr200_7h	0.51	34.00	37.08		37.08	0.000001	0.03	19.24	11.39	0.01
01	221	Max WS	Tr200_12h	0.52	34.00	37.18		37.18	0.000000	0.03	20.44	11.65	0.01
01	171	Max WS	Tr200_2h	0.50	34.10	36.95		36.95	0.000001	0.03	16.45	10.43	0.01
01	171	Max WS	Tr200_4h	0.50	34.10	36.99		36.99	0.000001	0.03	16.87	11.53	0.01
01	171	Max WS	Tr200_7h	0.51	34.10	37.08		37.08	0.000001	0.03	17.91	11.78	0.01
01	171	Max WS	Tr200_12h	0.52	34.10	37.18		37.18	0.000001	0.03	19.14	12.07	0.01
01	121	Max WS	Tr200_2h	0.50	33.92	36.95		36.95	0.000001	0.03	15.70	10.18	0.01
01	121	Max WS	Tr200_4h	0.50	33.92	36.99		36.99	0.000001	0.03	16.11	10.29	0.01
01	121	Max WS	Tr200_7h	0.51	33.92	37.07		37.08	0.000001	0.03	17.04	10.53	0.01
01	121	Max WS	Tr200_12h	0.52	33.92	37.18		37.18	0.000001	0.03	18.15	10.82	0.01
01	71	Max WS	Tr200_2h	0.50	33.83	36.95	34.02	36.95	0.000000	0.02	20.38	9.28	0.01
01	71	Max WS	Tr200_4h	0.50	33.83	36.99	34.02	36.99	0.000000	0.02	20.77	10.40	0.01
01	71	Max WS	Tr200_7h	0.51	33.83	37.07	34.02	37.07	0.000000	0.02	21.71	10.67	0.01
01	71	Max WS	Tr200_12h	0.52	33.83	37.18	34.02	37.18	0.000000	0.02	22.83	10.98	0.01
01	69			Inl Struct									
01	66	Max WS	Tr200_2h	0.50	33.00	33.61		33.62	0.001051	0.47	1.05	2.46	0.23
01	66	Max WS	Tr200_4h	0.50	33.00	33.61		33.62	0.001050	0.47	1.06	2.47	0.23
01	66	Max WS	Tr200_7h	0.51	33.00	33.62		33.63	0.001046	0.47	1.08	2.48	0.23
01	66	Max WS	Tr200_12h	0.52	33.00	33.62		33.64	0.001042	0.48	1.09	2.50	0.23
01	21	Max WS	Tr200_2h	0.50	32.86	33.56	33.18	33.57	0.001008	0.47	1.05	2.23	0.22
01	21	Max WS	Tr200_4h	0.50	32.86	33.57	33.18	33.58	0.001006	0.47	1.06	2.23	0.22
01	21	Max WS	Tr200_7h	0.51	32.86	33.57	33.18	33.58	0.001007	0.48	1.07	2.24	0.22
01	21	Max WS	Tr200_12h	0.52	32.86	33.58	33.19	33.59	0.001007	0.48	1.09	2.26	0.22

ALLEGATO 4

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE01	Max WS	Tr20_2h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr20_4h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr20_7h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr20_12h	36.40	36.40	0.00	1.81	0.00
APE02	Max WS	Tr20_2h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr20_4h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr20_7h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr20_12h	35.80	35.80	0.00	0.62	0.00
APE03	Max WS	Tr20_2h	36.22	35.40	0.24	29.89	3.25
APE03	Max WS	Tr20_4h	36.40	35.40	0.71	90.76	8.69
APE03	Max WS	Tr20_7h	36.68	35.40	3.58	168.93	40.40
APE03	Max WS	Tr20_12h	36.96	35.40	5.93	231.22	97.23
APE04	Max WS	Tr20_2h	36.86	35.80	5.57	261.41	65.26
APE04	Max WS	Tr20_4h	36.97	35.80	6.72	261.41	94.66
APE04	Max WS	Tr20_7h	37.04	35.80	4.92	365.80	116.16
APE04	Max WS	Tr20_12h	37.06	35.80	2.88	365.80	124.75
APE05	Max WS	Tr20_2h	38.56	37.60	1.44	46.50	11.22
APE05	Max WS	Tr20_4h	38.68	37.60	2.25	72.89	19.20
APE05	Max WS	Tr20_7h	38.69	37.60	1.51	72.89	19.85
APE05	Max WS	Tr20_12h	38.60	37.60	1.02	72.89	13.27
APE06	Max WS	Tr20_2h	38.60	37.60	0.18	24.93	4.00
APE06	Max WS	Tr20_4h	38.64	37.60	0.17	24.93	5.03
APE06	Max WS	Tr20_7h	38.65	37.60	0.25	24.93	5.32
APE06	Max WS	Tr20_12h	38.62	37.60	0.05	24.93	4.52
APE07	Max WS	Tr20_2h	39.84	39.60	0.33	2.55	0.21
APE07	Max WS	Tr20_4h	39.98	39.60	1.59	2.55	0.56
APE07	Max WS	Tr20_7h	39.91	39.60	3.26	2.55	0.39
APE07	Max WS	Tr20_12h	39.79	39.60	0.28	0.50	0.09
APE08	Max WS	Tr20_2h	39.84	39.40	0.85	0.17	0.07
APE08	Max WS	Tr20_4h	39.98	39.40	4.09	0.17	0.10
APE08	Max WS	Tr20_7h	39.91	39.40	2.23	0.17	0.09
APE08	Max WS	Tr20_12h	39.78	39.40	0.77	0.17	0.06

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
APE01	Max WS	Tr30_2h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr30_4h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr30_7h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr30_12h	36.40	36.40	0.00	1.81	0.00
APE02	Max WS	Tr30_2h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr30_4h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr30_7h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr30_12h	35.80	35.80	0.00	0.62	0.00
APE03	Max WS	Tr30_2h	36.23	35.40	0.24	29.89	3.53
APE03	Max WS	Tr30_4h	36.57	35.40	1.96	90.76	23.91
APE03	Max WS	Tr30_7h	36.82	35.40	5.27	231.22	65.59
APE03	Max WS	Tr30_12h	37.01	35.40	3.75	312.14	110.91
APE04	Max WS	Tr30_2h	36.90	35.80	6.28	261.41	75.06
APE04	Max WS	Tr30_4h	37.02	35.80	6.46	365.80	107.80
APE04	Max WS	Tr30_7h	37.06	35.80	5.15	365.80	123.63
APE04	Max WS	Tr30_12h	37.07	35.80	3.27	365.80	128.65
APE05	Max WS	Tr30_2h	38.64	37.60	1.84	72.89	16.07
APE05	Max WS	Tr30_4h	38.72	37.60	1.76	72.89	21.78
APE05	Max WS	Tr30_7h	38.72	37.60	1.03	72.89	21.96
APE05	Max WS	Tr30_12h	38.67	37.60	0.88	72.89	18.51
APE06	Max WS	Tr30_2h	38.62	37.60	0.20	24.93	4.48
APE06	Max WS	Tr30_4h	38.68	37.60	0.62	24.93	6.08
APE06	Max WS	Tr30_7h	38.69	37.60	0.50	24.93	6.28
APE06	Max WS	Tr30_12h	38.64	37.60	0.35	24.93	4.93
APE07	Max WS	Tr30_2h	39.90	39.60	-0.12	2.55	0.36
APE07	Max WS	Tr30_4h	40.03	39.60	17.18	8.67	0.84
APE07	Max WS	Tr30_7h	39.96	39.60	12.90	2.55	0.51
APE07	Max WS	Tr30_12h	39.81	39.60	0.26	2.55	0.14
APE08	Max WS	Tr30_2h	39.90	39.40	0.51	0.17	0.08
APE08	Max WS	Tr30_4h	40.03	39.40	15.95	1.78	0.15
APE08	Max WS	Tr30_7h	39.96	39.40	14.32	0.17	0.09
APE08	Max WS	Tr30_12h	39.81	39.40	0.50	0.17	0.07

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE01	Max WS	Tr100_2h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr100_4h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr100_7h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr100_12h	36.40	36.40	0.00	1.81	0.00
APE02	Max WS	Tr100_2h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr100_4h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr100_7h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr100_12h	35.80	35.80	0.00	0.62	0.00
APE03	Max WS	Tr100_2h	36.49	35.40	1.60	90.76	16.71
APE03	Max WS	Tr100_4h	36.85	35.40	6.35	231.22	71.30
APE03	Max WS	Tr100_7h	37.03	35.40	5.46	312.14	115.67
APE03	Max WS	Tr100_12h	37.12	35.40	0.65	312.14	145.07
APE04	Max WS	Tr100_2h	37.01	35.80	8.31	365.80	106.58
APE04	Max WS	Tr100_4h	37.08	35.80	8.74	365.80	130.88
APE04	Max WS	Tr100_7h	37.10	35.80	4.90	365.80	140.14
APE04	Max WS	Tr100_12h	37.12	35.80	11.06	365.80	147.05
APE05	Max WS	Tr100_2h	38.74	37.60	0.91	72.89	23.20
APE05	Max WS	Tr100_4h	38.76	37.60	1.54	72.89	25.02
APE05	Max WS	Tr100_7h	38.76	37.60	0.61	72.89	24.85
APE05	Max WS	Tr100_12h	38.73	37.60	0.06	72.89	22.65
APE06	Max WS	Tr100_2h	38.72	37.60	1.40	24.93	6.95
APE06	Max WS	Tr100_4h	38.76	37.60	0.61	24.93	8.07
APE06	Max WS	Tr100_7h	38.76	37.60	0.46	24.93	7.98
APE06	Max WS	Tr100_12h	38.72	37.60	0.06	24.93	6.89
APE07	Max WS	Tr100_2h	40.07	39.60	21.17	8.67	1.18
APE07	Max WS	Tr100_4h	40.18	39.60	8.05	8.67	2.16
APE07	Max WS	Tr100_7h	40.09	39.60	3.66	8.67	1.37
APE07	Max WS	Tr100_12h	39.91	39.60	1.49	2.55	0.39
APE08	Max WS	Tr100_2h	40.07	39.40	22.42	1.78	0.22
APE08	Max WS	Tr100_4h	40.18	39.40	9.40	1.78	0.42
APE08	Max WS	Tr100_7h	40.09	39.40	4.49	1.78	0.25
APE08	Max WS	Tr100_12h	39.91	39.40	2.77	0.17	0.09

HEC-RAS Profile: Max WS

Storage Area	Profile	Plan	W.S. Elev	SA Min El	Net Flux	SA Area	SA Volume
			(m)	(m)	(m3/s)	(1000 m2)	(1000 m3)
APE01	Max WS	Tr200_2h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr200_4h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr200_7h	36.40	36.40	0.00	1.81	0.00
APE01	Max WS	Tr200_12h	36.40	36.40	0.00	1.81	0.00
APE02	Max WS	Tr200_2h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr200_4h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr200_7h	35.80	35.80	0.00	0.62	0.00
APE02	Max WS	Tr200_12h	35.80	35.80	0.00	0.62	0.00
APE03	Max WS	Tr200_2h	36.65	35.40	3.49	168.93	35.20
APE03	Max WS	Tr200_4h	36.97	35.40	9.17	231.22	100.83
APE03	Max WS	Tr200_7h	37.08	35.40	5.14	312.14	133.27
APE03	Max WS	Tr200_12h	37.19	35.40	0.00	312.14	164.66
APE04	Max WS	Tr200_2h	37.05	35.80	9.17	365.80	121.07
APE04	Max WS	Tr200_4h	37.10	35.80	6.75	365.80	140.14
APE04	Max WS	Tr200_7h	37.12	35.80	3.16	365.80	146.27
APE04	Max WS	Tr200_12h	37.19	35.80	10.97	365.80	170.02
APE05	Max WS	Tr200_2h	38.76	37.60	1.07	72.89	24.71
APE05	Max WS	Tr200_4h	38.80	37.60	5.37	72.89	27.65
APE05	Max WS	Tr200_7h	38.79	37.60	3.61	72.89	26.94
APE05	Max WS	Tr200_12h	38.74	37.60	0.03	72.89	23.49
APE06	Max WS	Tr200_2h	38.76	37.60	0.33	24.93	7.93
APE06	Max WS	Tr200_4h	38.80	37.60	0.67	24.93	8.90
APE06	Max WS	Tr200_7h	38.79	37.60	0.44	24.93	8.68
APE06	Max WS	Tr200_12h	38.74	37.60	0.58	24.93	7.37
APE07	Max WS	Tr200_2h	40.16	39.60	24.96	8.67	1.99
APE07	Max WS	Tr200_4h	40.24	39.60	10.16	23.00	3.21
APE07	Max WS	Tr200_7h	40.16	39.60	37.68	8.67	2.04
APE07	Max WS	Tr200_12h	39.98	39.60	1.12	2.55	0.55
APE08	Max WS	Tr200_2h	40.16	39.40	22.29	1.78	0.38
APE08	Max WS	Tr200_4h	40.24	39.40	11.65	18.06	1.13
APE08	Max WS	Tr200_7h	40.16	39.40	39.51	1.78	0.39
APE08	Max WS	Tr200_12h	39.98	39.40	3.67	0.17	0.10