WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	Kitchen Creek
Station	KTC5

Sampling Date:	18-Jun-97

SAMPLER	DWG
UNIT	YSI #1

YSI Datasonde Physicochemical Data

DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
06/18/97 09:31	61897	101603	19.05	0.473	81.6	7.55	0	7.71	83	0.272
06/18/97 09:31	61897	101630	19.07	0.473	81.6	7.54	0	7.71	83	0.272
06/18/97 09:33	61897	101811	19.11	0.471	81.8	7.56	0	7.71	83	0.272
06/18/97 09:37	61897	102246	19.29	0.471	83.1	7.65	0	7.72	83	0.273
06/18/97 09:43	61897	102846	19.47	0.471	84.7	7.77	0	7.73	83	0.274
AVERAGE			19.20	0.472	82.56	7.61	0.00	7.72	83.00	0.27

Observations:		
Flow		cfs
Habitat Score		
Sky		
Wind		
Direction		
Air Temp		F

Samples Taken	Number
Nutrients	
TON/Turbidity	
Metals	
Bacti	
Solids	
Plankton	
TOC	
BMI	
CPOM	
Organics	
Crypto-Giardia	

Comments:

Watershed sampling and surveillance.

Water Chemistry Profile

Constituents	HACH Method	Results
NH4-N (mg/l)	380	
NO2-N (mg/l)	371	
NO3-N (mg/l)	351	
PO4 P (mg/l)	490	
Turbidity (NTU)	2100P	
Mn (mg/l)	290	
Fe (Ferrous, mg/l)	255	
Cu (mg/l)	135	
Al (mg/l)	10	
Analysis Date:	01-Jan-97	
Analyst:		

Rapid Bioassessment Protocol

Habitat Assessment			
Ref. Sta.	Score	% Comp.	Rating
CWD3a	143	0.00%	
LCC2	113	0.00%	
		#DIV/0!	
		#DIV/0!	
Ideal	155	0.00%	
Analysis Date:		01-Jan-97	
Analyst:			

Benthic Macroinvertebrates				
Metric	Ref. Sta.	Study Site	% Comp.	Rating
MFBI				
TR				
PER CONT				
EPT				
% EPT				
EPT/CHIR				
SCFL				
HBI				
CLI				
Analysis Date:		01-Jan-97		
Analyst:				

Habitat Assessment Scale

> 90%	Comparable to reference	Excellent
75-88%	Supporting	Good
60-73%	Partially supporting	Fair
<58%	Not supporting	Poor

Metric Assessment Scale

Metric	Excellent	Very Good	Good	Fair	Poor
MFBI					
TR					
PER CONT					
EPT					
% EPT					
EPT/CHIR					
SCFL					
HBI					
CLI					

fthna
ECT2-169

YSI WATER QUALITY PROFILE REPORT SHEET

Watershed	Cottonwood
Drainage	Kitchen Creek
Station	KTC2

DATE: 12-Mar-97

SAMPLER: DWG

UNIT: YSI #1

DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
03/12/97 11:41	31297	123602	13.03	0.504	88.3	9.28	0	8.14	201	0.253
03/12/97 11:44	31297	123917	13.07	0.504	80.3	8.43	0	8.15	205	0.253
03/12/97 11:47	31297	124229	13.1	0.505	79.9	8.38	0	8.16	208	0.253

Observations:

Flow	1.88	cfs
Sky	clear	
Wind	5	
Direction	w	
Air Temp	14.23	C

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	0
Organics	0
Crypto-Giardia	0

Comments:

Site inspection and sampling. Illegal Immigrant Impact Project sampling today on Troy and Long Canyon Creeks. KTC2 and KTC5 sampled for general watershed monitoring and comparison.

KTC2-071

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	Kitchen Creek
Station	KTC5

Sampling Date:	29-Jan-98

SAMPLER	DWG
UNIT	207002

YSI Datasonde Physicochemical Data

DATE MM/DD/YY	TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	TDS g/l	DO % sat	DO CONC mg/l	Depth m	pH log units	ORP mV	Salinity ppt
01/29/98	10:28	12998	101759	7.09	396	167.0	76.60	9.26	0.2	8.32	161	
01/29/98	10:29	12998	101902	7.1	396	167.0	76.00	9.19	0	8.32	161	
01/29/98	10:32	12998	102237	7.12	396	167.0	74.60	9.01	0	8.32	163	
01/29/98	10:34	12998	102353	7.13	396	167.0	74.20	8.96	0	8.32	163	
AVERAGE				7.11	396	167.0	75.35	9.11	0	8.32	162	#DIV/0!

Observations		
Flow	1.02	cfs
Habitat Score	128	
Sky	cldy/rain	
Wind	2-3	
Direction	SW	
Air Temp	47.6F	C

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	0
Organics	0
Crypto-Giardia	0

Comments:

Water Chemistry Profile

Constituents	HACH Method	Results
NH4-N (mg/l)	380	
NO2-N (mg/l)	371	
NO3-N (mg/l)	355	
PO4 P (mg/l)	490	
Turbidity (NTU)	2100P	
Mn (mg/l)	290	
Fe (Ferrous, mg/l)	255	
Cu (mg/l)	135	
Al (mg/l)	10	
Analysis Date:		01-Jan-98
Analyst:		DWG

Rapid Bioassessment Protocol

Habitat Assessment	Ref Sta	Score	% Comp	Rating
	CWD3a	143	89.51%	Good
	LCC2	113	113.27%	Excellent
	Ideal	155	82.58%	Good
Analysis Date:			01-Jan-98	
Analyst:			DWG	

Benthic Macroinvertebrates	Ref Sta	Study Site	% Comp	Rating
MFBI				
TR				
PER CONT				
EPT				
% EPT				
EPT/CHIR				
SCFL				
HBI				
CLI				
Analysis Date:		01-Jan-98		
Analyst:		DWG		

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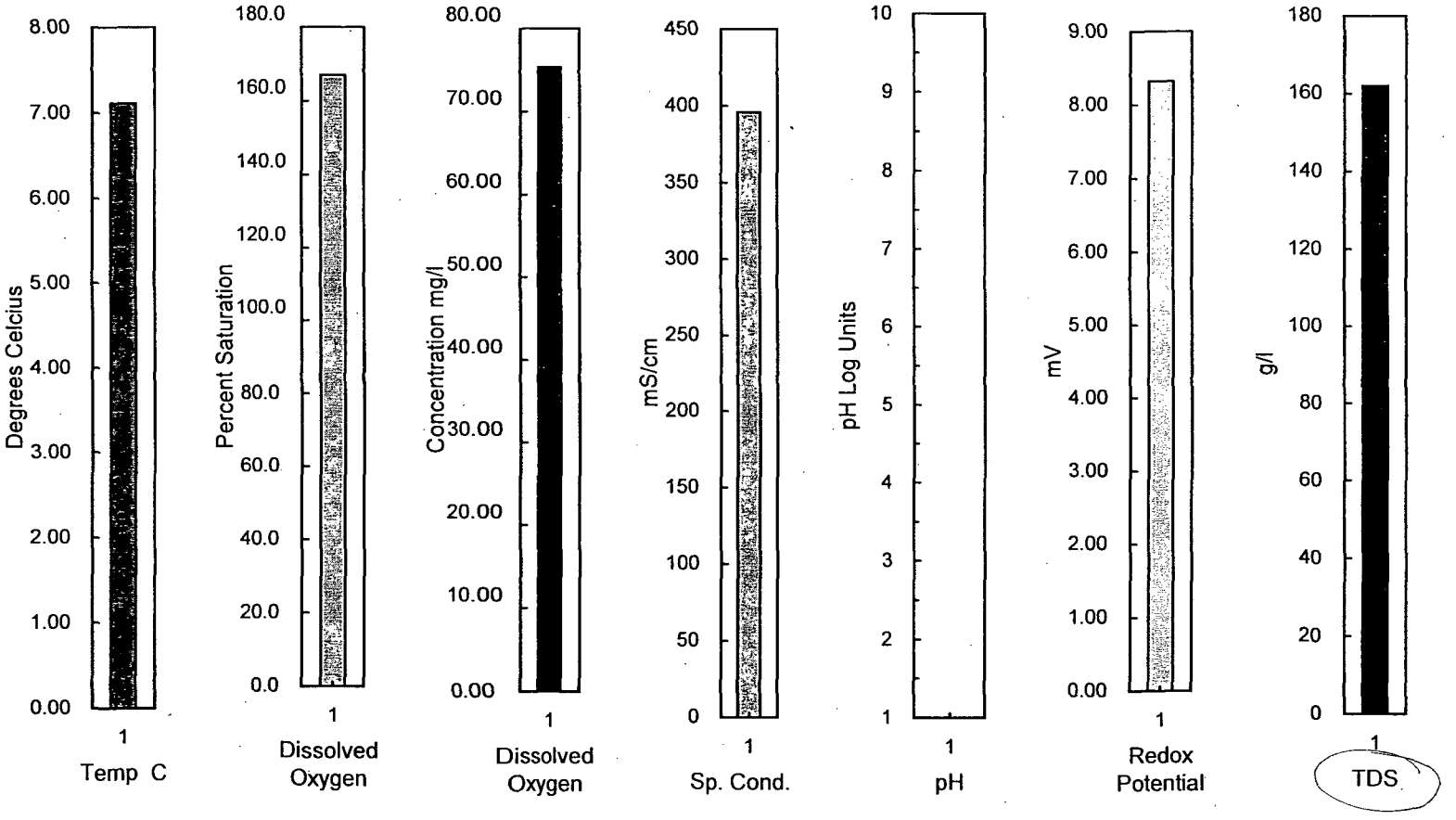
Lower San Diego River Watershed SDR10 October 10, 1997



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Stream Discharge WorkSheet

Station	KTC5		
Width	2.40	Flow Q =	1.02
Width/7	0.34		
Depth 1	0.26	Velocity 1	0.55
Depth 2	0.50	Velocity 2	0.76
Depth 3	0.40	Velocity 3	1.04
Mid Depth	0.58	Mid Vel.	0.94
Depth 5	0.58	Velocity 5	0.87
Depth 6	0.66	Velocity 6	0.76
Depth 7	0.60	Velocity 7	0.79

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Species Level Benthic Macroinvertebrates Worksheet

Data Entry

Notes: **Report**
Total Specimens
MFBI
TR
EPT Index
EPT/CHIR

Ephemeroptera	C	No. Family	No. species	MFBI Value	HBI Value	Calc MFBI	Calc HBI	
Baetidae	1	0		4		0		
Baetis sp. A							0	
Baetis sp. B							0	
Baetis bicaudatus							0	
Baetis intercalaris							0	
Baetis parvus							0	
Baetis tricaudatus							0	
Callibaetis sp.							0	
Enallagma sp.							0	
							0	
Totals	0		0		0	0	0	
Caenidae	1	0		7		0		
Caenis sp.							0	
Caenis tardata							0	
							0	
Totals	0		0		0	0	0	
Ephemerellidae	0	0		1		0		
Drunella sp.							0	
Ephemerella sp.							0	
Seratella sp.							0	
							0	
Totals	0		0		0	0	0	
Heptageniidae	1	0		4		0		
Epeorus sp.							0	
Ironodes sp.							0	
Ironodes californicus							0	
Rhithrogena sp.							0	
							0	
Totals	0		0		0	0	0	
Tricorythidae	1	0		4		0		
Tricorythodes sp.							0	
Tricorythodes fallax							0	
							0	
Totals	0		0		0	0	0	

Plecoptera		No. Family	No. species	MFBI Value	HBI Value	Calc MFBI	Calc HBI	
Capnildae		0		1		0		
Capnia sp.							0	
							0	
Totals	0		0		0	0	0	
Chloroperlidae		0		1		0		
Sweltsa sp.							0	
Sweltsa continua							0	
Sweltsa pacifica							0	syn A. spatulata
Sweltsa townesi							0	
Haploperla chilnualna							0	Can occur in slow lowland coastal plain
Plumiperla diversa							0	
Plumiperla spinosa							0	
							0	
Totals	0		0		0	0	0	
Nemouridae		0		2		0		
Malenka sp.							0	
Malenka biloba							0	
Malenka californica							0	
Malenka depressa							0	
Malenka marionae							0	
Nemoura spiniloba								
Prtostoia besametsa								
Soyedina nevadensis								
Soyedina producta								
Visoka cataractae								
Zapada sp.							0	
Zapada cinctipes							0	

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Zapada columbiana							0
Zapada cordillera							0
Zapada frigida							0
Zapada haysi							0
Zapada oregonensis							0
							0
Totals	0		0		0	0	0

Perlidae				1			
Calineuria californica							
Claassenia sabulosa							
Doroneuria baumanni							
Hesperoperla hoguei							
Hesperoperla pacifica							
Totals	0						

Perlodidae				2			
Baumannela alameda							
Calliperla luctosa							
Cascadoperla trictura							
Chernokrilus erratus							
Chernokrilus misnomus							
Chernokrilus venustus							
Cosumnoperla hypocrena							
Cultus pilatus							
Cultus tostonus							
Frisonia picticeps							
Isogenoides colubrinus							
Isoperla acula							
Isoperla adunca							
Isoperla baumanni							
Isoperla bifurcata							
Isoperla denningi							
Isoperla fulva							
Isoperla marmorata							
Isoperla mormona							
Isoperla pinta							
Isoperla quinquepunctata							
Isoperla roguensis							
Isoperla sobria							
Isoperla sordida							
Kogutus nonus							
Megarcys subtruncata							
Megarcys yosemite							
Oroperla barbara							
Osobenus yakimae							
Perlinodes aureus							
Rickera sorpta							
Salmoperla sylvanica							
Skwala curvata							
Totals							

Taeniopterygidae				2			

Trichoptera

Brachycentridae				1			

Amiocentrus aspilus
Brachycentrus sp.
Micrasema sp.
Micrasema onisca

Glossosomatidae				0			

Helicopyschidae				3			

Hydropsychidae				4			

Hydroptilidae				4			
Lepidostomatidae				1			
Leptoceridae				1			
Limnephilidae				4			
Philopotamidae				3			
Polycentropodidae				6			
Pyschomyiidae				2			
Rhyacophilidae				0			
Sericostomatidae				3			

Odonata	
Aeshnidae	3
Calopterygidae	5
Coenagrionidae	9
Cordulegastridae	3
Gomphidae	1
Libellulidae	9
Diptera	
Athericidae	2
Blephariceridae	0
Ceratopogonidae	6
Chironomidae R	8
Chironomidae O	6
Dolichopodidae	4
Empididae	6
Eyphydridae	6
Pyschodidae	10
Simuliidae	6
Muscidae	6
Syrphidae	10
Tabanidae	6
Tipulidae	3
Coleoptera	
Dryopidae	5
Elmidae	4
Psephenidae	4
Megaloptera	
Corydalidae	0
Sialidae	4
Lepidoptera	
Pyralidae	5
Amphipoda	
Gammaridae	4
Talitridae	8
Isopoda	
Asellidae	8

rivers

Family Level Benthic Macroinvertebrates Worksheet

Data Entry

Ephemeroptera	C	Number	MFBI Value	Calc MFBI
Baetidae	1	12	4	48
Caenidae	1	23	7	161
Ephemerellidae			1	0
Heptageniidae			4	0
Tricorythidae			4	0
				0
Totals	**2**	**35**	**20**	**209**

Plecoptera	C	Number	MFBI Value	Calc MFBI
Capniidae	1	1	1	1
Chloroperlidae			1	0
Nemouridae			2	0
Perlidae			1	0
Perlodidae	1	3	2	6
Taeniopterygidae			2	0
Totals	**2**	**4**	**9**	**7**

Trichoptera	C	Number	MFBI Value	Calc MFBI
Brachycentridae			1	0
Glossosomatidae	1	35	0	0
Helicopyschidae			3	0
Hydropsychidae			4	0
Hydroptilidae	1	31	4	124
Lepidostomatidae			1	0
Leptoceridae			1	0
Limnephilidae			4	0
Philopotamidae	1	7	3	21
Polycentropodidae			6	0
Pyschomyiidae			2	0
Rhyacophilidae	1	9	0	0
Sericostomatidae			3	0
Totals	**4**	**82**	**32**	**145**

Odonata	C	Number	MFBI Value	Calc MFBI
Aeshnidae			3	0
Calopterygidae			5	0
Coenagrionidae			9	0
Cordulegastridae			3	0
Gomphidae			1	0
Libellulidae			9	0
Totals	**0**	**0**	**30**	**0**

Diptera	C	Number	MFBI Value	Calc MFBI
Athericidae			2	0
Blephariceridae			0	0
Ceratopogonidae			6	0
Chironomidae R	1	1	8	8
Chironomidae O	1	12	6	72
Dolichopodidae			4	0

Report

Total Specimens	134
MFBI	3.29
TR	10
EPT Index	8
EPT/CHIR	9.31

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Empididae			6	0
Eyphydridae			6	0
Pyschodidae			10	0
Simuliidae			6	0
Muscidae			6	0
Syrphidae			10	0
Tabanidae			6	0
Tipulidae			3	0
Totals	2	13	79	80

Coleoptera	C	Number	MFBI Value	Calc MFBI
Dryopidae			5	0
Elmidae			4	0
Psephenidae			4	0
Totals	0	0	13	0

Megaloptera	C	Number	MFBI Value	Calc MFBI
Corydalidae			0	0
Sialidae			4	0
Totals	0	0	4	0

Lepidoptera	C	Number	MFBI Value	Calc MFBI
Pyralidae			5	0
Totals	0	0	5	0

Amphipoda	C	Number	MFBI Value	Calc MFBI
Gammaridae			4	0
Talitridae			8	0
Totals	0	0	12	0

Isopoda	C	Number	MFBI Value	Calc MFBI
Asellidae			8	0
Totals	0	0	8	0

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	Kitchen Creek
Station	KTC2

Sampling Date:	18-Jun-97

SAMPLER:	DWG
UNIT:	YSI #1

YSI Datasonde Physicochemical Data

DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
06/18/97 11:15	61897	120008	18.9	0.484	80.1	7.43	0	7.8	51	0.278
06/18/97 11:15	61897	120029	18.92	0.484	80.1	7.43	0	7.8	51	0.278
06/18/97 11:16	61897	120200	18.97	0.485	80	7.41	0	7.8	50	0.279
06/18/97 11:17	61897	120253	19.03	0.484	80	7.4	0	7.8	51	0.279
06/18/97 11:18	61897	120325	19.02	0.484	80	7.4	0	7.8	51	0.279
AVERAGE			18.97	0.484	80.04	7.41	0.00	7.80	50.80	0.28

Observations:		
Flow		cfs
Habitat Score		
Sky		
Wind		
Direction		
Air Temp		F

Samples Taken	Number
Nutrients	
TON/Turbidity	
Metals	
Bacti	
Solids	
Plankton	
TOC	
BMI	
CPOM	
Organics	
Crypto-Giardia	

Comments:
Watershed sampling and surveillance.

Water Chemistry Profile

Constituents	HACH Method	Results
NH4-N (mg/l)	380	
NO2-N (mg/l)	371	
NO3-N (mg/l)	351	
PO4 P (mg/l)	490	
Turbidity (NTU)	2100P	
Mn (mg/l)	290	
Fe (Ferrous, mg/l)	255	
Cu (mg/l)	135	
Al (mg/l)	10	
Analysis Date:	01-Jan-97	
Analyst:		

Rapid Bioassessment Protocol

Habitat Assessment

Ref. Sta.	Score	% Comp.	Rating
CWD3a	143	0.00%	
LCC2	113	0.00%	
		#DIV/0!	
		#DIV/0!	
Ideal	155	0.00%	
Analysis Date:		01-Jan-97	
Analyst:			

Benthic Macroinvertebrates

Metric	Ref. Sta.	Study Site	% Comp.	Rating
MFBI				
TR				
PER CONT				
EPT				
% EPT				
EPT/CHIR				
SCFL				
HBI				
CLI				
Analysis Date:		01-Jan-97		
Analyst:				

Habitat Assessment Scale

> 90%	Comparable to reference	Excellent
75-88%	Supporting	Good
60-73%	Partially supporting	Fair
<58%	Not supporting	Poor

Metric Assessment Scale

Metric	Excellent	Very Good	Good	Fair	Poor
MFBI					
TR					
PER CONT					
EPT					
% EPT					
EPT/CHIR					
SCFL					
HBI					
CLI					

file name KTC5-169

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	Kitchen Creek
Station	KTC5a

Sampling Date:	19-May-97

SAMPLER	DWG
UNIT	YSI #1

YSI Datasonde Physicochemical Data

DATE MM/DD/YY	TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
05/19/97	13:09	51997	135705	22.09	0.424	109.1	9.51	0	8.51	56	0.26
05/19/97	13:15	51997	140312	22.29	0.423	110.6	9.6	0	8.54	57	0.261
05/19/97	13:17	51997	140539	22.34	0.422	110.5	9.58	0	8.55	58	0.261
05/19/97	13:27	51997	141534	22.42	0.422	109.5	9.48	0	8.56	62	0.261
05/19/97	13:37	51997	142510	22.5	0.422	108.8	9.41	0	8.57	68	0.261
AVERAGE				22.33	0.423	109.70	9.52	0.00	8.55	60.20	0.26

Observations:	
Flow	4.56 cfs
Habitat Score	97
Sky	Clear
Wind	Calm
Direction	na
Air Temp	80.1 F

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	1
Organics	0
Crypto-Giardia	0

Comments:

Watershed sampling and survey with Roy Tamanaha.
Flow greatly diminished in last two weeks; down 30%.
Hester Dendy samplers in place and undisturbed. Will be retrieved next week.
Nostoc algae dominating substrata. Fresh tule regrowth fill both ponds above and below sampled reach (a).

Hydropsyche and Baetis comprised most of the benthic macroinvertebrates observed during sampling.

Water Chemistry Profile

Constituents	HACH Method	Results
NH4-N (mg/l)	380	0.07
NO2-N (mg/l)	371	0.002
NO3-N (mg/l)	351	0.06
PO4 P (mg/l)	490	0.2
Turbidity (NTU)	2100P	0.57
Mn (mg/l)	290	
Fe (Ferrous, mg/l)	255	
Cu (mg/l)	135	
Al (mg/l)	10	
Analysis Date:		21-Jan-97
Analyst:		

Rapid Bioassessment Protocol

Habitat Assessment Ref. Sta.	Score	% Comp.	Rating
CWD3a	143	67.83%	Partially
LCC2	113	85.84%	Supporting
		#DIV/0!	
		#DIV/0!	
Ideal	155	62.58%	Fair
Analysis Date:		19-May-97	
Analyst:			

Benthic Macroinvertebrates Metric	Ref. Sta.	Study Site	% Comp.	Rating
MFBI				
TR				
PER CONT				
EPT				
% EPT				
EPT/CHIR				
SCFL				
HBI				
CLI				
Analysis Date:		01-Jan-97		
Analyst:				

Habitat Assessment Scale

> 90%	Comparable to reference	Excellent
75-88%	Supporting	Good
60-73%	Partially supporting	Fair
<58%	Not supporting	Poor

Metric Assessment Scale

Metric	Excellent	Very Good	Good	Fair	Poor
MFBI					
TR					
PER CONT					
EPT					
% EPT					
EPT/CHIR					
SCFL					
HBI					
CLI					

KTC5-139

exceedances

Kitchen Creek

Date	Parameter	Avg Value	WQO
29-Jan-98	TDS	167 g/L	0.5 g/L
10-Oct-97	TDS	160 g/L	0.5 g/L

La Posta Creek

Date	Parameter	Avg Value	WQO
28-Jan-98	TDS	320 g/L	0.5 g/L
10-Oct-97	TDS	140 g/L	0.5 g/L

YSI WATER QUALITY PROFILE REPORT SHEET

Watershed	Cottonwood	DATE	01-Jan-97	SAMPLER	DWG
Drainage	Kitchen Creek			UNIT	YSI #1
Station	KTC5				

DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
03/12/97 08:50	31297	94512	8.07	0.427	84.2	9.94	-0.9	8.38	196	0.188
03/12/97 08:51	31297	94648	8.08	0.428	83.8	9.89	0	8.38	196	0.189
03/12/97 08:52	31297	94721	8.09	0.428	83.7	9.87	0	8.39	195	0.189

Observations:

Flow	15.12	cfs
Sky	clear	
Wind	5	
Direction	w	
Air Temp		C

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	0
CPOM	0
Organics	0
Crypto-Giardia	0

Comments:

Site inspection and watershed monitoring sampling. Illegal Immigrant Impact sampling conducted today at Troy Creek (TCC1) and Long Canyon Creeks (LCC2). Campers onsite in RV and tents. Little to moderate site disturbance. Most disturbance concentrted in pools near the road.

file name ktc5_071

YSI WATER QUALITY PROFILE REPORT SHEET

Watershed	Cottonwood	DATE	01-Apr-97	SAMPLER	DWG
Drainage	Kitchen Creek			UNIT	YSI #1
Station	KTC5				

DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
04/01/97 11:06	40197	115749	12.6	0.411	100.1	10.62	0	8.47	216	0.204
04/01/97 11:06	40197	115916	12.65	0.412	107.1	11.36	0	8.47	215	0.205
04/01/97 11:07	40197	120013	12.7	0.412	99.7	10.56	0	8.47	215	0.205
04/01/97 11:27	40197	122031	13.03	0.411	97.6	10.26	0	8.5	220	0.206

AVERAGE	12.745	0.4115	101.125	10.7	0	8.4775	216.5	0.205

Observations:

Flow		cfs
Sky	PC50%	
Wind	10-15	
Direction	NNE	
Air Temp	20.6	C

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	1
Organics	0
Crypto-Giardia	0

Comments:

Site inspection and sampling.
Set two pairs of Hester Dendy samplers at KTC5 reach 1.
Fair to heavy day use in area evidenced by trash, traffic and vehicle tracks. Streambed substantially modified downstream of reach 1 and reach 2.

fork near KTC5_091