IDENTIFYING LAND USE CHANGES AND COAL MINING IMPACTS ON WATER QUALITY: A CASE STUDY ACROSS TIME AND SPACE

By

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INTRODUCTION

Catchments are complex, dynamic systems involving numerous interactions among water, rock and biota. These interactions and resulting responses are amalgamated through the hill slope and stream reach to produce an integrated chemical response. When perturbations to the catchment occur they are ultimately observed in the stream water chemistry. Several decades of research focused on the degrading environmental effects of land use changes on the atmosphere and large-scale ecosystems have demonstrated the global consequences of converting natural landscapes to industrial, residential and agricultural land (Foley et al 2005). Studies have found stream water chemistry to be related to land-use, geomorphology and geology of a catchment area (Johnson et al 1997). Land use changes may be reflected in stream water chemistry as elevated heavy metals, nutrient loading and increased sediment input, and generally equate to degraded water quality (Foley et al 2005). With human activities appropriating approximately half of available renewable freshwater resources (Postel et al 1996) and world population anticipated to increase through 2075 (UN World Population to 2300, 2004) the impact of continued land use changes on water quality may be unprecedented. Future degradation to river systems could be rapid and severe, and is predicated to occur in low-lying and poorly studied rivers, primarily those with continued land-use conversion and inadequate resource management (Malmqvist and Rundle 2002).

Observing and interpreting changes to water quality is difficult due to the spatial and temporal variability of water chemistry. Water quality is often benchmarked according to discrete concentration measurements of contaminants, but fundamentally these results are influenced by the natural variation of stream flow. Evaluating the impact of pollutants on water quality is further complicated because pollutants often occur in combination – a variety of chemical, physical and organic contaminants interact with each other and the natural stream environment to produce, typically, negative effects on water quality (Malmqvist and Rundle 2002). Long, decadal records of stream water chemistry are an

invaluable tool for assessing changes to water quality yet such data sets are available for only a limited number of catchments. While empirical and complicated models exist for interpreting the impacts of land use changes and resource extraction on water quality, these methods require substantial amounts of data and thus limit use to well-studied catchments.

More often than not, temporally short and fragmented records of water quality are available, although water discharge records may exist for extended periods. Partial water chemistry data sets give a static perception of water quality, but by coupling water chemistry and discharge data, long-term discharge measurements can be used to indentify long and short term hydrochemical trends which can then be compared between time and space, as the available data allow. This study uses limited water chemistry and discharge data to assess changes to water quality in a catchment that has experienced periods of coal mining activity.

The New River and its nested, upland catchment, Indian Fork, are located in north-central Tennessee (Figure 1) and present an interesting case study for evaluating the impact of coal mining and land-use changes on hydrochemical processes across spatial and temporal scales. Over the past seven decades or so, the intensity of coal mining (contour and underground), logging, and oil and gas drilling have varied throughout the 1,025 km^2 New River watershed and 13 km^2 Indian Fork headwater catchment. Historically, a significant quantity of coal was mined in the New River watershed; in 1974 approximately 56% of all coal produced in Tennessee was from the New River watershed (Hollyday and Sauer 1976). Mining peaked in the state of Tennessee in the 1970s and declined until 2003. During the 1970s, approximately 5% of the New River watershed was disturbed due to mining activities, logging accounts for an additional yet not quantified area (Minear and Tschantz 1976). Presently, acid mine drainage occurs in a few isolated tributaries but historically was more severe, with pulses of acid mine drainage possibly sweeping the length of the New River. This was particularly likely during low flow periods when acid and metal-laden waters were insufficiently diluted (Ahlstedt et al 2008 and

references therein). Due to isolated interbedded carbonate deposits in the otherwise siliciclastic bedrock, and a shift to mining lower sulfur coal seams in the late 1970s, the pH of New River and many of its tributaries remains relatively constant in the pH 7.5 to 8.5 range. Throughout the 1970s, extensive water quality research was conducted in the New River watershed and several small catchments by the University of Tennessee in conjunction with the Tennessee Valley Authority (TVA), USGS and Army Corps of Engineers (Minear et al 1977). This historic data coupled with recent water chemistry information provides a useful comparison to quantify changes in water quality spatially and temporally in the basin.

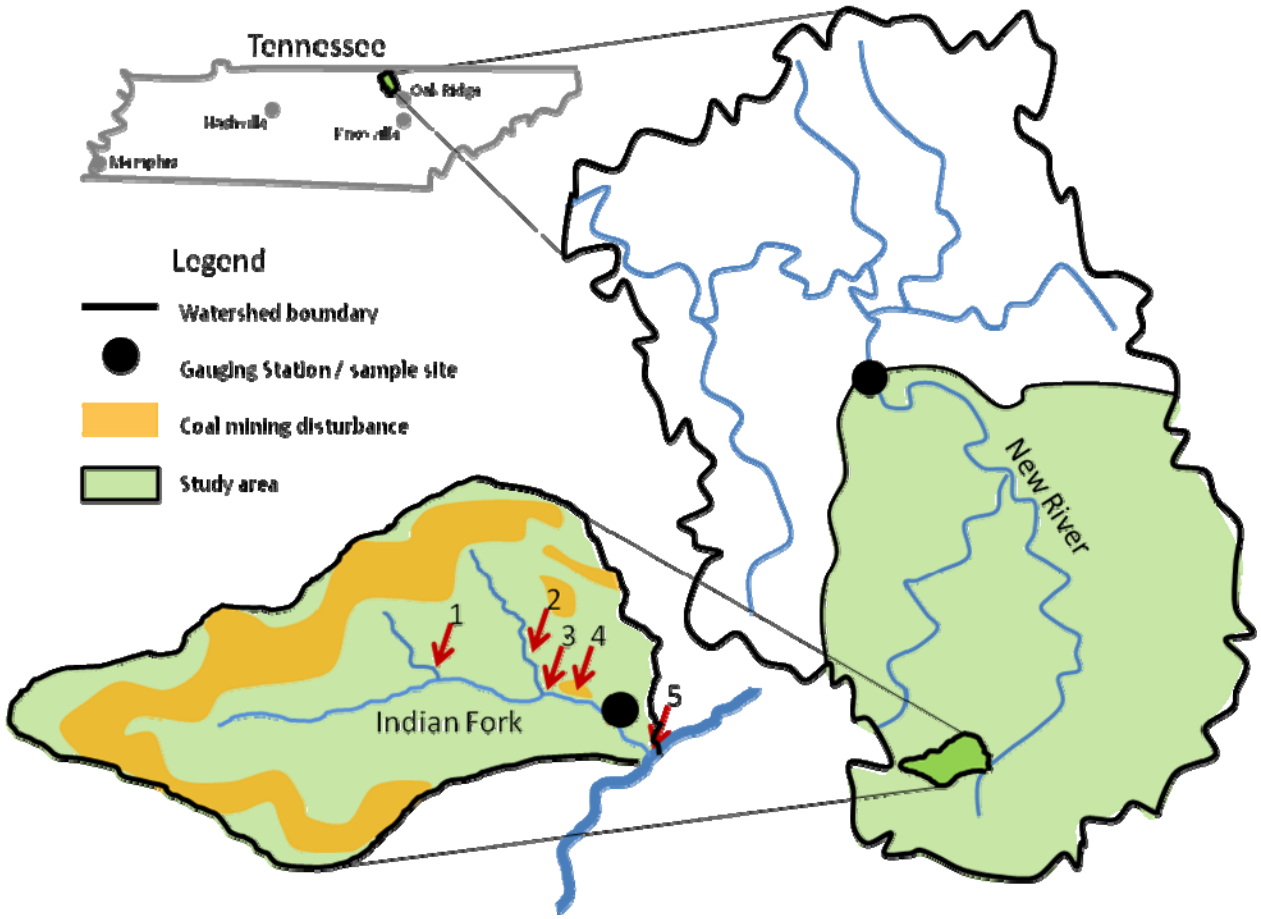

Figure 1. Site location map for the New River and Indian Fork. Coal mining disturbance indicates approximate area. Coal mining disturbance not depicted on the New River watershed map. The large filled circle on the New River watershed map is the USGS Cordell gauging station. Locations: (1) Lil'n Trib, (2) Joe Branch, (3) location of historic USGS gaging station, (4) Fe-oxide seeps, (5) outlet to New River.

My objective is to use fragmented water chemistry and discharge records to identify changes in water quality in the New River and Indian Fork watersheds, and subsequently interpret such changes, if they exist, in light of coal mining activity and land use disturbances. Qualitative assessments of written history, legislation, and Master and PhD theses are used to interpret land-use changes, i.e., no formal land-use survey was completed during this study. The null hypothesis of my work is that there have been no observable changes to water quality in the Indian Fork or New River in three to four decades and chemical responses are expressed similarly between catchments. I address my objective by (1) characterizing long and short term c-Q (concentration-discharge) relationships using best fit slopes on log(c)-log(Q) plots and episodic hysteresis c-Q plots, (2) modeling water chemistry of the catchments using recursive time-series analysis and, (3) comparing results between catchments and across time. This study is confounded by the lack of available water data yet the use of the above methods to assess changes to water quality may provide a useful tool for working in catchments where data are sparse.

THE CASE STUDY

New River

The New River and Indian Fork are located in the Cumberland Mountains on the northern portion of the Cumberland Plateau in east Tennessee (Figure 1). The New River flows north for 55 miles to join with the Clear Fork at the confluence of the Big South Fork of the Cumberland River. The entire New River watershed encompasses approximately 1,025 km^2 of mountainous terrain with elevations ranging from 306 m to over 1,077 m (Hollyday and Sauer 1976). This study considers the 513 km^2 headland area upstream of the USGS Cordell (3407908) gage (36°20'09.84", 84°27'05.01"). Slopes within the watershed are relatively steep, averaging about 14° (Tung 1975) with steeper slopes toward the

southern portion of the basin. In Oneida, TN, located approximately 27 km north, average monthly temperature varies between 33°F in January to 73°F in July. Annual precipitation is approximately 140 cm per year, approximately 11 to 12.5 cm per month throughout the year. A few centimeters of snow may accumulate in January and February (NOAA). Storms are more frequent during winter months, and late summer and fall are typically the driest.

Geology – The Cumberland Plateau is the southern portion of the Appalachian Plateau and runs north-south through eastern Tennessee. The plateau is essentially flat with a 275 m escarpment on the eastern edge. The western edge of the plateau is irregular, grading into the hilly topography of middle Tennessee. Elevations on the plateau generally range between 520 to 580 m with elevations above 1,000 m in the Cumberland Mountains. The plateau is composed of Mississippian limestone that is capped by Pennsylvanian sandstone and shale. This weather-resistant surface does not allow for easy erosion of the underlying limestone. The silciclastic rocks are interpreted to be deposited by shoreline oscillations (Miller 1974). The New River watershed lies within the Wartburg Basin and common Pennsylvanian lithologies include conglomerate, sandstone, siltstone, shale and significant coal deposits. Local geology represents a transition from lower to upper deltaic deposits with frequently shifting distributary channels (Minear et al 1977).

Coal mining – Coal deposits in Tennessee are restricted to the upper Pennsylvanian strata on the Cumberland Plateau. Twenty-two counties have known resources (Miller 1974) though only 8 counties, mostly located on the northern portion of the Plateau, are considered major producers (Thompson et al 2001). Specifically in the New River watershed, the Big Mary, Walnut Mountain and Pewee are the principal coals with the later two typically mined together (Dickens 1982). The Big Mary coal represents a lower delta plain deposit whereas the Walnut Mountain and Pewee coals represent transitional, freshwater environments. Due to paleoenvironment, the Big Mary has a higher sulfur content and is

likely to produce acidic drainage when mined (Dickens 1982). Additional coal seams occur in the watershed but most are largely discontinuous.

Coal mining as an industry in Tennessee began after the end of the Civil War (mid 1880s) and steadily grew as railroads were built and coal surpassed wood as a primary fuel (Marina 2005). Early mining in Tennessee was predominately underground but as liquid fuels became more prevalent and inexpensive surface mining began to dominate. Rapid increases in production occurred from the 1900s to 1970s due to improved technology and continued demand for coal, particularly for power generation. For Tennessee, coal production peaked in 1971 at over 9.9 million metric tons (Marina 2005). Currently, Tennessee is the lowest coal producing state in the Appalachian coal mining region (Thompson et al 2001). From 1997 to 2007, total coal production for Tennessee totaled approximately 2.9 million metric tons/year. Coal production is forecast to remain steady though losses in earnings, employment and economic output are anticipated due to increased mechanical efficiency and pricing. This will have little effect on the overall economy of Tennessee as the coal industry employs approximately 1,700 people and accounts for only 1.9% of the state economy (Thompson et al 2001). Contrary to this prediction, other sources (Marina 2005) suggest that increased permitting of more and larger mines in Tennessee and rising coal prices nationwide indicate increased production is likely to occur in Tennessee.

Legislation, regulation, and production trends may have directly or indirectly impacted coal production in the New River watershed over the past 7 decades (Table 1). The environmental degradation caused by more than century of coal mining with poor regulation and reclamation practices was becoming evident nationwide in the 1970s. In response, the Surface Mine Control and Recovery Act (SMCRA) was enacted in 1977 and created the Office of Surface Mining (OSM) within the Department of the Interior to provide federal oversight of the coal mining industry. SMCRA mandated more stringent reclamation practices and permitting standards. With this legislation mining companies are required to post bond for their sites and must pay to restore the area when mining is complete. Additionally, the

enactment of the Clean Air Act in 1970 with further amendments in 1977 and 1990 mandated increasingly lower sulfur emissions from coal fired power plants encouraging use of low sulfur coal found primarily in the western US. This caused a transfer of production from eastern coal fields which typically have higher grade and higher sulfur coal to western coal fields which have lower grade and low sulfur coals (Marina 2005). Between 1973 and 1983 productivity from eastern coalfields waned and after 1983, surface and underground production began to rebound (EIA 2006).

Contour surface mining typically occurs in areas with steep slopes and horizontal bedding. By removing the overburden and placing it down-slope, the underlying coal is mined along the deposit's contour. Contour mining can create continuous benches that stretch for miles. In the 1940s contour surface mining became the primary method of coal extraction in the New River watershed (Tung 1975). In the steep terrain of the New River, where relief in a 13 km^2 area commonly exceeds 460 m, contour mining causes sediment to be transported rapidly down-slope into stream channels (Hollyday and Sauer 1976). Underground mining also occurs in the watershed. Coal production in the New River watershed peaked in the 1970s and subsequently decreased with the enactment of SMCRA and the Clean Air Act. Recently, new permit requests have centered in the northern portion of the Cumberland Plateau, i.e. the New River watershed (Marina 2005).

Due to decades of coal mining in the New River watershed and the creation of large volumes of spoil (i.e. economically un-valuable rock extracted during mining) various types of reclamation practices have been implemented. Unregulated practices prior to the enactment of the first Tennessee surface mining law in 1967 included cast overburden where the material overlying the coal seam is fractured, removed and literally tossed down slope. Swale backfill (Figure 2) was the common reclamation method in the New River watershed until the 1974 amendment of the 1972 Tennessee Surface Mining Law. Swale backfill is where some of the spoil is backfilled into the excavated area and a ditch is left between the remaining high-wall and haul road allowing water to accumulate. From 1974 to SMCRA in 1977,

Table 1. Outline of historic legislation, regulation, production trends directly or indirectly impacting Tennessee coal production and mining in the New River watershed. Table after Minear and Tschantz 1976, Dickens 1982, Marina 2005, American Coal Foundation 2005, McElfish and Ann E. Beier 1990.

Year	Legislation or production trend in coal mining	Notes
1940	Contour mining primary method of extraction in New River watershed	Underground mining also occurs in the New River watershed.
1961	Coal becomes major fuel for US electrical power generator facilities	TVA becomes an increasingly important and large consumer of TN coal.
1967	*Tennessee Strip Mine Law*	First strip mining law in Tennessee for control, permits, reclamation and enforcement. Required posting of bond and some reclamation measures.
1970	*Clean Air Act* (amendments in 1977 and 1990)	Increasingly more stringent on sulfur emissions, shifts coal production from eastern coalfields to the western US
1971	Peak in coal production in TN	Over 9.9 million metric tons of coal is produced in Tennessee
1972	*Federal Water Pollution Control Act*	Requires NPDES permit for pollution point-sources into navigable waters; funding for mine water pollution control
	Tennessee Surface Mining Law (amendments in 1974, 1975, 1976)	Amendments to 1967 Law, established the Division of Surface Mining within the TN Dept of Conservation; each amendment increased permitting, bond, and reclamation requirements
1973-74	Oil Embargo	Between 1973 and 1976 coal production increased by 14.4% nationwide (attempting to achieve energy independence), immediate and dramatic increases in coal prices
1974	56% of TN annual production derived from the New River watershed	3 counties that make up the New River watershed produced 4.4 million metric tons of coal
1976	EPA Coal Mining Effluing Guidelines and Standards	Set federal standard for handing of mine water discharge
1977	*Federal Surface Mining Control and Reclamation Act* (SMCRA)	Created a nationwide regulatory program, established the Office of Surface Mining in the Department of Interior to oversee surface and deep mining; reclamation of backfill-to-approximate-original-contour begins, details post mining land use; went into effect in 1978 but TN continues to operate under its 1974 law
1977	*Tennessee Water Quality Act*	TDEC division begins to monitor water and enforce water quality regulations
1978	*Power Plant and Industrial Fuel Use Act*	Mandated conversion of oil-burning power plants to coal or natural gas
1980	Conditional approval of TN state surface mining program	Approval by the Secretary of the Interior in accordance with SMCRA
1983	TN surface mining program fails	OSM Annual report indicates “massive breakdowns in state implementations” in Tennessee
1984	TN federal program instituted	OSM is established as the regulating body for surface coal mining in TN
Early 1990s	Number of coal mining establishments and workers fell by approximately 2/3	May have more to do with efficiency, technology development and company consolidation than decrease in production
2000s	Production relatively steady in TN throughout 2000s	Approximately 2.9 million metric tons / year produced, making TN the lowest coal producing state in the Appalachian coal mining region

pasture backfill was common. This reclamation method was similar to swale backfill but instead of a pond, the backfilled spoil is gently sloped from the high-wall to the haul road. With the passing of the 1977 SMCRA, mine reclamation was required to return the slope to its original contour and backfill-to-approximate-original-contour became the main method of reclamation (Figure 2).

Land use – The New River watershed lies in Anderson, Campbell, Morgan and Scott Counties. Population densities within these counties range from 4 to 115 people per sq km and density generally increases with increasing proximity to Oak Ridge National Laboratory and Knoxville, TN located southeast of the study area (US Census Bureau 2009). Generally, the New River watershed is thinly populated and lies in a rural environment where people depend on goods and services outside of the watershed. Currently, the watershed is largely covered with forests though large areas have been disturbed due to coal mining activities, natural gas extraction, timber harvest and road building. In 1974 approximately 5% of the watershed was disturbed by coal mining activities (Tung 1975) and by 1979 that portion had risen to 7% (New River Comprehensive Study 1979 in Dickens 1982). An aerial land use survey completed in 1976, indicated land use as follows: 81% hardwoods, 7% evergreens, 5% agriculture, 6% bare earth, interpreted as high-walls and other areas disturbed by surface mining (Hollyday and Sauer 1979). By 1979, land use in the New River watershed included: 88% forest, 7% land disturbed by coal mining activities and 5.9% agricultural land which was mostly restricted to the broader floodplain near the mouth of the river (New River Comprehensive Study 1979 in Dickens 1982). Land disturbed by logging was not accounted for in either study but likely includes a significant portion of the watershed.

Water quality – Surface mining, de-watering of deep mines, oil and gas exploration and extraction, and timber harvesting have collectively degraded the water quality of the New River (New River Science Plan 2007). A common water quality concern of coal mines is acid mine drainage which is fundamentally the acidification of stream waters by oxidative weathering of metal sulfide minerals—

primarily, though not exclusively—pyrite. Acid mine drainage is typically characterized by low pH, elevated metal and sulfate concentrations, and high specific conductivity. Coals and roof shales are the primary acid producers in the New River watershed and release a greater percentage of metals into the environment than do other rocks; this is primarily of concern for underground mining (Minear et al 1977). Early in the history of mining the New River watershed (i.e. circa 1940) it is likely that severe acid mine drainage periodically flushed the length of the river (Shoup 1940 in Ahlstedt et al 2008). This severity is now a thing of the past as water quality has improved some since 1940. Siliciclastic sediments that underlie the New River watershed provide little buffering capacity and acid mine drainage continues to occur in isolated tributaries. Elevated levels of sulfate and specific conductivity in the New River indicated substantial amounts of neutralization acid mine drainage. It is suspected acidity is neutralized by small limestone deposits and discontinuous siderite ($FeCO_3$) layers and nodules located throughout the watershed (Minear et al 1977). Furthermore, from 1940 to the 1980s poor reclamation practices led to increased sediment load, low pH, and elevated concentrations of dissolved metals (Ahlstedt et al 2008 and references therein). Decreases to biological populations and diversity were also documented during this time in tributaries disturbed by mining activities. Impaired biology was related to water quality and largely siltation (Vaughan 1979, Minear and Tschantz 1976, Minear et al 1977).

Water quality within the watershed has largely rebounded from historic degradation due to better reclamation efforts required by the SMCRA legislation (circa 1980 in Tennessee) and a general decrease of mining in the watershed. Presently, pH is circum-neutral in the New River watershed and coal-mining pollution is best identified by elevated specific conductance and sulfate concentration (Rikard and Kunkle 1990). Sediment, in terms of quantity and sorption of metals, is currently considered the largest pollutant by many. While most of the New River system has rebounded, some small tributaries still experience acid mine drainage and elevated metal loads. The recent upturn of mining in

the watershed has primarily occurred in lower sulfur coal deposits (i.e. Pewee and Walnut Mountain seams) which produce little to no acid mine drainage.

Indian Fork

The Indian Fork provides a smaller perspective at which to address changes in water quality and allows the comparison of hydrochemical trends at different spatial scales (Figure 1). The Indian Fork catchment is approximately 13 km^2 with elevations ranging from approximately 425 m at the bottom of the catchment to over 1,000 m at the drainage divide. Average slope within the catchment is 22° and the streambed slopes at 5° (Minear and Tschantz 1976).

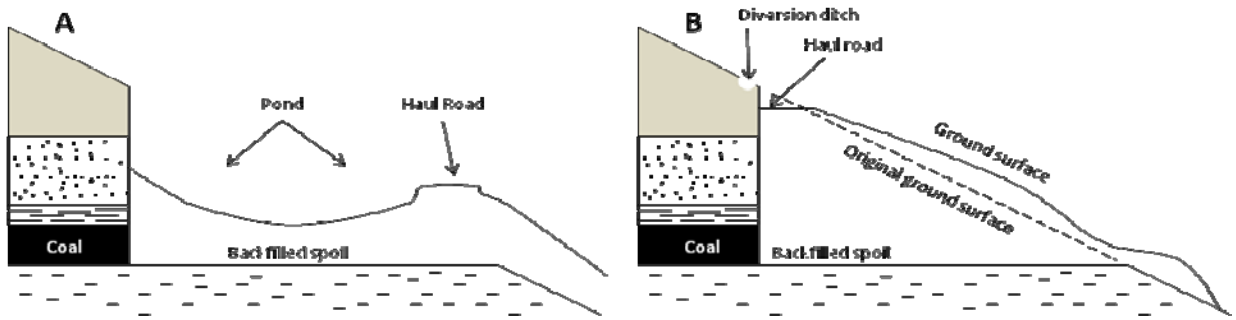

Figure 2. Common reclamation methods for contour mines in the New River watershed. (A) swale backfill reclamation, common prior to the 1974 Tennessee Surface Mining Law. (B) Backfill-to-approximate-original-contour reclamation required 1977 SMCRA regulations. Figure after Dickens 1982.

Coal mining – The geology of the Indian Fork is a series of horizontal sedimentary beds consisting predominately of clayey to sandy shale with additional siltstone, sandstone and coal. Seven major episodes of delta growth and destruction are evident in the Indian Fork catchment, each succession is capped by an economically valuable coal deposit (Minear et al 1977). These seven coals were mined in the catchment between 1950 and 1972 (Dickens et al 1985). Contour surface mining was the predominate method of mining though some augering and underground mining were completed as

well. Reclamation style within the catchment was predominately cast overburden and swale backfill (Figure 2).

Land use – Mining in the catchment ceased in 1972 with the completion of Pewee coal extraction. In 1974, barren soil and backfill was hydro-seeded and vegetation became fairly established in a year (Dickens 1982). Two surface-mined benches occur at 670 m and 780 m and at least three portals are present in the watershed, two located at the head of the catchment and the third drained by Joe Branch (Figure 1, location 2). Auger holes occur throughout both of the contour cuts (Rose 1975). Percentage estimates for the coal mined disturbed catchment area include 17% (Rose 1975) and 19% (Minear and Tschantz 1976). A reevaluation of area disturbance by Dickens et al (1985) indicates 2.6 sq km, or 23.2% of the catchment surface has been disturbed due to mining activities. This includes surface mines, benches, high-walls, spoil piles and related logging and road building. Since no mining has occurred in the catchment since 1972, it is assumed the disturbed area has remained unchanged. Currently, several homes are located along the lower portion of the Indian Fork.

Water quality – The Indian Fork is one of six tributaries to the New River that was studied between 1972 and 1985 (Dickens et al 1989, Minear and Tschantz 1976). Of the six tributaries the Indian Fork represented the most land area disturbed by mining, the oldest mining and most outdated reclamation practices (Dickens et al 1989). Various studies from the 1970s and 1980s in the Indian Fork (e.g. Minear and Tschantz 1976, Tung 1975, Ketellee 1977, Dickens et al 1985, Dickens et al 1989) found that due to mining-related disturbance, the stream exhibited the following changes: (1) increased stream flow volume, (2) heavier sediment loads, (3) more hydrous Fe-Mn oxide in suspension, (4) average pH 6.84 and (5) accelerated physical weathering of rock material.

The water quality of the Indian Fork has been related to swale backfill reclamation within the catchment. This spoil material is generally porous and allows a considerable volume of rainwater, estimated at 5.94×10^6 m^3, to be intercepted and stored. The ponds and spoil provide a major source of

recharge (Dickens 1982), possibly accounting for 44% of the annual stream discharge and 90% of the low flow volume (Dickens et al 1989). This provides baseflow to the Indian Fork during the summer and fall when other un-mined tributaries in the New River are dry (Dickens et al 1989). While the spoil which comprises the swale backfill is a major source of elevated solute concentrations, Dickens (1982) suggests the swale ponds do not completely explain the elevated sulfate levels discharging from the Indian Fork and point-sources must also be present in the catchment. Point-sources are likely discharges from underground workings and auger borings.

Historically, water quality has been worse in the Indian Fork compared to other catchments that have been exclusively contour mined (Indian Fork has also been undergrounded mined) (Rose 1975). Water quality and more dominantly, sediment load are the major factors affecting biology in the Indian Fork (Vaughan 1979). Today pH is slightly basic around 8.3 and water typically runs clear except during storm events. The substrate is often highly silted and bright red-orange Fe-oxide seeps are common along the north bank near where mine tailings were once located (Figure 1, location 4).

METHODS

Data Collection and Chemical Analysis

Historic and recent New River data and historic Indian Fork data were compiled from the United States Geological Survey (USGS) water quality database (Table 2). To acquire current data for the Indian Fork, stream water samples and field parameter measurements including, specific conductivity, pH, dissolved oxygen, temperature and stream stage (i.e. water height), were collected throughout the fall of 2009. Stream stage was determined using a bubbler which measures the pressure required to force an air bubble out of a small tube and this pressure is then related to water depth. Periodic dilution gauging with approximately 17% salt (NaCl) solution was accomplished to determine stream discharge. Stream

stage and discharge where then plotted to develop a rating curve for the Indian Fork which was then applied to the 15-minute stage measurements to achieve a 15-minute discharge record. Daily and storm water samples were collected with an ISCO, Inc., stage-activated, automated water sampler. Storm water samples were collected in 15- to 30- minute intervals, initiated by a several centimeter rise in water level over a particular period of time. Field parameters were measured and recorded in continuous 15-minute intervals using a four probe YSI sonde connected to the Isco water sampler. Precipitation was collected on-site, under the canopy and in the open, using four fence-post rain gauges.

Table 2. Data sets (recent and historic) used in this report. SpC = Specific conductivity. United States Geological Survey National Water Information System (USGS NWIS) online database.

	Location	Parameters	Frequency	Data range	Source
Stream Data	New River @ Cordell (recent)	• Discharge • SpC	15-minute	1-2007 to 9-2008	USGS NWIS Retrieved 2-18-2010
			daily	8-2006 to 9-2008	
	New River @ Cordell (historic)	• Discharge	daily	1980	USGS NWIS Retrieved 9-5-2009
		• Discharge • SpC • SO4, Ca, Mg	~ monthly	1975 to 1982	
	Indian Fork (recent)	• Stage • SpC	15-minute	8-12-2009 to 12-10-2009	This study
		• Major ions (SO4, Ca, Mg)	daily & storms (15- or 30- minutes)	8-12-2009 to 12-10-2009	This study
	Indian Fork (historic)	• Discharge	daily	1-1975 to 7-1978	USGS NWIS retrieved 5-22-2009
		• Discharge • SO4, Ca, Mg	~ semi-monthly / monthly	1-1975 to 9-1981	USGS NWIS retrieved 5-20-2009

Synoptic sampling of the Indian Fork was completed on August 25, 30, and November 1, 2009 to characterize the longitudinal variability of the stream reach. Stream water samples were collected as grab samples and filtered through 0.45 μm syringe filters in the field. Additional field parameters were measured (specific conductivity, pH, dissolved oxygen and temperature) using a HydroLab field meter.

Water samples were transported to the laboratory upon completion of sampling. In the laboratory, 30 mL and 10 mL aliquots were filtered through a 0.45 µm syringe into triple-rinsed sample bottles. Filtered solutions were functionally considered to contain only solutes. The 10 mL aliquot was acidified with 1% nitric acid and analyzed for major elements using inductively-coupled plasma-optical emission spectroscopy. The 30 mL aliquot was analyzed for major anions using ion chromatography. All chemical analyses were performed by the Vanderbilt University Civil and Environmental Engineering Laboratory. ISCO sampler bottles were washed with laboratory detergent and acid-rinsed with 10% nitric acid solution after completion of each sampling program. Sample blanks and chemical standards were run with each sample batch during chemical analysis.

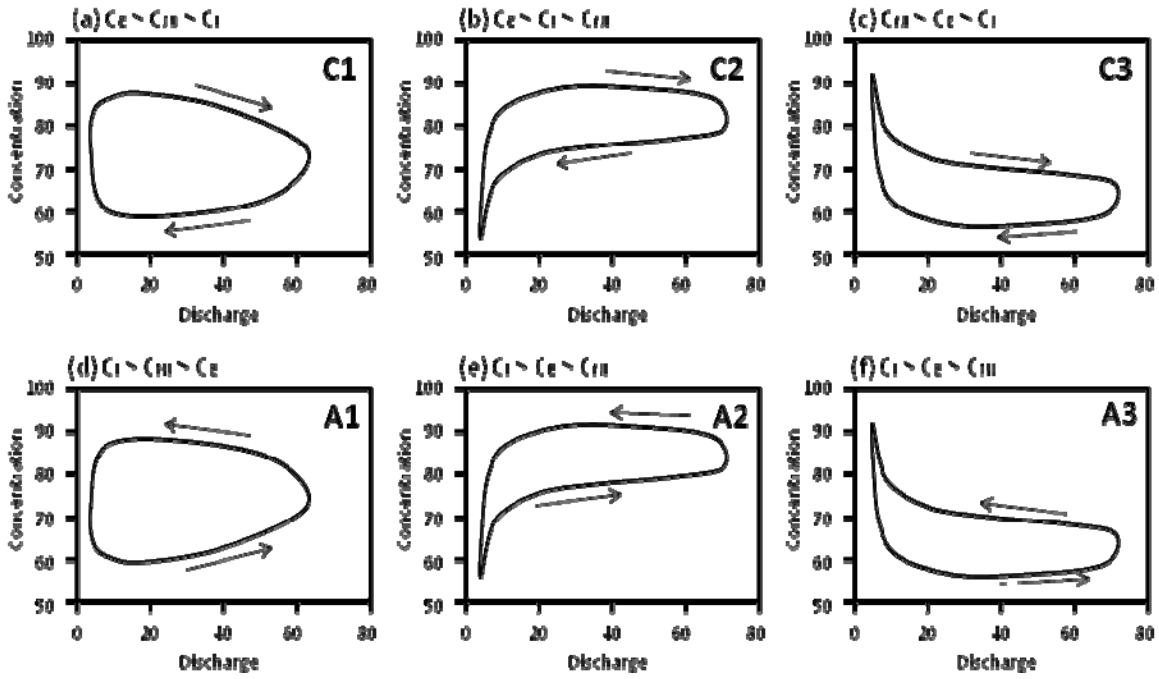

Figure 3. Characteristic c-Q plots (Evans and Davies 1998). Concentration and discharge are of arbitrary units. Component rankings are expressed according the New River, C_I = Impacted water, C_{NI} = Non-impacted water, and C_E = Event water.

Data Analysis

To assess observable changes in water quality several chemical and field parameters were used. Calcium and magnesium, derived primarily from the weathering of natural materials, were interpreted to indicate land disturbance. Rikard and Kunkle (1990) identify specific conductivity and sulfate to the be the best indicators of coal mining pollution in stream water due to the general alkalinity of the New River watershed.

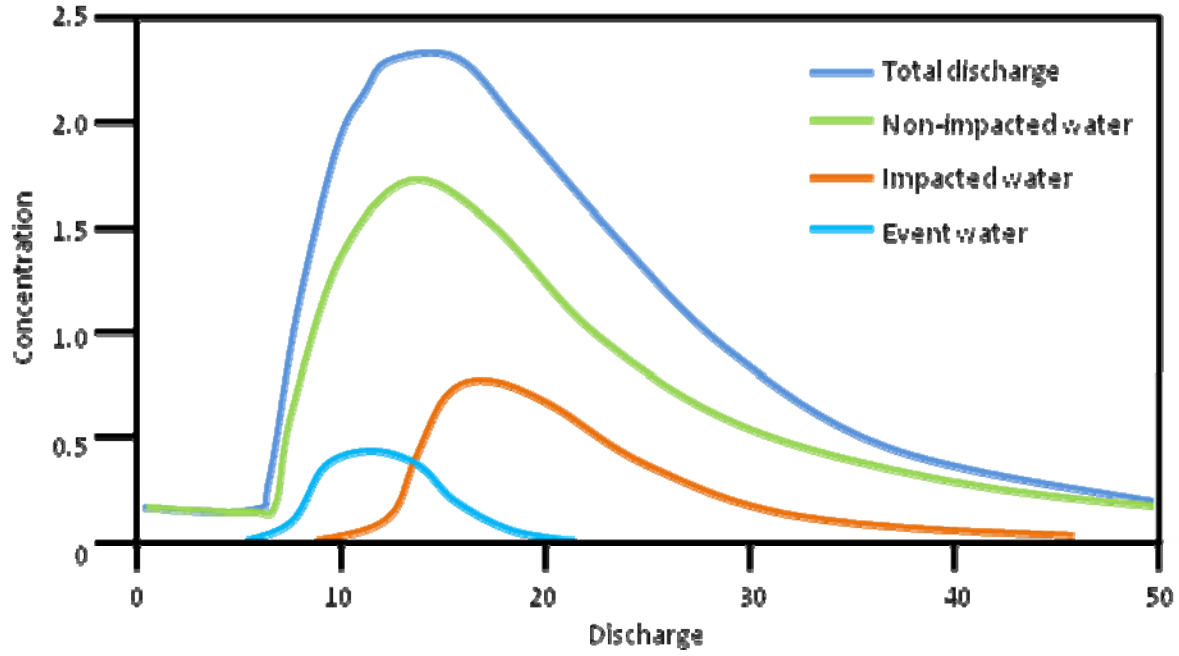

Figure 4. Example component hydrograph, representing a three component system for the New River.

Concentration-discharge Relationships – Concentration-discharge (c-Q) relationships were evaluated using two methods, (1) best fit slopes on log(c)-log(Q) plots for determining long term (inter- and intra- annual) trends and, (2) hysteresis c-Q plots for characterizing short term, episodic events (i.e. storms). Discrete concentration and instantaneous discharge samples were plotted on logarithmic axes and a power-law (i.e. $c = aQ^b$) was used to determine the best-fit line for the typically linear relationship. The slopes (i.e. the exponent 'b') and R^2 values were compared between plots of different years, solutes

and catchments. Log(c)-log(Q) slopes have physical interpretations, a slope of -1 or 0 suggests dilution or chemostatic behavior, respectively (Godsey et al 2009).

Recent episodic events for the New River (2007) and Indian Fork (2009) were characterized using 15-minute interval time-series data. Hydrograph peaks, indicating a storm event, were isolated and corresponding concentration and discharge values were plotted chronologically. Hysteresis occurs when the concentration at a particular discharge is different on the rising and falling limbs of a hydrograph and this effect is evident in the looping patterns on c-Q plots (Figure 3). The rotation and shape of these patterns are related to the component hydrograph (Figure 4) which is based on the assumption that water from chemically distinct sources comprise the overall chemical composition of the stream. The six c-Q patterns identified by Evans and Davies (1998) are theoretically related to the arrival of these components to the stream, i.e. their component ranking (Figure 3). Rotation of c-Q plots for the New River and Indian Fork were classified as clockwise (CW), counterclockwise (CCW) and indeterminate (I) when no trend was evident. c-Q patterns were visually classified according to Evans and Davies (1998) c-Q loop taxonomy (Figure 3). Additionally, the maximum (i.e. peak) discharge on the hydrograph for each storm was also recorded and overall concentration or dilution trends throughout the hydrograph peak were noted. Sufficient data was unavailable to characterize historic storm events in the New River and Indian Fork.

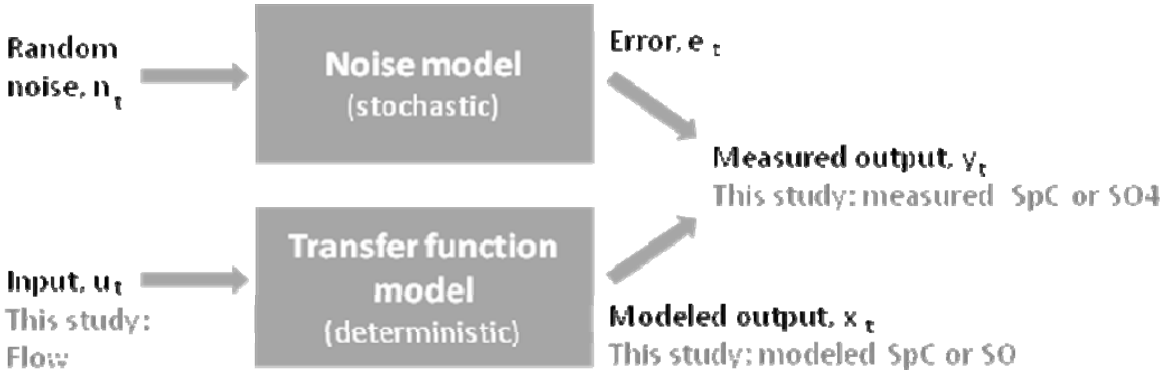

Figure 5. Time series diagram.

Time-series Modeling – In addition to evaluating c-Q plots, stream water chemistry was modeled using time-series analysis. Time-series analysis provides a simple mathematical model to illustrate a dynamic, complex system. The measured output of a system theoretically consists of two parts, a deterministic and a stochastic component (Figure 5). The majority of an output signal is related to the input through a transfer function model while additional noise corrupts the signal, resulting in the measured output, as represented by Equation 1.

$$Ay_t = Bu_t + e_t \qquad \text{Equation 1}$$

where u_t is the input, e_t is the stochastic noise component, and y_t is the measured output, all at time t. The input and output are related through parameters A and B. Equation 1 indicates the output does not depend on previous conditions, which for most hydrologic systems is an unjustifiable assumption. To incorporate antecedent output a backward shift operator (z^{-1}) is applied, as in Equation 2.

$$(1 + a_1 z^{-1})\, y_t = b_0 u_t + e_t \qquad \text{Equation 2}$$

My goal is to assess basic input—output processes in order to understand hydrochemical behavior of catchments, not to provide applicable forecasting models. Thus the scope of this study was limited to the analysis of the (deterministic) transfer function model and neglects the (stochastic) noise component, as show in Equation 3.

$$x_t = -a_1 y_{t-1} + b_0 u_t \qquad \text{Equation 3}$$

where y_{t-1} is the output from the previous time-step, u_t is the input at the current time-step, x_t is the modeled output, and –a and b are parameters that are recursively estimated.

Recent daily specific conductance, sulfate and discharge data were modeled in approximately 3-month segments for both the New River and Indian Fork. Discharge was used as the input in all models and specific conductance or sulfate were outputs, depending on the available data. Recursive time-series techniques similar to those presented by Whitehead et al (1986) were used to determine parameters 'a' and 'b'. Model parameters were estimated by applying linear regression to existing measurements and updating the estimates while moving serially through the data. Time-series models developed from recent Indian Fork and New River data were then applied to historic discharge measurements to produce a calculated record of specific conductivity or sulfate. Calculated specific conductivity or sulfate records were then compared to historic discrete measured samples.

RESULTS

1984 marked a considerable change in jurisdiction for mining operations in Tennessee. Even though SMCRA was enacted in 1977 and set for state implementation by 1978, Tennessee continued to operate under its 1974 mining law. In 1980 Tennessee gained conditional primacy of coal mining authority within the state, but this ultimately failed when in 1983 the OSM found "massive breakdowns in state implementations" of SMCRA (McElfish and Beier, 1990). In 1984, the Tennessee Federal Program was initiated and OSM assumed enforcement of mining regulation in Tennessee. While, for most other states 1977-78 denotes a change to stricter permitting, regulation and reclamation, for Tennessee 1984 likely marks this transition. Therefore 'historic' data was considered to be pre-1984 and 'recent' data post-1984.

A nearly continuous record of level, pH, specific conductivity and temperature was collected in the Indian Fork from September 4 through December 10, 2010. Zeros (level n = 3, specific conductivity n

= 2) and less than one and half hour data blanks (on 10/2, 10/11, 11/15, and 11/28) due to calibration and cleaning of equipment in the field were removed from the data set and simple averages were used to estimate appropriate values. Due to high sediment load in the stream and proximity of deciduous trees along the banks, clogging of sonde and bubble line was common. This affects the quality of the collected level and field parameter data. When appropriate and supported by field measurements, collected data was corrected to match field measurements and calibrations, remaining questionable data is highlighted.

In the New River, recorded pH values have been circum-neutral. pH has progressively increased from 1975 to 2008 and, due to sample periodicity, pH ranges generally fall into three time periods: 1975 to 1976, pH 6.3 to 7.7, average pH 6.9; 1979 to 1981, pH 6.8 to 8.2, average pH 7.5; and 2007 to 2008, pH 7.5 to 9.1, average pH 7.9. Limited data suggests sediment load continues to be a problem as it has been since 1975. Suspended sediment concentrations from 1975 to 2008 range between 2 to 989 mg/L which relates to a total sediment load of 0.1 to 20,800 tons/day.

Table 3. Log(c)-log(Q) slopes and R^2 values for New River and Indian Fork.

New River				Indian Fork			
Solute	n=	Slope	R^2	Solute	n=	Slope	R^2
Historic 1975-1982				Historic 1975-1979			
SpC	67	-0.245	0.8048	SO4	115	-0.2342	0.271
SO4	37	-0.292	0.8465	Ca	108	-0.2682	0.5174
Ca	15	-0.268	0.8602	Mg	109	-0.2714	0.6191
Mg	15	-0.2234	0.8033	Recent 2009			
Recent 2007				SpC	80	-0.2688	0.2677
SpC	15-min continuous	-0.178	0.7777	SO4	96	-1.146	0.7094
				Ca	106	-0.2959	0.4209
				Mg	106	-0.2492	0.4249

In the Indian Fork, historic pH values range from 5.2 to 8 with yearly sample averages as follows: 1975 pH 6.6, 1976 pH 7.1, 1977 pH 7.3, 1978 and 1979 pH 7.1, 1980 pH 6.8, and 1981 pH 7.1. In fall

2009, pH values were continuously basic, varying between 7.5 and 8.7. Suspended sediment concentrations from 1978 to 1981 range from 6 to 888 mg/L. Suspended sediment was not analyzed in the current study. Sulfate values in 2009 are less variable and typically lower than those recorded between 1975 and 1979. This could be a product of seasonality and weather conditions as rainfall was particularly heavy during the fall of 2009. The heavy rainfall resulted in few extended low-flow periods which were the conditions when elevated sulfate levels were recorded during 1975 – 1979.

Concentration-Discharge Relationships

Log(c)-log(Q) slopes – For the New River, log(c)-log(Q) slopes were negative for the major weathering derived ions (Ca and Mg) and coal mining indicators (specific conductivity and sulfate) pre- and post-1982 (Table 3). This indicates a long term trend of chemostatic behavior with changing discharge, typical of most catchments, and consistent through time. Historically, the log-log slope of specific conductivity is steeper (-0.2455) compared to 2007 (-0.144) in the New River (Figure 6). Historic sulfate, Ca, and Mg are also represented by similar slopes of -0.292, -0.268, and -0.2234, respectively (Table 3). Recent water chemistry data was not available to compare sulfate, Ca, and Mg.

For the Indian Fork, log-log slopes were also negative and generally poorly correlated. Between historic and recent values, log-log slopes in the Indian Fork generally stayed the same for Ca and Mg. Log-log slopes became steeper for sulfate between historic data at -0.2342 and recent data at -1.146 (Figure 7). Historic Indian Fork specific conductivity values were not available for comparison.

Hysteresis – c-Q relationships for episodic events (i.e. storms) were characterized using 15-minute interval discharge and specific conductivity data for the New River and Indian Fork. For the New River in 2007, 35% of c-Q plots displayed clockwise (CW) rotation, 43% counterclockwise (CCW) rotation and 22% were indeterminate (Table 4). Common c-Q patterns included C1, C3, A1, and A2 of the Evans

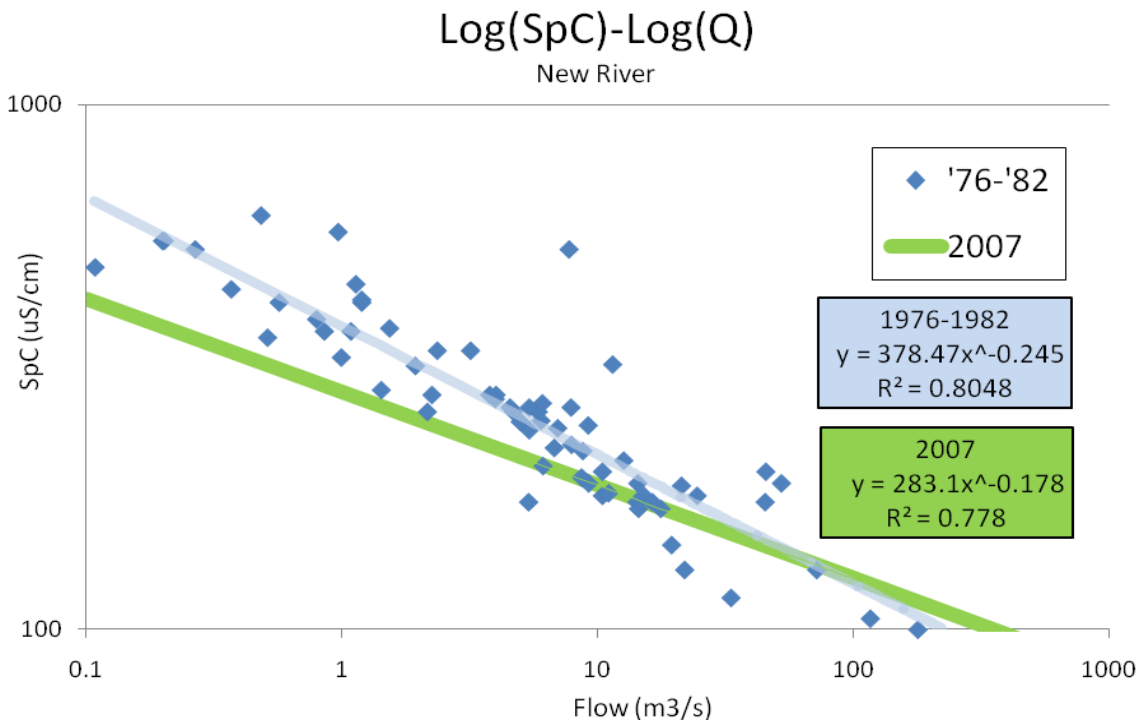

Figure 6. New River log(Spc)-Log(Q) slopes for historic and recent values.

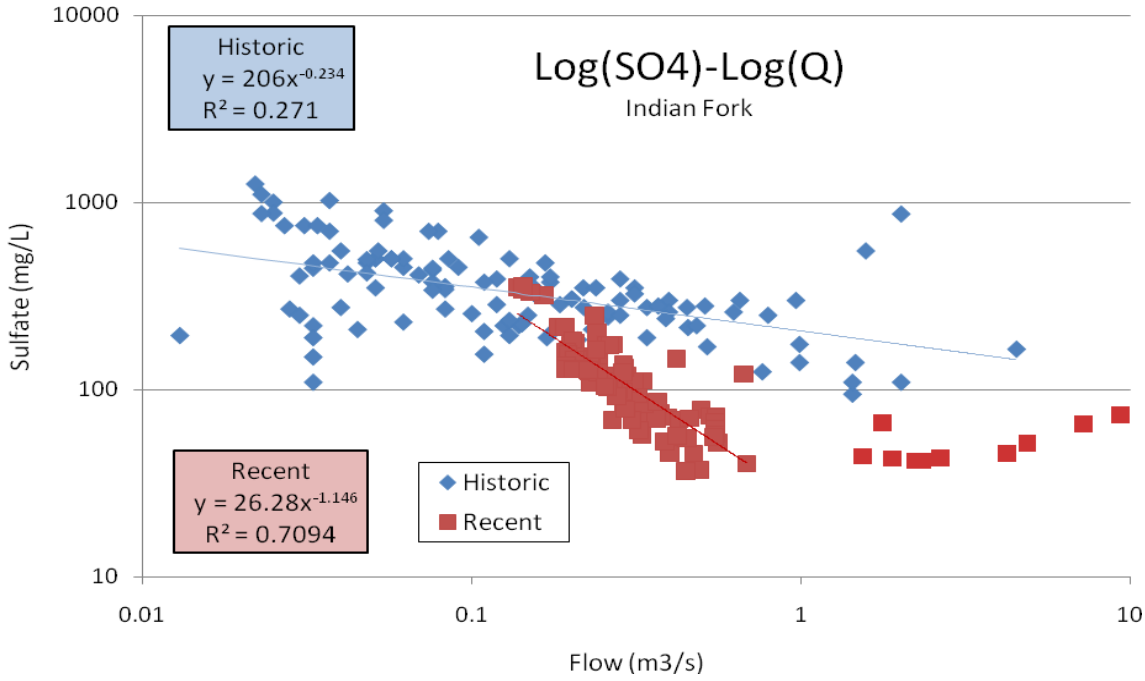

Figure 7. Indian Fork log(SO4)-log(Q) slopes for historic and recent values. Recent data dilution (i.e. slope of -1) at lower flows and generally chemostatic behavior with elevated flow.

and Davies (1989) c-Q plot taxonomy. Loop rotation can generally be predicted according to the peak discharge of the storm event (Figure 8). Storms with a peak flow greater than approximately 25 m^3/s (i.e. high-peak flow) on the hydrograph had CW rotation 67% of the time with 18% of the loops were indeterminate. Storms with peak flows of less than 25 m^3/s (i.e. low-peak flow) exhibited CCW rotation 91% of the time with 9% (i.e. 1 storm event) producing an indeterminate loop. Loop patterns also appeared to be specific to peak flow with C3 patterns common with high-peak flow events and A2 common for low-peak flow events. Additionally, specific conductivity was found to concentrate during low-peak flow events, whereas during high-peak events dilution dominated.

In the Indian Fork, discharge, specific conductivity, sulfate, Mg and Ca data were used to characterize episodic c-Q relationships. Generally for most events a decrease in specific conductivity with increased discharge was observed. Two storms display initial dilution followed by a concentration spike which coincided with the timing of the hydrograph peak followed by dilution. c-Q plots for the Indian Fork displayed clockwise rotation 54% of the time with the remaining plots (46%) categorized as indeterminate (Table 4). Peak flow for events in the Indian Fork ranged from 92 to less than 1 m^3/s and do not display any obvious c-Q trend (Figure 9). c-Q plots for Ca, Mg, and sulfate typically display indeterminate rotation or rotation which corresponds to the specific conductivity pattern. Due to insufficient data, historic hysteresis trends were not analyzed for the New River or Indian Fork.

Table 4. c-Q plot summary for specific conductivity in the New River (2007) and Indian Fork (2009).

	Clockwise		CounterClockwise		Indeterminate		Common Patterns (Evans & Davies 1998)
	n	Percent	n	Percent	n	Percent	
New River							
total (n=23)	8	35	10	43	5	22	C1, C3, A1, A2
> 25 m3/s (n=12)	8	67	---	---	4	18	C1, C3
< 25 m3/s (n=11)	---	---	10	91	1	9	A1, A2
Indian Fork							
total (n=13)	7	54	---	0	6	46	C3, C1

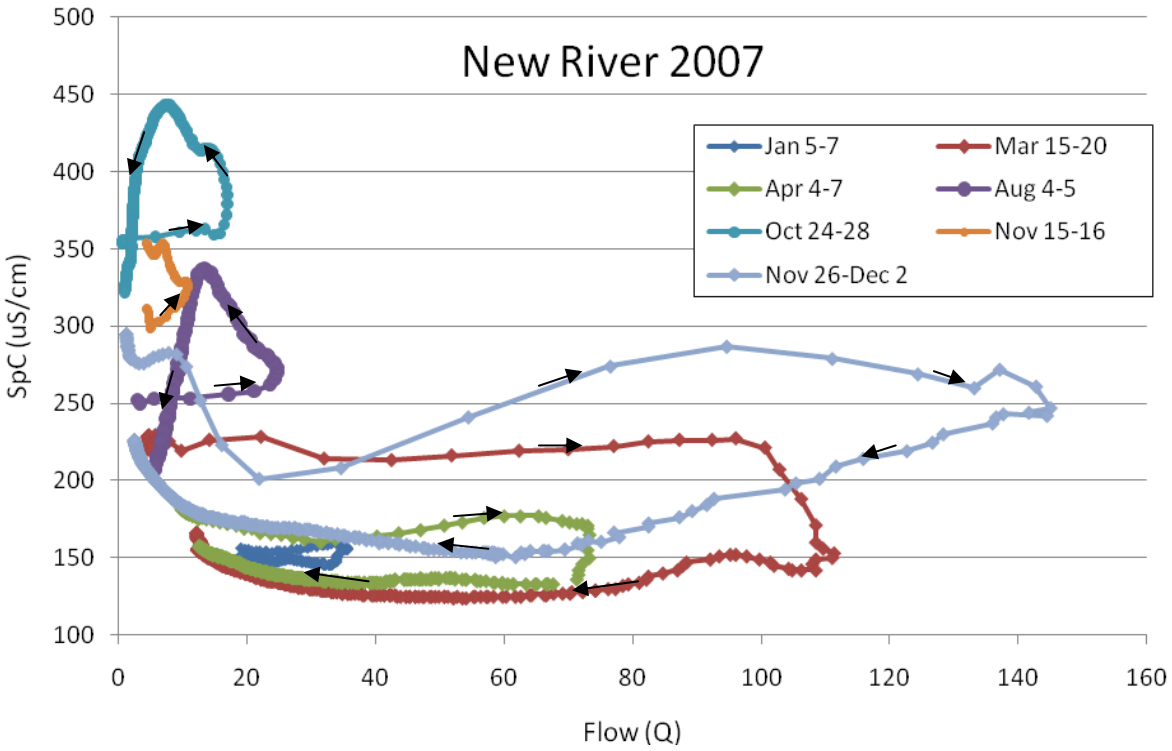

Figure 8. 2007 New River c-Q plots. Above and below 25 m^3/s a divide between CW and CCW rotation is observable.

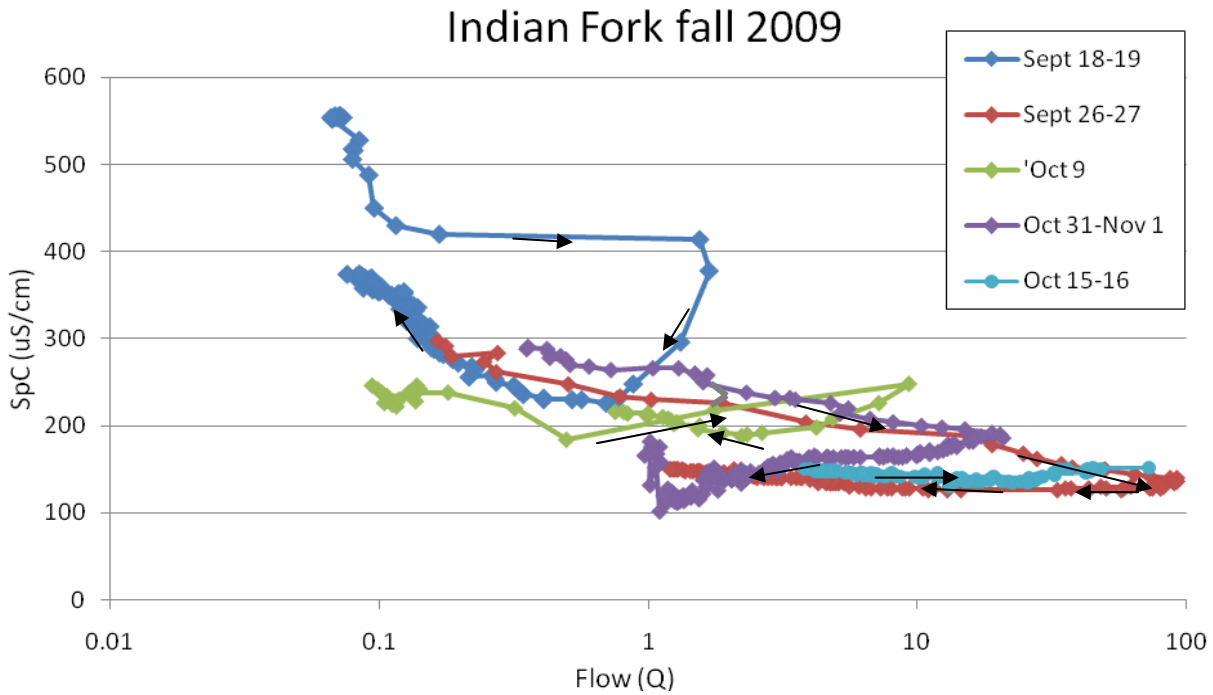

Figure 9. Fall of 2009 Indian Fork c-Q plots. All loops have CW or I rotation.

Time-Series Analysis

New River Recent – Since c-Q plots for the New River alternate rotation depending on the peak flow of a storm event, three month intervals containing peak storm flows above or below 25 m^3/s were extracted from 2007 data and modeled separately. A daily record of discharge and specific conductance where used in modeling the relationship between concentration and discharge. First-order models, with one time-step delay (i.e. one day) adequately reproduced the specific conductance record for both high-peak and low-peak 3-month intervals (Figures 10 and 11). The 'a' parameter for high- and low- peak flow models are not statistically significant indicating the influence of the previous day's specific conductance

Table 5. Time series models calibrated from recent Indian Fork (Fall 2009) and New River (2007) time series data. 'Parameter' category indicates what aspect/characteristic is being modeled.

Catchment	Calibration period	Data interval	Parameter	Equation	Standard Error
New River (2007)	8/15 to 11/15	Daily	SpC: Low-peak	$y_t = 0.8926y_{t-1} + 6.386u_{t-1}$	a: +/- 0.03523 b: +/- 1.379
	3/1 to 6/1	Daily	SpC: High-peak	$y_t = 0.8856y_{t-1} - 0.6332u_{t-1}$	a: +/- 0.02194 b: +/- 0.04863
Indian Fork (fall 2009)	9/5 to 11/5	Daily	SpC	$y_t = 0.9207y_{t-1} - 0.0164u_t$	a: +/- 0.0335
	9/5 to 10/25	Daily	SO4	$y_t = 0.8962y_{t-1} - 2.872u_{t-1}$	a: +/- 0.04666 b: +/- 1.319
	9/5 to 10/25	Daily	Mg	$y_t = 0.8698y_{t-1} - 0.2976u_t$	a: +/- 0.04757

on the output is similar in both scenarios. The 'b' parameter is negative for high-peak flow and positive for low-peak flow events (Table 5), indicating divergent chemical responses during large and small storms.

New River Historic – The 2007 high- and low- peak models were applied to 1980 discharge data to produce a synthetic historic specific conductivity record. The high-peak 2007 model performed well

when applied to a 4-month discharge record, reproducing a 1980 specific conductivity record that approximated periodic measured specific conductivity values (Figure 12). The model fails during extreme events (e.g. the 300 m3/s event in mid-March) when negative conductivity values are generated. This failure suggests the New River does not respond linearly during dramatic storm events. The low-peak 2007 model performed poorly when applied to a six-month low flow period during 1980 (Figure 13). The generated values fail to reach the elevated concentrations measured during this time span. It is inconclusive whether or not historically small storms caused an increase in specific conductivity as evident today, yet measured values do indicate extremely elevated levels of specific conductivity with low flow. The last specific conductivity measurement is decidedly inconsistent; a dilution response is evident after the small storm on Dec 10, 1980 (Figure 13).

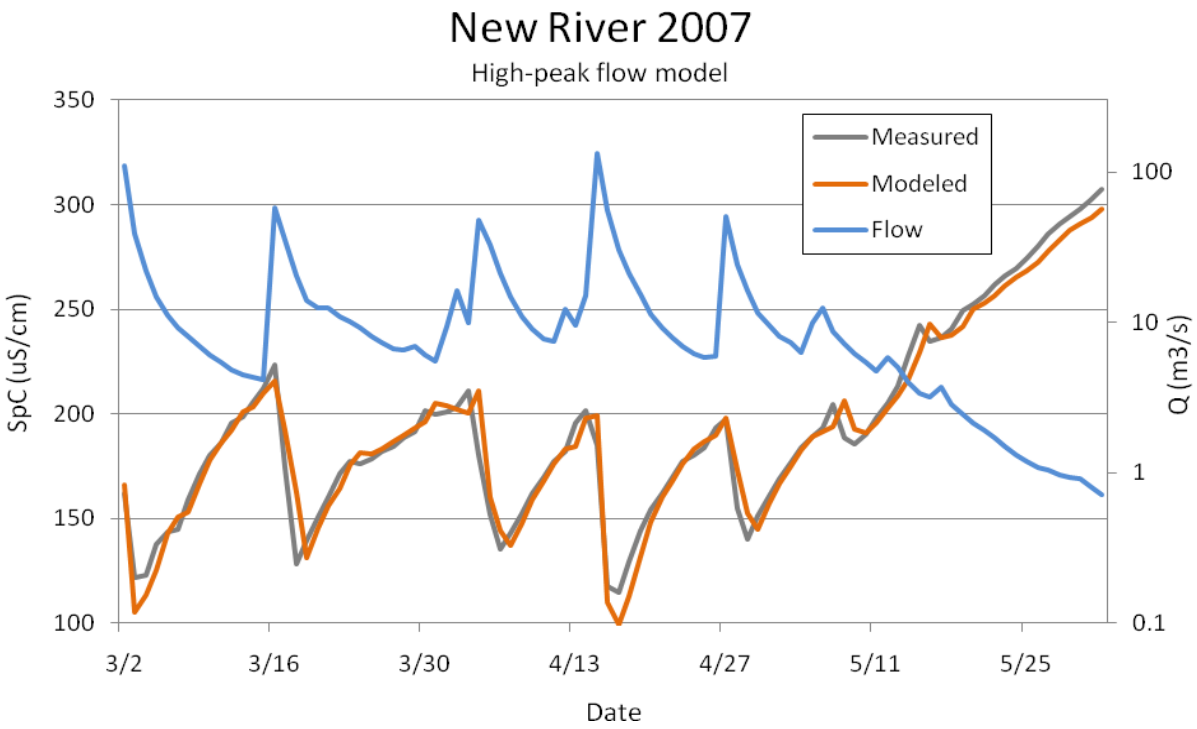

Figure 10. New River 2007 specific conductivity high-peak flow time-series model and measured data.

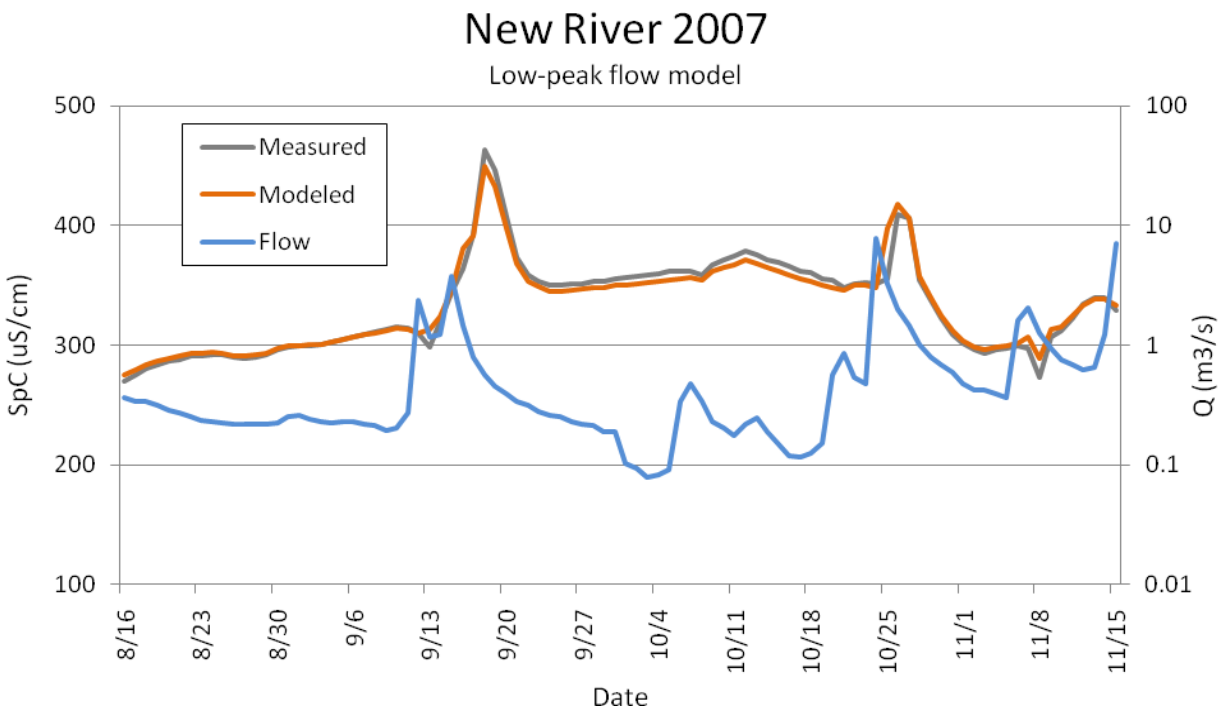

Figure 11. New River 2007 specific conductivity low-peak flow time-series model and measured data.

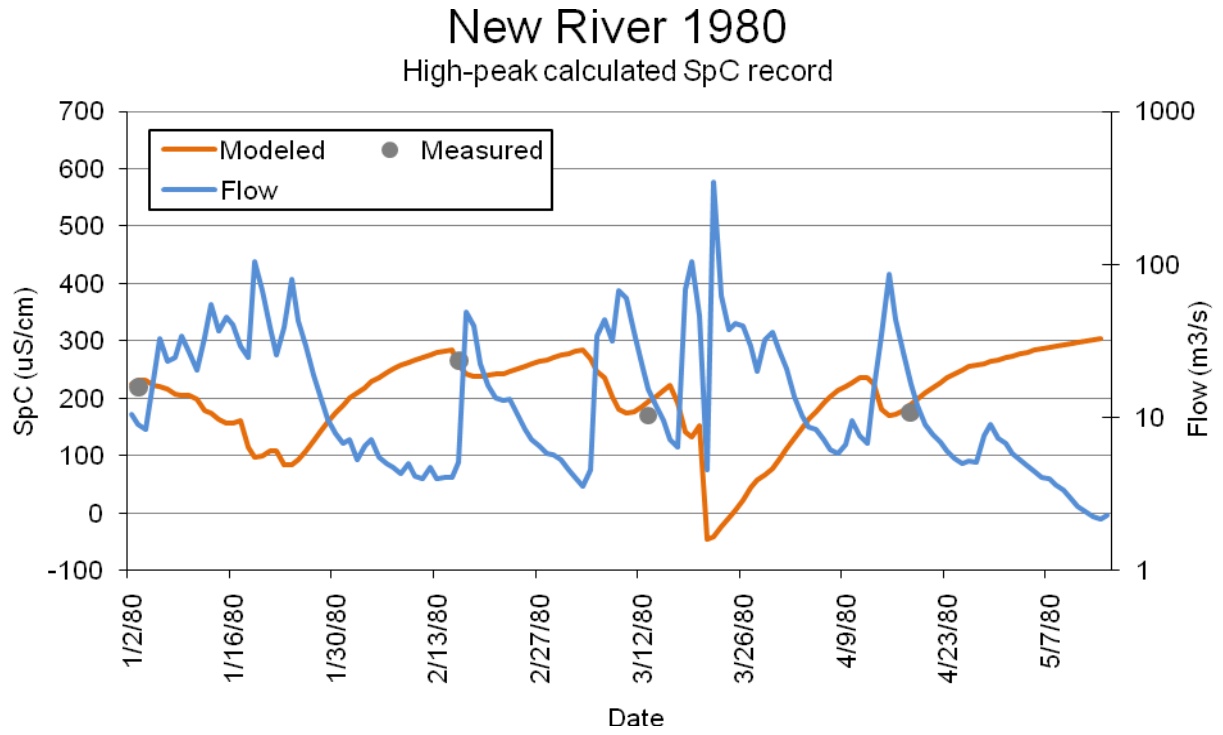

Figure 12. New River calculated 1980 specific conductivity for high-peak period and measured data.

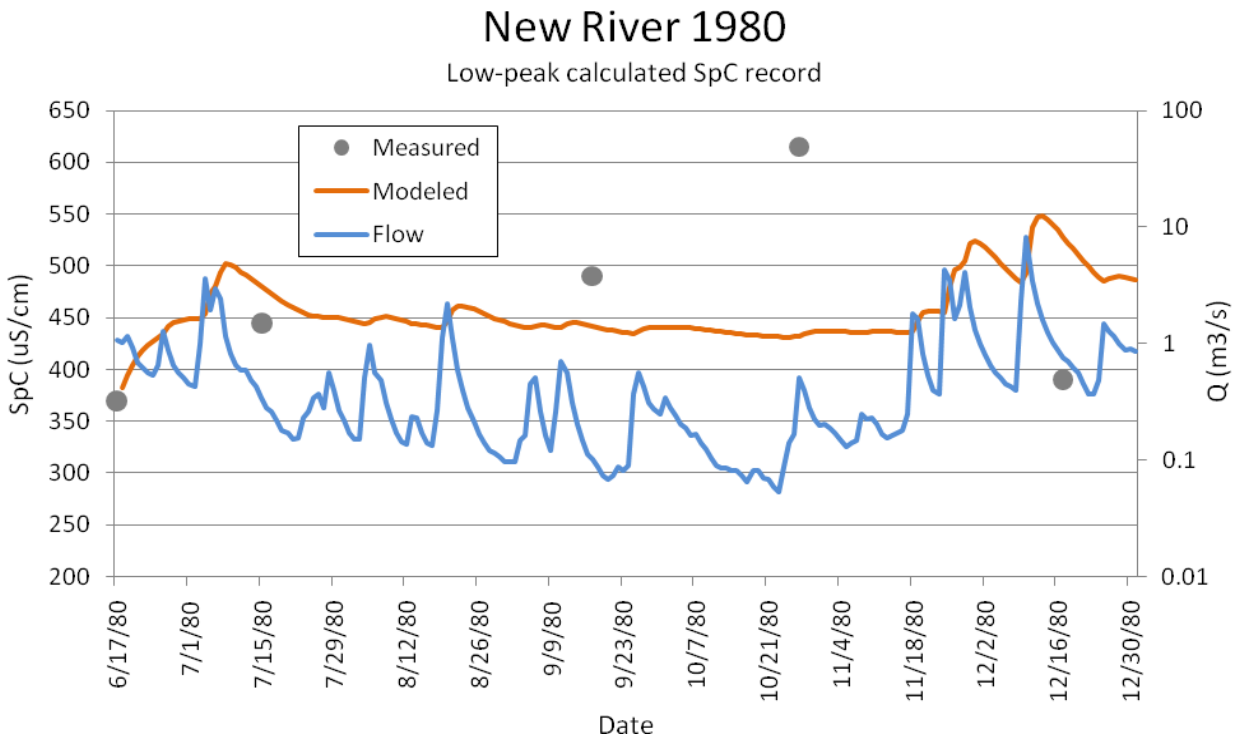

Figure 13. New River calculated 1980 specific conductivity for low-peak period and measured data.

Indian Fork Recent – Time-series models for specific conductivity, sulfate and Mg were developed using daily interval data from the fall of 2009 (Figure 14). First-order models adequately reproduced 2009 values for specific conductivity, sulfate and Mg (Table 5). The 'a' parameter of all three models are not statistically significant indicating similar influence of these solutes with changing flow conditions. Compared with specific conductivity and Mg the sulfate model is the most dependent on flow conditions. The 'b' parameter is negative for all models indicating an overall diluting effect of increased flow.

Indian Fork Historic – The 2009 sulfate time-series model for Indian Fork was applied to 1975 flow data to calculate a synthetic sulfate record. Three large storms occurred during the calibration period and low flow conditions were not recorded. Flow conditions were considerably different during 1975 when peak storm flows were smaller and low flow conditions dominated, thus the artificial 1975

sulfate record was highly inaccurate when compared to discrete measured values (Figure 15). The 1975 calculated sulfate record increases to approximately 450 mg/L and remains relatively steady, fluctuating only slightly during larger storm flows on March 12 and November 12, 1976. The flow input data was not sufficiently large to perturb the system.

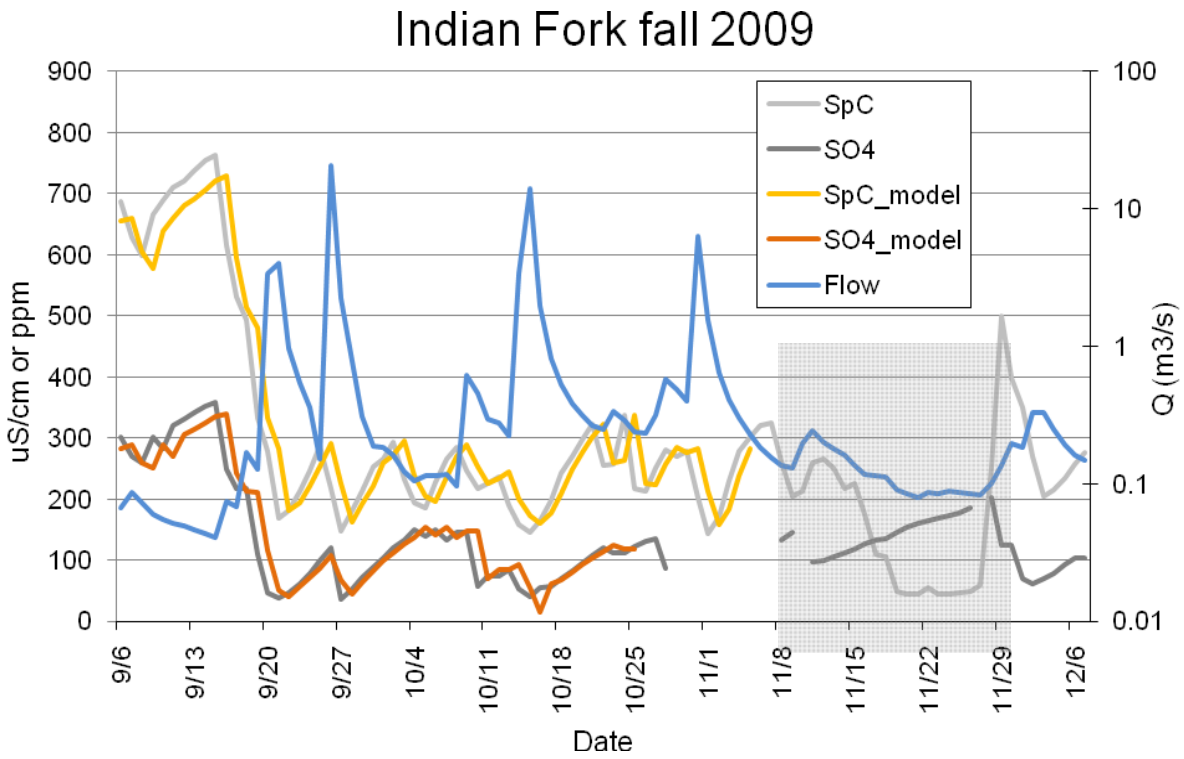

Figure 14. Indian Fork 2009 modeled time-series results and measured data. Light gray box indicates a period of questionable specific conductivity measurements.

Synoptic Sampling

Lateral sampling of the Indian Fork was accomplished on August 25, 30, and November 1, 2009 to assess the spatial variability of water quality. Specific conductivity and sulfate concentrations gradually increased from the mouth of the stream to an unnamed tributary located half-way up the stream reach,

hereon referred to as Lil'n Trib (Figure 1, location 1). Past Lil'n Trib specific conductivity and sulfate values decreased sharply. During reconnaissance in this area on August 30 and November 11, specific

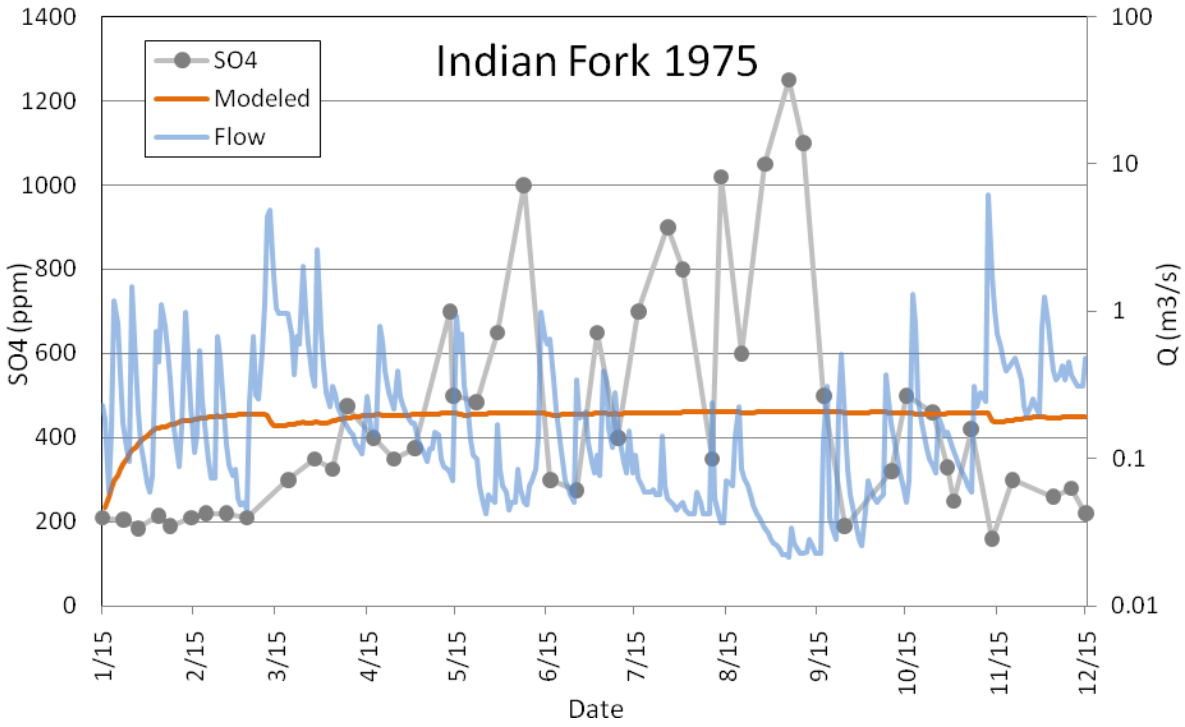

Figure 15. Indian Fork 1975 calculated sulfate and measured data.

conductivity values were: 743 and 573 uS/cm downstream of Lil'n Trib, 552 and 291 uS/cm upstream of Lil'n Trib, and 1354 and 1000 uS/cm in Lil'n Trib. Within Lil'n Trib specific conductivity increased while moving upstream. Reconnaissance of the upper portions of this tributary did not occur due to steep terrain and dense brush. However, consultation of a 2003 mining operations plan map of the Indian Fork catchment indicates the Lil'n Trib drains a temporary spoil storage area.

Joe Branch and an unnamed tributary to Joe Branch are listed as a TDEC 303d streams because of loss of biological integrity due to siltation and pH (Figure 1, location 2). This degradation is caused by abandoned mining and these stream are indicated as category 5, meaning one or more uses are not

being met and a total maximum daily load evaluation is needed for the listed pollutant (TDEC 2008). Surprisingly, during synoptic sampling, samples from the mouth of Joe Branch indicated specific conductivity almost half (605 uS/cm) that of the Indian Fork main-stem (323 uS/cm) and sulfate concentrations 100 mg/L lower.

At the lower reaches of the Indian Fork, bright red-orange Fe-hydroxide precipitates are evident (Figure 1, location 4). Seeps laden with flocculating Fe-hydroxide emanate from the contact between shale bedrock and overlying unconsolidated soil and sediment (Figure 16). The area along this portion of the north bank was once a coal washing facility and spoil disposal area (OSM official, personal communication). During periods of low flow, small isolated pools along the bank, some directly upstream of the ISCO sampling location, accumulate Fe-hydroxide precipitate and have an observable oil sheen on the surface, additionally silt and Fe-hydroxide laden sediment are deposited during these times (Figure 17). On August 8, 2009, during a site visit within less than an hour of a considerable storm, the water in the Indian Fork was very turbid and milky-orange to the point of being opaque. Silt and Fe-hydroxide precipitate were actively being deposited on the substrate. The ISCO was not yet installed in the field and a similar event was not recorded during the sampling period, though this suggesting flushing of spoil material may play an important role in the Indian Fork.

Compared to the New River main-stem, the Indian Fork has elevated concentrations of almost every solute analyzed. Specific conductivity in the New River upstream of the Indian Fork was 319 uS/cm, compared to 408 uS/cm downstream and 548 uS/cm in the Indian Fork. Sulfate analyses indicate a similar trend in the New River at 79, 132, and 190 ppm, upstream, downstream and in the Indian Fork, respectively. A substantial amount of sediment is also evident in the New River downstream of the confluence with the Indian Fork (Figure 18).

Figure 16. Fe-hydroxide seeps and precipitate from north bank of Indian Fork. Seeps emanate from contact of shale bedrock with overlying soil and sediment. Figure 1, location 4. Person for scale.

Figure 17 A & B. Examples of Fe-hydroxide pools in Indian Fork. A: Pool along north bank, adjacent to seeps, with suspended Fe-hydroxide and oil sheen on surface. B: Representative pool with Fe-hydroxide precipitate which form during low flow periods, upstream of Isco location and downstream of seeps. Field notebook for scale.

Figure 18: Sediment deposition in the New River main-stem. Mouth of Indian Fork located in upper right corner of photo. Figure 1, location 5.

DISCUSSION

New River Temporal Interpretations

Several changes including enactment of legislation requiring more stringent reclamation practices, a switch away from mining the Big Mary to mining the Pewee and Walnut Mountain coal seams, and an overall decrease in coal production, likely have temporal impacts on the water chemistry in the New River. It was anticipated that collectively these changes, having occurred over three decades of continuous mining, resulted in improved water quality. pH has increased from an average of 6.9 during the mid-1970s to 7.9 in 2007 and 2008, and specific conductivity was lower, particularly during low flow periods. Decreased log-log slope for specific conductivity from historic to recent data indicates the basin is acting more chemostatically, which is typical for most undisturbed catchments in the U.S. (Godsey et al 2009).

Surface disturbance and deforestation due to surface mining perturb the natural hydrologic response of catchments. Swale and pasture backfill (Figure 2) were the main forms of reclamation in the New River prior to SMCRA. After the enactment of SMCRA in 1977, and increasingly so after the Federal takeover of coal regulation in Tennessee in 1984, backfill-to-approximate-original-contour reclamation became the standard reclamation method for contour surface mines (Figure 2). It is likely a basin-wide switch in reclamation practices could alter pre-established flow paths within the New River watershed. In 1975, Tung used the TVA Daily Streamflow Model to simulate daily stream and peak flow through the New River under increasing percentages of mine-disturbed land area. He speculated the accumulated dimensions of the bench and spoil areas within the New River altered storage capacity and shifted surface water routing, encouraging rapid transportation of water to the stream during major storms and increased water storage in spoil that was released during low flow. Tung (1975) found that when approximately 5% of the watershed was disturbed by mining, peak flows increased by 31% and low flows increased by 30% during a normal water year. In a more recent study, Negley and Eshleman (2002) observed statistically significant higher storm runoff and greater total storm discharge from a reclaimed surface mine catchment compared to a largely undisturbed forested catchment. No significant changes were observed during low flow in the Negley and Eshleman (2002) study, possibly because mining disturbance and reclamation in the studied catchment occurred between 1982 and 1984, after SMCRA legislation.

These two studies suggest different hydrologic alterations occur depending on reclamation practice. Peak storm flow increases with both reclamation methods yet swale backfill reclamation results in increased low flow volume, an effect not observed with backfill-to-approximate-original-contour reclamation. Supported by the ability of the 2007 high-flow model to reproduce a specific conductivity record that closely approximates 1980 measured values, high-flow conditions between 1980 and 2007 have largely remained unchanged. However, altered flow paths due to a basin-wide shift

in reclamation practices provides a possible explanation for the inability of the New River low-flow model to reproduce an accurate 1980 specific conductivity record. The impact of reclamation on low flow hydrology may have lessened with an increase in more stringent reclamation practices after the implementation of SMCRA and overall decrease in mining in the New River watershed since 1980.

Indian Fork Temporal Interpretations

Similar hydrochemical trends were anticipated between 1975 and 2009 in the Indian Fork because mining in the catchment had ceased in 1972 and re-vegetation was completed by 1975. Thus, other than natural attenuation of spoil material, little change has occurred in the catchment. However, concentration-discharge relationships and time-series modeling indicated different hydrochemical trends between 1975 and 2009. Natural attenuation of spoil material over 30 years may account for the apparent improvement observed in discrete sampling. pH has risen from an average of 6.6 in 1975 to between 7.5 and 8.5 in 2009, and sulfate and specific conductivity are generally lower. Log-log slopes for Ca and Mg largely remained the same between historic and current values suggesting chemical weathering has stayed constant.

c-Q relationships and the time-series model present a more complicated picture. In 2009, sulfate had a log-log slope of -1.146, which can be physically interpreted as a dilution c-Q relationship (Godsey et al 2009). This is considerably different from the 1975 c-Q relationship, where a log-log slope of -0.2342 suggests sulfate generally responded chemostatically to changing hydrologic conditions. This discrepancy is likely the result of the spatial variability of solute concentrations along the stream reach. A large attenuation of solute concentrations between spoil backfill and the stream has been documented in the Indian Fork (Dickens et al 1989). Most of the spoil backfill is located along the perimeter of the catchment, at least 600 m in elevation above the streambed. However, the reclaimed spoil causing the Fe-oxide seeps observed during synoptic sampling is adjacent to the stream on the

north bank, upstream of the sampling location for this study. During the 1970s sampling effort the gaging station and presumably the location of stream water collection was located just below Joe Branch tributary and upstream of the extensive Fe-oxide seeps (Figure 1, location 3). Thus the impact of this input is not reflected in the historic water chemistry for the Indian Fork.

Additionally, the temporal disparity in the Indian Fork water quality data is likely affected by the rainy field season during the fall of 2009. In the northern portion of the Cumberland Plateau average rainfall between the months of September and December typically total approximately 36 cm; during the fall of 2009 the average was exceeded by almost 12 cm (NOAA). The 2009 sulfate time-series model was unable to reproduce the elevated levels of sulfate recorded in 1975 possibly because the low flow conditions which resulted in elevated sulfate concentrations in 1975 did not occur during the fall 2009 sampling season. Recharge from spoil is known to be a significant portion of the baseflow to Indian Fork, providing approximately 44% of the annual water yield for the catchment (Dickens 1982). Dickens (1982) found that maximum solute concentrations within the spoil corresponded to periods of minimal water storage and thus frequent rainfall during the fall of 2009 likely flushed the highly concentrated spoil water allowing for continued dilution of solutes.

The reclamation practices of cast overburden and swale backfill in the Indian Fork may still play an active role in the water quality of the stream almost four decades later. In a six year study of the swale backfill in the Indian Fork, solute concentration in the spoil water remained relatively steady and overall saturation increased with time (Dickens 1982). This is likely why hydrochemical trends do not indicate natural attenuation even with significant rainfall. When compared with other small catchments in the New River watershed, those that were mined post-SMCRA demonstrate improved water quality compared to Indian Fork (Dickens et al 1989). Of six small catchments studied in the New River watershed from 1972 to 1985, sulfate levels were found to decrease with new mining and reclamation technology; alternatively, all other solutes were more closely related to the area disturbed by mining

and the coal seams mined (Dickens et al 1989, Minear and Tschantz 1976). And as observed in the Indian Fork, log-log slopes for Ca and Mg are generally the same for the 1970s and 2009 which correspond to the predominately unchanged percentage of disturbed catchment area between 1975 and 2009.

Spatial Interpretations

The spatial disparity of hydrochemical responses in the New River and Indian Fork is likely attributable to the percent of disturbed area within these basins. Approximately 23% of the land area in the Indian Fork catchment and only about 7% (as of 1979) of the New River watershed has been disturbed due to coal mining activities. The New River estimate is anticipated to be lower than the actual area disturbed presently. Coal mining has continued in the watershed since 1979, however production in Tennessee peaked in 1971 and has substantially declined since. Even with an estimated increase in disturbed area in the New River, it is highly likely the percent area of disturbed land is still considerably greater for the Indian Fork. Contour mining and subsequent reclamation alters the hydrology of a system and creates a chemically distinct water source within the spoil. Dickens (1982) completed a detailed study of spoil bank water quality in the Indian Fork and found solute concentrations in spoil water were significantly elevated above shallow, undisturbed groundwater and of poorer quality than deep regional groundwater.

The results of this study suggest that because the Indian Fork is so disturbed it can be described using a two component mixing model comprised of impacted and non-impacted water. For the Indian Fork, the impacted and non-impacted components can generally be conceptualized as spoil water and event water (e.g. precipitation, runoff, undisturbed shallow groundwater). The dominant hysteresis pattern in the Indian Fork has a negative trend, where total solute concentration during an event is lower than during base flow, and can be classified as a C3 loop according to Evans and Davies (1998)

(Figure 3). A C3 pattern for a two component system suggests pre-event water peaks prior to event water, meaning in the Indian Fork impacted water arrives early in the hydrograph.

The impact of spoil water on hysteresis in the New River is more confusing. The c-Q and time-series results coupled with a physical understanding of reclamation practices within the watershed, suggest the New River may be described as a three component system. The three components can be conceptualized as impacted water (i.e. spoil water), event water (e.g. precipitation and through-fall), and non-impacted water (e.g. groundwater or non-impacted soil water). How these three components as expressed in the hydrograph and in the total chemical composition of the stream, varies markedly according to the peak flow of a storm event. High-peak and low-peak flow events almost exclusively produce C3 (dilution) or A2 (concentration) hysteresis patterns, respectively (Figure 8).

In order to assess the robustness of the Evans and Davies (1998) taxonomy, Chanat et al (2002) varied the volume, timing and solute concentration of a three component hydrograph and characterized the resulting c-Q plots. While C1 and A1 patterns were found to be the only consistent and unique patterns associated with particular component rankings, component rankings with soil water on either end were also considered robust. Why c-Q plots reverse rotation in a specific watershed is still unanswered. The increasing influence of event water on the system may cause reversal (Chanat et al 2002). Rice et al (2004) further explored c-Q plots with a large sample data set in hopes of identifying physical predictors of loop pattern and rotation. Results were ultimately inconclusive, yet patterns were found to be associated with things like low base flow, air temperature and length of time to hydrograph peak.

The arrival or influence (i.e. the ability of a particular component to affect the overall concentration of the hydrograph) of impacted water greatly affects the resulting c-Q patterns in the New River. The C3 patterns observed during high-peak flow (greater than 25 m^3/s) indicate a component ranking of $C_{NI} > C_E > C_I$ and A2 patterns observed during low-peak flow indicate a component

ranking of $C_I > C_E > C_{NI}$ (Figure 3). It has been observed that rotation reversal occurs less when soil water (i.e. impacted water in the case of this study) occurs at either end of the component ranking and Chanat et al (2002) suggest that only under rare conditions does reversal occur. Note that in the New River not only the shape and roration of the hysteresis patterns change during low- and high- peak storms but also the overall dilution or concentration trend. The positive and negative 'b' values in the low- and high- flow time-series models, also suggests significantly different flow paths may be excited depending on the peak storm conditions.

I propose the magnitude of the storm (i.e. peak storm flow) is the driving force behind loop reversal in the New River. Physical interpretation of A2 patterns suggest event water is late in the hydrograph, event water volume is small, or impacted water is influential (Chanat et al 2002), whereas C3 patterns indicate the dominance of groundwater (i.e. non-impacted water) on overall stream water composition. Speculatively, small storms provide enough water to mobilize the impacted water from the spoil throughout the watershed, however large storms release considerable volumes of precipitation that mobilize the groundwater and other non-impacted water in the New River which ultimately dilute impacted water. The relative change in flow volume drives loop reversal in the New River. A similar distinction between CW and CCW rotation during large and small storms, respectively, was observed in a 637 km^2 partially developed catchment (14% urban, 67% forest) near Atlanta, Georgia (Rose 2003). Loop reversal and pattern change is so noticeable in the New River because it is a disturbed basin; the widespread occurrence of spoil throughout watershed imprints a distinct chemical signature on water from this source and flow paths during large storm events are known to enhance water delivery to the stream.

Even though this study deals with basins impacted by coal mining, the role of the spoil water in the New River may be related to the soil water component typically described in undisturbed catchments. The robustness of A2 loops in the New River is likely due the high concentration of

dissolved solutes in the spoil water which provide a distinctive signal in the hysteresis patterns. C2 and A2 loops are found to be most robust when component concentrations differ by orders of magnitude (Chanat et al 2002). Thus spoil water and soil water likely represent analogous reservoirs that respond similarly to precipitation input. Extreme low- and high- peak storms may produce hysteresis plots that can be described as 'end members'. If this conclusion holds for undisturbed catchments, then the magnitude of the storm event may be directly related to c-Q pattern and may also explain other systems where loop rotation reversal is observed.

Future mining

As of 2009, no active mining has occurred in the Indian Fork catchment for nearly four decades; this may change as rising energy demands increase coal production throughout the Appalachian coal region. Re-mining the contour benches in the Indian Fork may occur if economically feasible. This poses the question, how may the re-introduction of mining affect water quality in the Indian Fork?

Any re-mining of the existing contour benches already present in the Indian Fork would be required to meet SMCRA regulations. The swale backfill and associated ponds would be removed and reclaimed by backfill-to-approximate-original-contour. The elimination of the ponds would likely decrease the water infiltration into the spoil, decrease low flow volume and lower sulfate concentration in the stream. In contrast, backfilling spoil to the approximate original contour may approach the angle of repose for the spoil material, creating a highly erodible surface likely to fail and inevitably exposing more material to chemical weathering. Significant increases in sediment and solute concentrations have been documented during the first three years of return-to-approximate-contour reclamation on steep slopes (Dickens et al 1989). Once vegetation becomes established on the spoil, suspended sediment was during storm events is reduced to the levels observed in undisturbed catchments.

Ultimately, re-mining may have little effect on the water quality of the Indian Fork in the long term. Backfill-to-approximate-original-contour reclamation would permanently remove the pools associated with swale backfill which are known to contribute to a significant portion of the flow and solute concentration of the Indian Fork, yet field investigations of SMCRA reclamation methods on steep slopes indicate continued elevation of solute concentrations, suggesting continued chemical weathering. (Dickens 1982 and Dickens et al 1985). Additionally, previous studies of the sub-catchments in the New River discussed above, indicate sulfate is closely related to improved mining and reclamation technology and all other solutes are related to the area of mine disturbance and which coal seams are mined (Dickens 1989). Thus, while sulfate may decrease with SMCRA reclamation, the concentration of other solutes is likely to stay the same or increase as the area of coal mining disturbance increases in the catchment. Dickens et al (1989) goes so far to state, "New mining regulations may only delay the long-term impact of surface mines on stream water quality." Whether or not this is the case needs to be addressed in greater detail.

CONCLUSIONS

Overall the water quality in terms of solute concentration in the New River and Indian Fork is within state and federal regulations. However, other tributaries to the New River and a tributary to the Indian Fork are considered impaired (i.e. quality water does not meet the standards according to the designated water use for the stream). The results of this study indicate elevated levels of solutes during small storms in the summer and fall for the New River; it may be prudent for samples to be collected during this period to verify that, in fact, the New River is within water quality regulations during these events. Additionally, in the Indian Fork the turbid water observed during the site visit on August 8, 2009 suggests flushing of spoil alters the hydrochemistry of the stream. While unable to study this event or

similar events due to the rainy field season in the fall of 2009, more study focused on the flushing mechanics of the Indian Fork is needed to fully assess the water quality of the stream.

Conclusions of this study include the following:

- Temporal changes were observed in the New River watershed between 1980 and 2007. While the 2007 time-series model accurately calculated a record of specific conductivity during high-peak flows in 1980, the low-peak flow model was unable to reproduce a representative record for low-peak flows during 1980. This change in hydrochemical trends during low-peak events may be explained by a basin-wide shift in reclamation practices related to the enactment SMCRA which likely altered hydrologic flow paths within the watershed.
- In the Indian Fork the hydrochemical response of the catchment shifted from chemostatic to dilution from 1975 to 2009. This temporal change is likely due to the different sampling locations; extensive Fe-hydroxide seeps are located downstream of the 1975 sample location and upstream of the 2009 location.
- Additionally, the Indian Fork the time-series model calibrated from 2009 data was unable to calculate an accurate sulfate record for 1975. This temporal change is likely the result of a rainy field season during the fall of 2009 when extended low flow periods were not recorded and thus the elevated levels of sulfate observed in 1975 could not be determined.
- The spatial disparity of hydrochemical responses in the New River and Indian Fork is likely attributable to the percent of disturbed area within these basins. Around 7% of the New River watershed is disturbed due to coal mining activities whereas 23% of the Indian Fork is disturbed. This difference in hydrochemical response is expressed in the alternating c-Q loop direction in the New River, not observed in the Indian Fork, and the statistically significant 'b' parameters in the time-series models for these watersheds.

- Due to the magnitude of disturbance, the Indian Fork can be described as a two component system, consisting of the mixing of impacted (i.e. spoil water) and non-impacted (e.g. undisturbed shallow groundwater, runoff) water sources.
- A conceptual mixing model for the New River is more complex. Above 25 m3/s discharge c-Q loop rotation is CW and diluted whereas below 25 m3/s discharge c-Q loop rotation is CCW and concentrated. A three component system may explain the c-Q loop reversal observed, the components are conceptualized as impacted water (i.e. spoil water), non-impacted water (e.g. undisturbed shallow groundwater, deeper groundwater), and event water (e.g. rainfall, through fall).
- The magnitude of a storm event may be the driving force behind c-Q loop reversal in the New River watershed. Additionally, spoil water and soil water may likely represent analogous reservoirs that respond similarly to rainwater input. This proposition may be applicable to other, undisturbed catchments.

APPENDIX A

Page

Table 1: Indian Fork Chemical analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Anions: ICP-OES analysis
Cations: IC Analysis

negative values & uv - under detection limit
CCV - continuing calibration verification (standard at 0.5 mg/L)
CCB - continuing calibration blank (1% nitric solution)
n.a. - no detection

Date	Sample #	Al mg/L	Ca mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Mg mg/L	Mn mg/L	Na mg/L	Ni mg/L	P mg/L	S mg/L
Field samples														
5/15/2009	JM-051509-2	0.0086	43.8734					2.63205	14.983		10.6654			47.4592
8/11/2009	JM-081109-1	0.0026	48.7411			0.0010		3.7264	15.9356		10.1015		0.0193	55.5499
8/12/2009	JM-081209-1		50.7393			0.0004		3.8047	16.4157		10.3389		0.0155	57.3311
8/13/2009	JM-081309-1	0.0108	55.2196			0.0004		4.0460	17.8075		12.0515		0.0018	63.9532
8/14/2009	JM-081409-1		59.3442			0.0006		4.3235	18.8005		13.4537		0.0107	69.4955
8/25/2009	JM-082509-15	0.0124	56.4062			0.0021		4.1291	17.7332		12.3204		0.0060	63.1207
8/26/2009	JM-082609-1	0.0148	60.1902		0.0001	0.0019		4.3905	18.7514	0.0001	13.8148		0.0081	69.4287
8/27/2009	JM-082709-1	0.0110	64.5752		0.0000	0.0001		4.6161	19.8311	0.0006	15.1255		0.0087	75.1995
9/4/2009	JM-090409-1		80.2936			0.0009		4.8935	23.6164		20.0323			89.1542
9/5/2009	JM-090509-1		81.4767			0.0005		4.9610	24.0504		20.6479			91.3268
9/6/2009	JM-090609-1		82.7051			0.0003		5.0662	24.2974		20.9862			92.3289
9/7/2009	JM-090709-1		75.1848		0.0001	0.0001		4.8074	22.1722		18.6970			84.4439
9/8/2009	JM-090809-1		73.1971		0.0006			4.6329	21.8487		17.5621			80.6566
9/9/2009	JM-090909-1		81.4594		0.0003	0.0003		5.0308	23.9053		20.2231			92.1560
9/10/2009	JM-091009-1		76.9649		0.0005	0.0015		4.7824	22.8000		18.7430			86.2690
9/11/2009	JM-091109-2	0.0009	83.9478	0.0004	0.0000	0.0018		4.6301	25.4055		35.3626	0.0003		116.0790
9/12/2009	JM-091209-1		87.5675	0.0000	0.0005	0.0018		4.8053	26.1992		37.4726	0.0017		117.9780
9/13/2009	JM-091309-1		87.5207	0.0003	0.0001	0.0023		4.7507	26.1024		38.2827	0.0007		122.0960
9/14/2009	JM-091409-1		89.5016	0.0004	0.0003	0.0013		4.9000	26.9611		39.6221	0.0007		126.1190
9/15/2009	JM-091509-1		90.5354		0.0002	0.0022		5.0178	27.0183		40.7458	0.0009		127.4420
9/16/2009	JM-091609-1		69.3922		0.0002	0.0025		4.2502	21.6238		25.2185	0.0011		92.0261
9/17/2009	JM-091709-1		65.0610	0.0004	0.0006	0.0009		3.8615	20.4458		23.2436	0.0005		79.8143
9/18/2009	JM-091809-1		65.3121		0.0001	0.0010		3.8603	20.5150		23.5161	0.0005		80.6116
9/19/2009	JM-091909-1		42.3664		0.0004	0.0010		2.6301	14.2917		10.6798	0.0004		43.9283
9/20/2009	JM-092009-1	0.0066	25.4425	0.0002	0.0003	0.0009	0.0057	1.8569	9.1667		3.9795	0.0008		20.7566
9/21/2009	JM-092109-1	0.0086	21.0369		0.0005	0.0010	0.0102	1.4311	8.0581		2.7443	0.0009		17.4380
9/22/2009	JM-092209-1	0.0102	23.5725		0.0002	0.0009	0.0052	1.5166	8.8602		3.3864	0.0012		20.4465
9/24/2009	JM-092409-1	0.0037	31.9340	0.0002		0.0014		1.9376	11.3159	0.0001	6.4635	0.0015		32.9005
9/25/2009	JM-092509-1	0.0031	37.1322		0.0005	0.0007	0.0033	2.2248	12.8800		8.0204	0.0021		40.4468
9/26/2009	JM-092609-1	0.0206	21.3467		0.0003	0.0009	0.0125	1.7420	7.5753		4.7432	0.0009		20.4404
9/27/2009	JM-092709-1	0.0084	18.7306	0.0007	0.0000	0.0006	0.0197	1.3124	7.2912		2.5922	0.0008		16.7581
9/28/2009	JM-092809-1	0.0150	23.1827	0.0001	0.0003	0.0014	0.0149	1.4715	8.7348		3.7396	0.0014		23.4053
9/29/2009	JM-092909-1	0.0132	29.1228			0.0008	0.0040	1.5970	11.4880		5.9196	0.0007		32.4700
9/30/2009	JM-093009-1	0.0142	34.5158	0.0001		0.0009	0.0002	1.7885	13.1606		7.6379	0.0004		39.8276

Table 1: Indian Fork Chemical analysis

Anions: ICP-OES analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Cations: IC Analysis

Date	Sample #	Al mg/L	Ca mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Mg mg/L	Mn mg/L	Na mg/L	Ni mg/L	P mg/L	S mg/L
Field samples														
10/1/2009	JM-100109-1	0.0066	38.3701		0.0000	0.0011		1.9561	14.2969		9.3871			45.3273
10/2/2009	JM-100209-1	0.0078	41.8465		0.0001	0.0009	0.0028	2.1951	15.2930		11.4554			51.2705
10/3/2009	JM-100309-1	0.0063	45.0786			0.0010		2.3146	16.1731		13.5482	0.0010		56.3512
10/4/2009	JM-100409-1	0.0066	49.3172		0.0002	0.0004		2.4426	17.5126		16.0332	0.0014		63.3495
10/5/2009	JM-100509-1	0.0118	46.6826	0.0002	0.0004	0.0010		2.4439	16.5966		14.3710	0.0014		57.8612
10/6/2009	JM-100609-1	0.0139	49.7910		0.0002	0.0004	0.0005	2.6134	17.5631		16.1241	0.0023		63.2371
10/7/2009	JM-100709-1	0.0017	46.3886		0.0003	0.0009	0.0000	2.5161	16.5909		14.0765	0.0008		56.5667
10/8/2009	JM-100809-1	0.0035	49.0261	0.0002	0.0002	0.0005		2.5104	17.3403		15.1934	0.0014		60.9901
10/9/2009	JM-100909-1	0.0186	48.7070		0.0002	0.0013	0.0095	2.6843	17.0464		15.3319	0.0028		61.4782
10/10/2009	JM-101009-1	0.0130	26.0790	0.0003	0.0000	0.0005	0.0254	1.5643	10.5081		4.8803	0.0017		27.3365
10/11/2009	JM-101109-3	0.0251	27.8876		0.0007		0.0025	1.9221	10.2854		3.5634			24.5942
10/12/2009	JM-101209-1	0.0152	28.5894	0.0016	0.0050		0.0262	2.0725	10.4805	0.0007	3.7144	0.0020		24.5481
10/13/2009	JM-101309-1	0.0168	30.5790		0.0010		0.0094	2.1156	11.0287		4.1107			26.8231
10/14/2009	JM-101409-13	0.0168	21.9259		0.0007		0.0123	1.8041	8.4967		1.9939			15.5506
10/15/2009	JM-101509-1	0.0147	17.3552		0.0001		0.0177	1.4464	6.9207		1.3471			12.2514
10/16/2009	JM-101609-1	0.0080	19.5723		0.0003			1.4341	7.8570	0.0230	1.7930			16.1446
10/17/2009	JM 101709-1	0.0260	24.8947				0.0054	1.5000	9.3008		2.1367			22.6765
10/18/2009	JM 101809-1	0.0322	28.7435		0.0027	0.0008	0.0117	1.6573	10.5943		2.8316		0.0148	27.2391
10/19/2009	JM 101909-1	0.0310	32.1474		0.0008		0.0083	1.8344	11.5575		3.5714		0.0158	31.6210
10/20/2009	JM 102009-1	0.0285	35.2751	0.0000	0.0019	0.0010	0.0044	2.0400	12.5231		4.3718		0.0078	35.7973
10/21/2009	JM 102109-1	0.0233	38.2811		0.0025	0.0013	0.0023	2.2296	13.2395		5.1907		0.0109	39.8242
10/22/2009	JM 102209-1	0.0251	41.4458		0.0031		0.0028	2.5304	14.2175		6.2485			44.2193
10/23/2009	JM 102309-1	0.0304	38.6917		0.0042	0.0004	0.0101	2.8810	12.9310		5.9530			41.2557
10/24/2009	JM 102409-1	0.0225	40.0041		0.0039	0.0004	0.0059	2.6512	13.8023		5.8963			41.6071
10/25/2009	JM 102509-1	0.0330	42.4130		0.0027	0.0003	0.0038	2.6214	14.4530		6.4295			45.1120
10/26/2009	JM 102609-1	0.0297	44.1056		0.0039	0.0019	0.0034	2.6976	14.8719		6.8296		0.0061	47.0127
10/27/2009	JM 102709-1	0.0291	45.3189		0.0018	0.0009	0.0093	2.8629	15.1547		7.2169		0.0005	48.9422
10/28/2009	JM 102809-1	0.0285	33.6590		0.0039	0.0012	0.0065	2.2034	12.1618		4.1363		0.0026	32.6076
11/8/2009	JM 110809-1	0.0272	42.8539		0.0039		0.0018	2.6890	14.3813		7.1313			48.2436
11/9/2009	JM 110909-1	0.0267	45.9941		0.0047	0.0006	0.0009	2.8372	15.2897		7.8972		0.0095	52.8477
11/10/2009	JM 111009-1	0.0330	45.8583		0.0033	0.0006	0.0016	2.9177	15.1647		7.9589		0.0029	52.7711
11/11/2009	JM 111109-1	0.0284	35.1147		0.0020		0.0025	2.2449	12.3106		4.8346		0.0155	36.5964
11/12/2009	JM 111209-1	0.0307	35.1488		0.0025		0.0027	2.1352	12.3738		5.0285		0.0091	37.5324
11/13/2009	JM 111309-1	0.0271	35.5717		0.0017		0.0024	2.1261	12.2508		5.3160		0.0050	38.9723
11/14/2009	JM 111409-1	0.0312	36.9978		0.0026		0.0018	2.2391	12.6681		5.7334		0.0055	41.3517
11/15/2009	JM-111509-1	0.0103	38.1836			0.0009		1.9977	12.9263		7.1161		0.0367	41.4639
11/16/2009	JM-111609-1	0.0074	39.7877			0.0010		2.0628	13.3330		7.5264		0.0415	43.7503
11/17/2009	JM-111709-1	0.0055	41.5521			0.0005		2.1883	13.8909		8.1193		0.0405	46.2338

Table 1: Indian Fork Chemical analysis

Anions: ICP-OES analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Cations: IC Analysis

Date	Sample #	Al mg/L	Ca mg/L	Co mg/L	Cr mg/L	Cu mg/L	Fe mg/L	K mg/L	Mg mg/L	Mn mg/L	Na mg/L	Ni mg/L	P mg/L	S mg/L
Field samples														
11/18/2009	JM-111809-1	0.0091	42.0577			0.0006		2.2342	14.0437		8.2695		0.0359	46.6404
11/19/2009	JM-111909-1	0.0091	44.4960			0.0003		2.3395	14.7401		8.8819		0.0374	49.8305
11/20/2009	JM-112009-1	0.0101	46.6563			0.0001		2.3751	15.3841		9.4618	0.0010	0.0420	53.1626
11/21/2009	JM-112109-1	0.0053	47.6037			0.0001		2.4350	15.7131		9.7907		0.0365	54.6777
11/22/2009	JM-112209-1	0.0058	48.3698					2.4784	15.8858		10.2029		0.0435	55.7539
11/23/2009	JM-112309-1	0.0067	49.1520			0.0005		2.5854	16.0612		10.4369		0.0406	56.9267
11/24/2009	JM-112409-1	0.0077	50.4177		0.0003	0.0002		2.6799	16.3468		10.8292		0.0376	58.6746
11/25/2009	JM-112509-1	0.0086	50.6922			0.0002		2.6938	16.4297		10.9379		0.0415	59.2228
11/26/2009	JM-112609-1	0.0047	51.7455			0.0003		2.6744	16.8247		11.4419		0.0419	61.2465
11/27/2009	JM-112709-1	0.0034	54.3684			0.0004		2.7548	17.5192	0.0182	12.2617		0.0447	65.1297
11/28/2009	JM-112809-1	0.0107	54.8828		0.0001	0.0003		2.8722	17.7949	0.0227	12.6194		0.0425	66.5309
11/29/2009	JM-112909-1	0.0157	40.5203			0.0005	0.0092	2.2988	14.0181		7.3233		0.0374	42.9607
11/30/2009	JM-113009-1	0.0264	40.0535			0.0009		2.0302	13.8577		6.8057		0.0405	42.9496
12/1/2009	JM-120109-1	0.0243	28.1650			0.0000	0.0312	1.5234	10.5024		4.0111		0.0377	24.9254
12/2/2009	JM-120209-1	0.0176	24.1179			0.0003	0.0062	1.2139	9.2097		3.0637		0.0383	22.2068
12/3/2009	JM-120309-1	0.0185	25.7054			0.0001	0.0722	1.2240	9.6735		3.4573		0.0376	24.9575
12/4/2009	JM-120409-1	0.0134	27.7752				0.0045	1.2985	10.1984	0.0008	3.9543		0.0353	27.7360
12/5/2009	JM-120509-1	0.0501	31.0575			0.0009	0.0026	1.4057	11.2123	0.0129	4.7116		0.0424	32.2290
12/6/2009	JM-120609-1	0.0218	33.7519			0.0001	0.0000	1.5526	11.9300	0.0035	5.4078		0.0398	35.5115
12/7/2009	JM-120709-1	0.0190	33.8619			0.0005	0.0063	1.6018	11.7643		5.5790		0.0439	35.7409
12/8/2009	JM-120809-1	0.0225	14.3707				0.0180	0.9247	5.6213		1.0709		0.0405	12.3668
Quality control samples														
11/15/2009	JM-111509-1Q	0.0106	38.6333					2.0224	12.9546	0.0166	7.2169		0.0410	42.3294
11/15/2009	JM 111509-2Q	0.0277	38.9492		0.0025	0.0004		2.3722	13.2264		6.1889		0.0049	43.9182
11/15/2009	JM-111509-1	0.0103	38.1836			0.0009		1.9977	12.9263		7.1161		0.0367	41.4639

Table 1: Indian Fork Chemical analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Anions: ICP-OES analysis
Cations: IC Analysis

negative values & uv - under detection limit
CCV - continuing calibration verification (standard at 0.5 mg/L)
CCB - continuing calibration blank (1% nitric solution)
n.a. - no detection

Date	Sample #	Sr mg/L	V mg/L	Zn mg/L	Fluoride mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L	Bromide mg/L	Notes
Field samples												
5/15/2009	JM-051509-2				0.0654	0.9081	1.2706			142.9441		
8/11/2009	JM-081109-1	0.1243	0.0005		0.366	0.902	0.040	1.680		163.175	0.0116	* (1)
8/12/2009	JM-081209-1	0.1274	0.0009	0.0011	0.962	0.886	0.088	1.463		156.718		* (2)
8/13/2009	JM-081309-1	0.1374	0.0005	0.0033	0.078	9.711	1.598	1.796		184.014	0.0171	
8/14/2009	JM-081409-1	0.1473	0.0014	0.0018	0.030	8.804		1.968		202.215	0.0178	
8/25/2009	JM-082509-15	0.1403	0.0009	0.0251	0.598	1.050		1.908	0.195	193.955	0.0234	
8/26/2009	JM-082609-1	0.1495	0.0005		0.507	1.061		2.130		214.232	0.0121	
8/27/2009	JM-082709-1	0.1583	0.0001	0.0000	0.454	1.045		2.294		233.194	0.0198	
9/4/2009	JM-090409-1	0.1956	0.0104	0.0009	0.423	1.093		2.752		283.802		
9/5/2009	JM-090509-1	0.1989	0.0058	0.0007	0.273	1.089		2.905		295.617		
9/6/2009	JM-090609-1	0.2018	0.0048	0.0011	0.243	1.095		2.815		300.858		
9/7/2009	JM-090709-1	0.1854	0.0035	0.0005	0.173	1.049		2.676		268.862		
9/8/2009	JM-090809-1	0.1785	0.0042	0.0003	0.191	1.072		2.318		258.915		
9/9/2009	JM-090909-1	0.1999	0.0040	0.0003	0.257	1.128		2.783		301.092		
9/10/2009	JM-091009-1	0.1883	0.0039	0.0001	0.240	1.104		2.584		281.384		* (3)
9/11/2009	JM-091109-2	0.2157	0.0062	0.0006	0.580	1.167		2.900		320.840		
9/12/2009	JM-091209-1	0.2258	0.0056	0.0010	0.522	1.208		3.051		330.655	0.0293	
9/13/2009	JM-091309-1	0.2241	0.0059	0.0015	0.477	1.272		3.158		341.137		
9/14/2009	JM-091409-1	0.2299	0.0068	0.0009	0.486	1.246		3.874		352.747		
9/15/2009	JM-091509-1	0.2368	0.0066	0.0011	0.367	1.263		5.609		357.658		
9/16/2009	JM-091609-1	0.1762	0.0056	0.0004	0.159	1.025		4.034		248.965		
9/17/2009	JM-091709-1	0.1664	0.0053	0.0006	0.242	1.047		2.276		216.518		
9/18/2009	JM-091809-1	0.1684	0.0053	0.0006	0.249	1.058		1.665		216.075		
9/19/2009	JM-091909-1	0.1073	0.0039	0.0004	0.085	0.784		0.793		108.929		
9/20/2009	JM-092009-1	0.0595	0.0039	0.0003	0.058	0.553		0.437		45.741		
9/21/2009	JM-092109-1	0.0480	0.0034	0.0006	0.117	0.514		0.304		37.281		
9/22/2009	JM-092209-1	0.0550	0.0029	0.0004	0.081	0.644		0.369		45.732		
9/24/2009	JM-092409-1	0.0782	0.0037	0.0011	0.017	0.688		0.695		77.989		* (4)
9/25/2009	JM-092509-1	0.0915	0.0038	0.0007	0.057	0.714		4.134		98.514		
9/26/2009	JM-092609-1	0.0494	0.0029	0.0002	0.077	0.597		0.126		120.989		
9/27/2009	JM-092709-1	0.0426	0.0033	0.0005	0.059	0.548		0.223		36.797		
9/28/2009	JM-092809-1	0.0541	0.0031	0.0005	0.088	0.556		3.770		52.675		
9/29/2009	JM-092909-1	0.0723	0.0041	0.0008	0.004	0.608		4.241		70.906		
9/30/2009	JM-093009-1	0.0862	0.0046	0.0017	0.008	0.655		2.733		89.439		

Table 1: Indian Fork Chemical analysis

Anions: ICP-OES analysis
Cations: IC Analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Date	Sample #	Sr mg/L	V mg/L	Zn mg/L	Fluoride mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L	Bromide mg/L	Notes
Field samples												
10/1/2009	JM-100109-1	0.0994	0.0047	0.0009	0.010	0.672		5.980		104.234		
10/2/2009	JM-100209-1	0.1079	0.0042	0.0008	0.019	0.764		3.118		119.757		* (5)
10/3/2009	JM-100309-1	0.1173	0.0052	0.0006	0.022	0.804		6.199		132.822		
10/4/2009	JM-100409-1	0.1308	0.0057	0.0015	0.037	0.879		6.023		150.680		
10/5/2009	JM-100509-1	0.1225	0.0051	0.0009	0.026	0.818		7.427		138.150		
10/6/2009	JM-100609-1	0.1326	0.0051	0.0009	0.037	0.856		5.017		150.261		
10/7/2009	JM-100709-1	0.1230	0.0049	0.0009	0.042	0.846		4.522		131.884		
10/8/2009	JM-100809-1	0.1288	0.0057	0.0012	0.028	0.850		15.623		145.036		* (6)
10/9/2009	JM-100909-1	0.1299	0.0050	0.0008	0.047	0.868		3.013		146.183		
10/10/2009	JM-101009-1	0.0655	0.0042	0.0010		0.626		7.186		57.655		
10/11/2009	JM-101109-3	0.0614	0.0017	0.0004		0.730		0.471		73.213		
10/12/2009	JM-101209-1	0.0650	0.0029	0.0003	0.010	0.756		10.780		74.819		
10/13/2009	JM-101309-1	0.0680	0.0026	0.0001	0.009	0.798		4.981		83.534		
10/14/2009	JM-101409-13	0.0443	0.0018	0.0007		0.691		12.946		52.276		
10/15/2009	JM-101509-1	0.0346	0.0012	0.0002		0.686		2.573		40.285		
10/16/2009	JM-101609-1	0.0394	0.0014	0.0001		0.766		11.406		54.979		
10/17/2009	JM 101709-1	0.0576				0.577		2.715		56.740		
10/18/2009	JM 101809-1	0.0669	0.0006		0.005	0.627		3.954		70.149		
10/19/2009	JM 101909-1	0.0764			0.012	0.654		2.277		83.087		
10/20/2009	JM 102009-1	0.0867			0.023	0.730		7.696		94.838		
10/21/2009	JM 102109-1	0.0958	0.0008		0.029	0.759		2.816		108.081		
10/22/2009	JM 102209-1	0.1058	0.0009		0.035	0.776		5.566		119.444		
10/23/2009	JM 102309-1	0.0994	0.0006		0.037	0.873		4.446		111.668		
10/24/2009	JM 102409-1	0.1016	0.0005		0.041	0.839		9.070		111.332		
10/25/2009	JM 102509-1	0.1078	0.0003		0.043	0.844		8.373		122.658		
10/26/2009	JM 102609-1	0.1113	0.0008		0.051	0.830		4.390		131.277		
10/27/2009	JM 102709-1	0.1175	0.0012		0.049	0.857		12.049		135.965		
10/28/2009	JM 102809-1	0.0811	0.0011		0.023	0.797		3.704		85.950		
11/8/2009	JM 110809-1	0.1094	0.0017		0.046	0.848		1.041		133.043		
11/9/2009	JM 110909-1	0.1197	0.0011		0.063	0.850		1.128		146.504		
11/10/2009	JM 111009-1	0.1203	0.0009		0.070	0.887		1.186		146.551		
11/11/2009	JM 111109-1	0.0876	0.0009		0.017	0.831		0.529		97.743		
11/12/2009	JM 111209-1	0.0897			0.019	0.805		0.666		100.172		
11/13/2009	JM 111309-1	0.0908	0.0002		0.012	0.771		0.788		105.309		
11/14/2009	JM 111409-1	0.0948	0.0000		0.023	0.879		0.816		110.988		
11/15/2009	JM-111509-1	0.0941	0.0021		0.033	0.856		1.096		117.805		* (7)
11/16/2009	JM-111609-1	0.0980	0.0023		0.037	0.861		1.275		125.503		
11/17/2009	JM-111709-1	0.1040	0.0027		0.045	0.876		4.239		132.449		

Table 1: Indian Fork Chemical analysis

Anions: ICP-OES analysis
Cations: IC Analysis

Analysis preformed in the Civil and Environmental Engineering Lab

Date	Sample #	Sr mg/L	V mg/L	Zn mg/L	Fluoride mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L	Bromide mg/L	Notes
Field samples												
11/18/2009	JM-111809-1	0.1044	0.0021		0.044	0.894		3.747		134.915		
11/19/2009	JM-111909-1	0.1110	0.0023		0.054	0.904		3.442		145.170		
11/20/2009	JM-112009-1	0.1159	0.0025		0.057	0.924		1.571		154.729		
11/21/2009	JM-112109-1	0.1192	0.0024		0.060	0.927		5.459		160.957		
11/22/2009	JM-112209-1	0.1199	0.0024		0.070	0.939		1.483		165.484		
11/23/2009	JM-112309-1	0.1242	0.0029		0.081	0.956		1.466		168.882		
11/24/2009	JM-112409-1	0.1269	0.0027		0.081	0.946		1.614		173.738		
11/25/2009	JM-112509-1	0.1277	0.0028		0.098	0.975		1.586		177.533		
11/26/2009	JM-112609-1	0.1293	0.0025		0.062	0.981		1.651		184.584		
11/27/2009	JM-112709-1	0.1358	0.0035		0.052	1.000		1.707		197.930		
11/28/2009	JM-112809-1	0.1390	0.0035	0.0007	0.056	0.998		27.714		202.327		
11/29/2009	JM-112909-1	0.0992	0.0024		0.047	0.952		9.602		123.501		
11/30/2009	JM-113009-1	0.0968	0.0020		0.037	0.909		1.945		123.456		
12/1/2009	JM-120109-1	0.0648	0.0010		0.010	0.807		0.621		69.176		
12/2/2009	JM-120209-1	0.0548	0.0011			0.758		0.668		60.692		
12/3/2009	JM-120309-1	0.0595	0.0012	0.0000		0.756		1.410		69.040		
12/4/2009	JM-120409-1	0.0641	0.0013			0.738		3.520		78.545		
12/5/2009	JM-120509-1	0.0739	0.0013		0.007	0.776		0.758		92.182		
12/6/2009	JM-120609-1	0.0808	0.0014		0.012	0.790		4.325		103.077		
12/7/2009	JM-120709-1	0.0814	0.0019		0.016	0.808		3.256		103.977		
12/8/2009	JM-120809-1	0.0310	0.0007			0.592		0.662		31.183		
Quality control samples												
11/15/2009	JM-111509-1Q	0.0951	0.0019		0.023	0.825		1.014		118.796		* (8)
11/15/2009	JM 111509-2Q	0.1005			0.030	0.855		0.879		120.279		* (9)
11/15/2009	JM-111509-1	0.0941	0.0021		0.033	0.856		1.096		117.805		* (10)

Notes

(1) also labeled JM-081209-1 on analysis sheet, assume JM-081109-1 due to systematic increase in concentration during dry period
(2) see above, 2 samples labeled JM-081209-1 on analysis sheet
(3) anions mislabeled as JM-091109-1
(4) was labeled JM-092409-1 on analysis results
(5) anions mislabeled as JM-0100209
(6) cations=mislabeled as JM-100809-2
(7) analyzed dec 22
(8) analyzed dec 22
(9) mislabeled on analysis as JM-111509-1 (analyzed on dec 2)
(10) analyzed dec 22

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/12/2009 20:30	0.215	0.215	0.097						
8/12/2009 20:45	0.2159	0.2159	0.098						
8/12/2009 21:00	0.2151	0.2151	0.097						
8/12/2009 21:15	0.2144	0.2144	0.096						
8/12/2009 21:30	0.2135	0.2135	0.095						
8/12/2009 21:45	0.2149	0.2149	0.096						
8/12/2009 22:00	0.2139	0.2139	0.095						
8/12/2009 22:15	0.2147	0.2147	0.096						
8/12/2009 22:30	0.2144	0.2144	0.096						
8/12/2009 22:45	0.2144	0.2144	0.096						
8/12/2009 23:00	0.2134	0.2134	0.095						
8/12/2009 23:15	0.2134	0.2134	0.095						
8/12/2009 23:30	0.2126	0.2126	0.094						
8/12/2009 23:45	0.2133	0.2133	0.095						
8/13/2009 0:00	0.2128	0.2128	0.094						
8/13/2009 0:15	0.2128	0.2128	0.094						
8/13/2009 0:30	0.2146	0.2146	0.096						
8/13/2009 0:45	0.2129	0.2129	0.094						
8/13/2009 1:00	0.2134	0.2134	0.095						
8/13/2009 1:15	0.2133	0.2133	0.095						
8/13/2009 1:30	0.2124	0.2124	0.094						
8/13/2009 1:45	0.2134	0.2134	0.095						
8/13/2009 2:00	0.2129	0.2129	0.094						
8/13/2009 2:15	0.2132	0.2132	0.095						
8/13/2009 2:30	0.2132	0.2132	0.095						
8/13/2009 2:45	0.2129	0.2129	0.094						
8/13/2009 3:00	0.2128	0.2128	0.094						
8/13/2009 3:15	0.2129	0.2129	0.094						
8/13/2009 3:30	0.2125	0.2125	0.094						
8/13/2009 3:45	0.2131	0.2131	0.094						
8/13/2009 4:00	0.2134	0.2134	0.095						
8/13/2009 4:15	0.2132	0.2132	0.095						
8/13/2009 4:30	0.2137	0.2137	0.095						
8/13/2009 4:45	0.2117	0.2117	0.093						
8/13/2009 5:00	0.2127	0.2127	0.094						
8/13/2009 5:15	0.2132	0.2132	0.095						
8/13/2009 5:30	0.2124	0.2124	0.094						
8/13/2009 5:45	0.2132	0.2132	0.095						
8/13/2009 6:00	0.2125	0.2125	0.094						
8/13/2009 6:15	0.2134	0.2134	0.095						
8/13/2009 6:30	0.2124	0.2124	0.094						
8/13/2009 6:45	0.2128	0.2128	0.094						
8/13/2009 7:00	0.2129	0.2129	0.094						
8/13/2009 7:15	0.2126	0.2126	0.094						
8/13/2009 7:30	0.2125	0.2125	0.094						
8/13/2009 7:45	0.2131	0.2131	0.094						
8/13/2009 8:00	0.2121	0.2121	0.093						
8/13/2009 8:15	0.2124	0.2124	0.094						
8/13/2009 8:30	0.2134	0.2134	0.095						
8/13/2009 8:45	0.2117	0.2117	0.093						
8/13/2009 9:00	0.2129	0.2129	0.094						
8/13/2009 9:15	0.2123	0.2123	0.094						

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/13/2009 9:30	0.2135	0.2135	0.095						
8/13/2009 9:45	0.2133	0.2133	0.095						
8/13/2009 10:00	0.2124	0.2124	0.094						
8/13/2009 10:15	0.2124	0.2124	0.094						
8/13/2009 10:30	0.2125	0.2125	0.094						
8/13/2009 10:45	0.2121	0.2121	0.093						
8/13/2009 11:00	0.2119	0.2119	0.093						
8/13/2009 11:15	0.2139	0.2139	0.095						
8/13/2009 11:30	0.212	0.212	0.093						
8/13/2009 11:45	0.2128	0.2128	0.094	21.5	490	7.8	8.4		11:45
8/13/2009 12:00	0.2124	0.2124	0.094	21.6	490	7.8	8.4		
8/13/2009 12:15	0.214	0.214	0.095	21.8	490	7.8	8.4		
8/13/2009 12:30	0.2135	0.2135	0.095	21.9	494	7.8	8.4		
8/13/2009 12:45	0.2121	0.2121	0.093	22	492	7.7	8.4		
8/13/2009 13:00	0.2135	0.2135	0.095	22.1	492	7.7	8.4		
8/13/2009 13:15	0.2139	0.2139	0.095	22.2	496	7.7	8.4		
8/13/2009 13:30	0.2133	0.2133	0.095	22.2	492	7.7	8.4		
8/13/2009 13:45	0.2126	0.2126	0.094	22.2	492	7.7	8.4		
8/13/2009 14:00	0.2133	0.2133	0.095	22.2	492	7.7	8.4		
8/13/2009 14:15	0.2133	0.2133	0.095	22.2	492	7.6	8.4		
8/13/2009 14:30	0.2126	0.2126	0.094	22.2	494	7.6	8.4		
8/13/2009 14:45	0.2134	0.2134	0.095	22.1	494	7.6	8.4		
8/13/2009 15:00	0.2133	0.2133	0.095	22.1	494	7.6	8.4		
8/13/2009 15:15	0.2124	0.2124	0.094	21.9	494	7.6	8.4		
8/13/2009 15:30	0.2122	0.2122	0.094	21.8	494	7.6	8.4		
8/13/2009 15:45	0.2129	0.2129	0.094	21.8	494	7.6	8.4		
8/13/2009 16:00	0.2123	0.2123	0.094	21.8	494	7.6	8.4		
8/13/2009 16:15	0.2121	0.2121	0.093	21.8	496	7.6	8.4		
8/13/2009 16:30	0.2119	0.2119	0.093	21.7	496	7.7	8.4		
8/13/2009 16:45	0.2116	0.2116	0.093	21.6	496	7.6	8.3		
8/13/2009 17:00	0.2109	0.2109	0.092	21.5	496	7.6	8.3		
8/13/2009 17:15	0.2106	0.2106	0.092	21.5	496	7.6	8.3		
8/13/2009 17:30	0.2103	0.2103	0.091	21.4	496	7.6	8.3		
8/13/2009 17:45	0.2118	0.2118	0.093	21.3	498	7.6	8.3		
8/13/2009 18:00	0.2114	0.2114	0.093	21.2	498	7.6	8.3		
8/13/2009 18:15	0.2106	0.2106	0.092	21.2	498	7.6	8.3		
8/13/2009 18:30	0.2106	0.2106	0.092	21.1	500	7.6	8.3		
8/13/2009 18:45	0.2101	0.2101	0.091	21.1	500	7.6	8.3		
8/13/2009 19:00	0.2121	0.2121	0.093	21	500	7.6	8.2		
8/13/2009 19:15	0.2125	0.2125	0.094	20.9	502	7.6	8.2		
8/13/2009 19:30	0.2121	0.2121	0.093	20.9	502	7.6	8.2		
8/13/2009 19:45	0.2118	0.2118	0.093	20.8	502	7.6	8.2		
8/13/2009 20:00	0.2113	0.2113	0.093	20.8	504	7.7	8.2		
8/13/2009 20:15	0.2114	0.2114	0.093	20.7	504	7.7	8.2		
8/13/2009 20:30	0.2126	0.2126	0.094	20.6	504	7.7	8.2		
8/13/2009 20:45	0.2116	0.2116	0.093	20.5	506	7.7	8.2		
8/13/2009 21:00	0.2117	0.2117	0.093	20.5	506	7.7	8.2		
8/13/2009 21:15	0.2105	0.2105	0.092	20.4	506	7.7	8.2		
8/13/2009 21:30	0.2116	0.2116	0.093	20.3	508	7.7	8.2		
8/13/2009 21:45	0.211	0.211	0.092	20.3	508	7.7	8.2		
8/13/2009 22:00	0.2116	0.2116	0.093	20.2	508	7.8	8.2		
8/13/2009 22:15	0.2136	0.2136	0.095	20.1	508	7.8	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/13/2009 22:30	0.2115	0.2115	0.093	20.1	508	7.8	8.2		
8/13/2009 22:45	0.2108	0.2108	0.092	20	510	7.8	8.2		
8/13/2009 23:00	0.2106	0.2106	0.092	20	510	7.8	8.2		
8/13/2009 23:15	0.2106	0.2106	0.092	19.9	510	7.8	8.2		
8/13/2009 23:30	0.2111	0.2111	0.092	19.9	512	7.8	8.2		
8/13/2009 23:45	0.2111	0.2111	0.092	19.8	512	7.8	8.2		
8/14/2009 0:00	0.2112	0.2112	0.092	19.8	512	7.8	8.2		
8/14/2009 0:15	0.211	0.211	0.092	19.8	512	7.9	8.2		
8/14/2009 0:30	0.2109	0.2109	0.092	19.7	512	7.9	8.2		
8/14/2009 0:45	0.2102	0.2102	0.091	19.7	514	7.9	8.2		
8/14/2009 1:00	0.2102	0.2102	0.091	19.6	514	7.9	8.2		
8/14/2009 1:15	0.2104	0.2104	0.092	19.6	514	7.9	8.2		
8/14/2009 1:30	0.2111	0.2111	0.092	19.6	514	7.9	8.2		
8/14/2009 1:45	0.211	0.211	0.092	19.5	514	7.9	8.2		
8/14/2009 2:00	0.2106	0.2106	0.092	19.5	514	7.9	8.2		
8/14/2009 2:15	0.2107	0.2107	0.092	19.4	516	7.9	8.2		
8/14/2009 2:30	0.2109	0.2109	0.092	19.4	516	7.9	8.2		
8/14/2009 2:45	0.2109	0.2109	0.092	19.4	516	7.9	8.2		
8/14/2009 3:00	0.2112	0.2112	0.092	19.3	516	7.9	8.2		
8/14/2009 3:15	0.2106	0.2106	0.092	19.3	516	7.9	8.2		
8/14/2009 3:30	0.2112	0.2112	0.092	19.3	516	8	8.2		
8/14/2009 3:45	0.2115	0.2115	0.093	19.2	516	8	8.2		
8/14/2009 4:00	0.2109	0.2109	0.092	19.2	516	8	8.2		
8/14/2009 4:15	0.2104	0.2104	0.092	19.2	516	8	8.2		
8/14/2009 4:30	0.2102	0.2102	0.091	19.1	518	8	8.2		
8/14/2009 4:45	0.2109	0.2109	0.092	19.1	516	8	8.2		
8/14/2009 5:00	0.211	0.211	0.092	19.1	518	8	8.2		
8/14/2009 5:15	0.2113	0.2113	0.093	19	518	8	8.2		
8/14/2009 5:30	0.2112	0.2112	0.092	19	518	8	8.2		
8/14/2009 5:45	0.2111	0.2111	0.092	19	518	8	8.2		
8/14/2009 6:00	0.2111	0.2111	0.092	19	518	8	8.2		
8/14/2009 6:15	0.2102	0.2102	0.091	18.9	518	8	8.2		
8/14/2009 6:30	0.2111	0.2111	0.092	18.9	518	8	8.2		
8/14/2009 6:45	0.2123	0.2123	0.094	18.9	518	8.1	8.2		
8/14/2009 7:00	0.2113	0.2113	0.093	18.9	518	8.1	8.2		
8/14/2009 7:15	0.2112	0.2112	0.092	18.8	518	8.1	8.2		
8/14/2009 7:30	0.2115	0.2115	0.093	18.8	518	8.1	8.2		
8/14/2009 7:45	0.2109	0.2109	0.092	18.8	518	8.1	8.2		
8/14/2009 8:00	0.2112	0.2112	0.092	18.8	518	8.2	8.2		
8/14/2009 8:15	0.2106	0.2106	0.092	18.9	518	8.2	8.2		
8/14/2009 8:30	0.2119	0.2119	0.093	18.9	518	8.2	8.3		
8/14/2009 8:45	0.211	0.211	0.092	19	518	8.2	8.3		
8/14/2009 9:00	0.2116	0.2116	0.093	19	518	8.2	8.3		
8/14/2009 9:15	0.2114	0.2114	0.093	19.2	520	8.2	8.3		
8/14/2009 9:30	0.2119	0.2119	0.093	19.3	520	8.2	8.3		
8/14/2009 9:45	0.2102	0.2102	0.091	19.4	520	8.2	8.3		
8/14/2009 10:00	0.2111	0.2111	0.092	19.6	520	8.2	8.3		
8/14/2009 10:15	0.2116	0.2116	0.093	19.9	520	8.2	8.3		
8/14/2009 10:30	0.2111	0.2111	0.092	20.1	520	8.2	8.3		
8/14/2009 10:45	0.2106	0.2106	0.092	20.4	520	8.2	8.4		
8/14/2009 11:00	0.2114	0.2114	0.093	20.7	522	8.1	8.4		
8/14/2009 11:15	0.2114	0.2114	0.093	21	522	8.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/14/2009 11:30	0.2109	0.2109	0.092	21.3	522	8.1	8.4		
8/14/2009 11:45	0.2116	0.2116	0.093	21.5	522	8.1	8.4		11:45
8/14/2009 12:00	0.2109	0.2109	0.092	21.8	522	8	8.4		
8/14/2009 12:15	0.2113	0.2113	0.093	22	522	8	8.4		
8/14/2009 12:30	0.2113	0.2113	0.093	22.1	522	8	8.4		
8/14/2009 12:45	0.2111	0.2111	0.092	22.2	522	7.9	8.4		
8/14/2009 13:00	0.2104	0.2104	0.092	22.2	522	7.9	8.4		
8/14/2009 13:15	0.2114	0.2114	0.093	22.1	522	7.8	8.4		
8/14/2009 13:30	0.2106	0.2106	0.092	22	524	7.8	8.4		
8/14/2009 13:45	0.2105	0.2105	0.092	21.8	524	7.8	8.4		
8/14/2009 14:00	0.2099	0.2099	0.091	21.7	524	7.8	8.4		
8/14/2009 14:15	0.2097	0.2097	0.091	21.6	526	7.8	8.4		
8/14/2009 14:30	0.2101	0.2101	0.091	21.6	524	7.8	8.4		
8/14/2009 14:45	0.2095	0.2095	0.091	21.5	526	7.8	8.3		
8/14/2009 15:00	0.2089	0.2089	0.090	21.4	526	7.8	8.3		
8/14/2009 15:15	0.2089	0.2089	0.090	21.4	526	7.8	8.3		
8/14/2009 15:30	0.2084	0.2084	0.089	21.4	526	7.9	8.3		
8/14/2009 15:45	0.2084	0.2084	0.089	21.4	526	7.9	8.3		
8/14/2009 16:00	0.2077	0.2077	0.089	21.4	526	7.9	8.3		
8/14/2009 16:15	0.2077	0.2077	0.089	21.4	526	7.9	8.3		
8/14/2009 16:30	0.2081	0.2081	0.089	21.3	528	7.9	8.3		
8/14/2009 16:45	0.2074	0.2074	0.088	21.3	528	7.8	8.3		
8/14/2009 17:00	0.207	0.207	0.088	21.3	528	7.8	8.3		
8/14/2009 17:15	0.2066	0.2066	0.088	21.2	528	7.8	8.3		
8/14/2009 17:30	0.2061	0.2061	0.087	21.1	528	7.7	8.3		
8/14/2009 17:45	0.2064	0.2064	0.087	21.1	528	7.7	8.3		
8/14/2009 18:00	0.2057	0.2057	0.087	21	530	7.7	8.3		
8/14/2009 18:15	0.206	0.206	0.087	21	530	7.7	8.3		
8/14/2009 18:30	0.2066	0.2066	0.088	21	530	7.7	8.3		
8/14/2009 18:45	0.2066	0.2066	0.088	20.9	530	7.7	8.2		
8/14/2009 19:00	0.2066	0.2066	0.088	20.9	532	7.7	8.3		
8/14/2009 19:15	0.205	0.205	0.086	20.8	532	7.7	8.2		
8/14/2009 19:30	0.2058	0.2058	0.087	20.8	532	7.7	8.2		
8/14/2009 19:45	0.2049	0.2049	0.086	20.7	532	7.7	8.2		
8/14/2009 20:00	0.2044	0.2044	0.085	20.6	534	7.7	8.2		
8/14/2009 20:15	0.2059	0.2059	0.087	20.6	534	7.7	8.2		
8/14/2009 20:30	0.2036	0.2036	0.085	20.5	534	7.7	8.2		
8/14/2009 20:45	0.2037	0.2037	0.085	20.4	534	7.8	8.2		
8/14/2009 21:00	0.2044	0.2044	0.085	20.4	536	7.8	8.2		
8/14/2009 21:15	0.2037	0.2037	0.085	20.3	536	7.8	8.2		
8/14/2009 21:30	0.2036	0.2036	0.085	20.2	536	7.8	8.2		
8/14/2009 21:45	0.2046	0.2046	0.086	20.2	538	7.8	8.2		
8/14/2009 22:00	0.2033	0.2033	0.084	20.1	536	7.8	8.2		
8/14/2009 22:15	0.203	0.203	0.084	20.1	538	7.8	8.2		
8/14/2009 22:30	0.2044	0.2044	0.085	20	538	7.8	8.2		
8/14/2009 22:45	0.2016	0.2016	0.083	20	538	7.8	8.2		
8/14/2009 23:00	0.2034	0.2034	0.084	19.9	538	7.9	8.2		
8/14/2009 23:15	0.2035	0.2035	0.085	19.8	540	7.9	8.2		
8/14/2009 23:30	0.2036	0.2036	0.085	19.8	540	7.9	8.2		
8/14/2009 23:45	0.2035	0.2035	0.085	19.7	540	7.9	8.2		
8/15/2009 0:00	0.2036	0.2036	0.085	19.7	540	7.9	8.2		
8/15/2009 0:15	0.2031	0.2031	0.084	19.6	542	7.9	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/15/2009 0:30	0.2035	0.2035	0.085	19.6	542	7.9	8.2		
8/15/2009 0:45	0.2034	0.2034	0.084	19.6	544	7.9	8.2		
8/15/2009 1:00	0.204	0.204	0.085	19.5	544	7.9	8.2		
8/15/2009 1:15	0.2032	0.2032	0.084	19.5	544	7.9	8.2		
8/15/2009 1:30	0.2043	0.2043	0.085	19.5	544	7.9	8.2		
8/15/2009 1:45	0.2044	0.2044	0.085	19.4	544	7.9	8.2		
8/15/2009 2:00	0.2033	0.2033	0.084	19.4	544	8	8.2		
8/15/2009 2:15	0.2034	0.2034	0.084	19.4	544	8	8.2		
8/15/2009 2:30	0.2031	0.2031	0.084	19.4	544	8	8.2		
8/15/2009 2:45	0.2052	0.2052	0.086	19.4	544	8	8.2		
8/15/2009 3:00	0.2065	0.2065	0.088	19.3	544	8	8.2		
8/15/2009 3:15	0.206	0.206	0.087	19.3	546	8	8.2		
8/25/2009 11:30	0.2399	0.2399	0.129	19.7	514	8.2	8.3		
8/25/2009 11:45	0.231	0.231	0.116	20.2	484	8.3	8.3		
8/25/2009 12:00	0.2296	0.2296	0.114	20.3	484	8.3	8.3		
8/25/2009 12:15	0.1967	0.1967	0.078	20.5	494	8.3	8.3		
8/25/2009 12:30	0.1914	0.1914	0.073	20.5	494	8.3	8.4		
8/25/2009 12:45	0.1918	0.1918	0.074	20.6	494	8.2	8.4		
8/25/2009 13:00	0.1903	0.1903	0.072	20.6	494	8.2	8.4		12:49
8/25/2009 13:15	0.1857	0.1857	0.069	20.7	496	8.2	8.4		
8/25/2009 13:30	0.1854	0.1854	0.068	20.7	496	8.2	8.4		
8/25/2009 13:45	0.1839	0.1839	0.067	20.7	496	8.2	8.4		
8/25/2009 14:00	0.1844	0.1844	0.068	20.7	498	8.2	8.4		
8/25/2009 14:15	0.1842	0.1842	0.068	20.7	498	8.1	8.4		
8/25/2009 14:30	0.1821	0.1821	0.066	20.7	498	8.1	8.4		
8/25/2009 14:45	0.1824	0.1824	0.066	20.7	498	8.1	8.4		
8/25/2009 15:00	0.1823	0.1823	0.066	20.7	500	8.1	8.4		
8/25/2009 15:15	0.1835	0.1835	0.067	20.8	500	8	8.4		
8/25/2009 15:30	0.1841	0.1841	0.067	20.8	500	8	8.4		
8/25/2009 15:45	0.184	0.184	0.067	20.8	498	8	8.4		
8/25/2009 16:00	0.1831	0.1831	0.067	20.8	498	8	8.4		
8/25/2009 16:15	0.1841	0.1841	0.067	20.8	498	8.1	8.4		
8/25/2009 16:30	0.1844	0.1844	0.068	20.8	498	8.1	8.4		
8/25/2009 16:45	0.1844	0.1844	0.068	20.8	498	8	8.4		
8/25/2009 17:00	0.1834	0.1834	0.067	20.7	500	8	8.4		
8/25/2009 17:15	0.1842	0.1842	0.068	20.7	500	8	8.4		
8/25/2009 17:30	0.1851	0.1851	0.068	20.6	500	8	8.4		
8/25/2009 17:45	0.1847	0.1847	0.068	20.6	502	8	8.3		
8/25/2009 18:00	0.1841	0.1841	0.067	20.5	502	8	8.3		
8/25/2009 18:15	0.1847	0.1847	0.068	20.4	504	8	8.3		
8/25/2009 18:30	0.1834	0.1834	0.067	20.4	504	8	8.3		
8/25/2009 18:45	0.1841	0.1841	0.067	20.3	504	8	8.3		
8/25/2009 19:00	0.1847	0.1847	0.068	20.2	506	8	8.3		
8/25/2009 19:15	0.1852	0.1852	0.068	20.1	506	8	8.3		
8/25/2009 19:30	0.1848	0.1848	0.068	20	506	8	8.3		
8/25/2009 19:45	0.1846	0.1846	0.068	20	506	8	8.3		
8/25/2009 20:00	0.1861	0.1861	0.069	19.9	508	8.1	8.3		
8/25/2009 20:15	0.1841	0.1841	0.067	19.8	508	8.1	8.3		
8/25/2009 20:30	0.1849	0.1849	0.068	19.7	508	8.1	8.3		
8/25/2009 20:45	0.184	0.184	0.067	19.6	508	8.1	8.3		
8/25/2009 21:00	0.1831	0.1831	0.067	19.6	510	8.1	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/25/2009 21:15	0.1834	0.1834	0.067	19.5	510	8.1	8.3		
8/25/2009 21:30	0.1824	0.1824	0.066	19.4	510	8.1	8.3		
8/25/2009 21:45	0.1838	0.1838	0.067	19.3	510	8.1	8.3		
8/25/2009 22:00	0.1833	0.1833	0.067	19.2	512	8.2	8.3		
8/25/2009 22:15	0.1831	0.1831	0.067	19.2	512	8.2	8.3		
8/25/2009 22:30	0.1834	0.1834	0.067	19.1	512	8.2	8.3		
8/25/2009 22:45	0.1822	0.1822	0.066	19	514	8.2	8.3		
8/25/2009 23:00	0.182	0.182	0.066	19	514	8.2	8.3		
8/25/2009 23:15	0.1824	0.1824	0.066	18.9	514	8.2	8.3		
8/25/2009 23:30	0.1816	0.1816	0.066	18.8	514	8.3	8.3		
8/25/2009 23:45	0.1824	0.1824	0.066	18.8	516	8.3	8.3		
8/26/2009 0:00	0.1824	0.1824	0.066	18.7	516	8.3	8.3		
8/26/2009 0:15	0.1819	0.1819	0.066	18.6	516	8.3	8.3		
8/26/2009 0:30	0.1821	0.1821	0.066	18.6	518	8.3	8.3		
8/26/2009 0:45	0.1821	0.1821	0.066	18.5	518	8.3	8.3		
8/26/2009 1:00	0.1794	0.1794	0.064	18.5	518	8.3	8.3		
8/26/2009 1:15	0.182	0.182	0.066	18.4	518	8.3	8.3		
8/26/2009 1:30	0.1801	0.1801	0.064	18.4	520	8.4	8.3		
8/26/2009 1:45	0.1801	0.1801	0.064	18.4	520	8.4	8.3		
8/26/2009 2:00	0.1806	0.1806	0.065	18.3	520	8.4	8.3		
8/26/2009 2:15	0.181	0.181	0.065	18.3	520	8.4	8.3		
8/26/2009 2:30	0.1819	0.1819	0.066	18.2	520	8.4	8.3		
8/26/2009 2:45	0.1814	0.1814	0.065	18.2	520	8.4	8.3		
8/26/2009 3:00	0.1799	0.1799	0.064	18.2	520	8.4	8.3		
8/26/2009 3:15	0.1801	0.1801	0.064	18.2	520	8.4	8.3		
8/26/2009 3:30	0.1807	0.1807	0.065	18.1	522	8.4	8.3		
8/26/2009 3:45	0.1808	0.1808	0.065	18.1	522	8.4	8.3		
8/26/2009 4:00	0.1802	0.1802	0.064	18.1	522	8.4	8.3		
8/26/2009 4:15	0.1808	0.1808	0.065	18	522	8.4	8.3		
8/26/2009 4:30	0.1803	0.1803	0.065	18	522	8.4	8.3		
8/26/2009 4:45	0.1811	0.1811	0.065	18	522	8.5	8.3		
8/26/2009 5:00	0.1801	0.1801	0.064	18	522	8.5	8.3		
8/26/2009 5:15	0.1808	0.1808	0.065	17.9	522	8.5	8.3		
8/26/2009 5:30	0.1811	0.1811	0.065	17.9	522	8.5	8.3		
8/26/2009 5:45	0.1806	0.1806	0.065	17.9	522	8.5	8.3		
8/26/2009 6:00	0.1823	0.1823	0.066	17.8	524	8.5	8.3		
8/26/2009 6:15	0.183	0.183	0.067	17.8	524	8.5	8.3		
8/26/2009 6:30	0.1829	0.1829	0.067	17.8	524	8.5	8.3		
8/26/2009 6:45	0.1821	0.1821	0.066	17.8	524	8.5	8.3		
8/26/2009 7:00	0.1833	0.1833	0.067	17.8	524	8.5	8.3		
8/26/2009 7:15	0.1837	0.1837	0.067	17.7	524	8.5	8.3		
8/26/2009 7:30	0.1838	0.1838	0.067	17.7	524	8.6	8.3		
8/26/2009 7:45	0.1824	0.1824	0.066	17.7	524	8.6	8.3		
8/26/2009 8:00	0.1824	0.1824	0.066	17.7	524	8.6	8.3		
8/26/2009 8:15	0.1819	0.1819	0.066	17.8	524	8.6	8.3		
8/26/2009 8:30	0.1824	0.1824	0.066	17.8	524	8.6	8.3		
8/26/2009 8:45	0.1805	0.1805	0.065	17.8	524	8.6	8.3		
8/26/2009 9:00	0.1819	0.1819	0.066	17.9	524	8.7	8.3		
8/26/2009 9:15	0.1826	0.1826	0.066	18.1	524	8.7	8.3		
8/26/2009 9:30	0.1826	0.1826	0.066	18.2	524	8.7	8.4		
8/26/2009 9:45	0.1818	0.1818	0.066	18.4	524	8.6	8.4		
8/26/2009 10:00	0.1826	0.1826	0.066	18.6	524	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/26/2009 10:15	0.1814	0.1814	0.065	18.9	526	8.6	8.4		
8/26/2009 10:30	0.1826	0.1826	0.066	19.1	526	8.6	8.4		
8/26/2009 10:45	0.1819	0.1819	0.066	19.4	526	8.5	8.4		
8/26/2009 11:00	0.183	0.183	0.067	19.7	526	8.5	8.4		
8/26/2009 11:15	0.1825	0.1825	0.066	20	526	8.5	8.4		
8/26/2009 11:30	0.1827	0.1827	0.066	20.2	526	8.4	8.4		
8/26/2009 11:45	0.1829	0.1829	0.067	20.4	526	8.4	8.4		
8/26/2009 12:00	0.1826	0.1826	0.066	20.6	526	8.4	8.4		
8/26/2009 12:15	0.1824	0.1824	0.066	20.7	526	8.4	8.4		
8/26/2009 12:30	0.1829	0.1829	0.067	20.8	528	8.3	8.4		
8/26/2009 12:45	0.1842	0.1842	0.068	20.8	528	8.3	8.4		12:50
8/26/2009 13:00	0.1838	0.1838	0.067	20.8	528	8.3	8.4		
8/26/2009 13:15	0.1844	0.1844	0.068	20.9	528	8.2	8.4		
8/26/2009 13:30	0.1821	0.1821	0.066	20.9	528	8.2	8.4		
8/26/2009 13:45	0.1826	0.1826	0.066	20.9	528	8.2	8.4		
8/26/2009 14:00	0.1838	0.1838	0.067	20.9	528	8.2	8.4		
8/26/2009 14:15	0.1823	0.1823	0.066	20.9	528	8.2	8.4		
8/26/2009 14:30	0.1809	0.1809	0.065	21	530	8.1	8.4		
8/26/2009 14:45	0.1828	0.1828	0.066	21	530	8.1	8.4		
8/26/2009 15:00	0.1808	0.1808	0.065	21	530	8.1	8.4		
8/26/2009 15:15	0.1789	0.1789	0.063	21	532	8	8.4		
8/26/2009 15:30	0.1802	0.1802	0.064	21	532	8	8.4		
8/26/2009 15:45	0.179	0.179	0.064	21	532	8	8.4		
8/26/2009 16:00	0.1794	0.1794	0.064	21	532	8	8.4		
8/26/2009 16:15	0.18	0.18	0.064	21	532	8	8.4		
8/26/2009 16:30	0.1805	0.1805	0.065	21	532	8	8.4		
8/26/2009 16:45	0.181	0.181	0.065	21	534	8	8.4		
8/26/2009 17:00	0.1794	0.1794	0.064	20.9	534	7.9	8.4		
8/26/2009 17:15	0.1792	0.1792	0.064	20.9	534	7.9	8.4		
8/26/2009 17:30	0.1796	0.1796	0.064	20.8	534	7.9	8.4		
8/26/2009 17:45	0.1807	0.1807	0.065	20.8	534	8	8.4		
8/26/2009 18:00	0.1784	0.1784	0.063	20.7	534	8	8.3		
8/26/2009 18:15	0.1801	0.1801	0.064	20.7	536	8	8.3		
8/26/2009 18:30	0.1764	0.1764	0.062	20.6	536	8	8.3		
8/26/2009 18:45	0.1707	0.1707	0.058	20.6	536	8	8.3		
8/26/2009 19:00	0.1789	0.1789	0.063	20.5	538	8	8.3		
8/26/2009 19:15	0.1782	0.1782	0.063	20.4	538	8	8.3		
8/26/2009 19:30	0.1789	0.1789	0.063	20.3	538	8	8.3		
8/26/2009 19:45	0.1793	0.1793	0.064	20.3	538	8	8.3		
8/26/2009 20:00	0.1774	0.1774	0.062	20.2	538	8	8.3		
8/26/2009 20:15	0.1802	0.1802	0.064	20.1	538	8	8.3		
8/26/2009 20:30	0.178	0.178	0.063	20	540	8.1	8.3		
8/26/2009 20:45	0.1799	0.1799	0.064	19.9	540	8.1	8.3		
8/26/2009 21:00	0.1781	0.1781	0.063	19.8	540	8.1	8.3		
8/26/2009 21:15	0.1769	0.1769	0.062	19.7	540	8.1	8.3		
8/26/2009 21:30	0.1796	0.1796	0.064	19.7	542	8.1	8.3		
8/26/2009 21:45	0.1769	0.1769	0.062	19.6	542	8.1	8.3		
8/26/2009 22:00	0.1771	0.1771	0.062	19.5	542	8.2	8.3		
8/26/2009 22:15	0.1773	0.1773	0.062	19.4	542	8.2	8.3		
8/26/2009 22:30	0.1789	0.1789	0.063	19.3	544	8.2	8.3		
8/26/2009 22:45	0.1792	0.1792	0.064	19.3	544	8.2	8.3		
8/26/2009 23:00	0.1775	0.1775	0.062	19.2	544	8.2	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/26/2009 23:15	0.1781	0.1781	0.063	19.1	546	8.2	8.3		
8/26/2009 23:30	0.1779	0.1779	0.063	19.1	548	8.2	8.3		
8/26/2009 23:45	0.1777	0.1777	0.063	19	556	8.3	8.3		
8/27/2009 0:00	0.1782	0.1782	0.063	18.9	552	8.3	8.3		
8/27/2009 0:15	0.1766	0.1766	0.062	18.9	554	8.3	8.3		
8/27/2009 0:30	0.1765	0.1765	0.062	18.8	554	8.3	8.3		
8/27/2009 0:45	0.1776	0.1776	0.063	18.7	554	8.3	8.3		
8/27/2009 1:00	0.1778	0.1778	0.063	18.7	554	8.3	8.3		
8/27/2009 1:15	0.1785	0.1785	0.063	18.6	554	8.3	8.3		
8/27/2009 1:30	0.1782	0.1782	0.063	18.6	554	8.3	8.3		
8/27/2009 1:45	0.1778	0.1778	0.063	18.5	556	8.4	8.3		
8/27/2009 2:00	0.1778	0.1778	0.063	18.5	556	8.4	8.3		
8/27/2009 2:15	0.1769	0.1769	0.062	18.5	556	8.4	8.3		
8/27/2009 2:30	0.1769	0.1769	0.062	18.4	556	8.4	8.3		
8/27/2009 2:45	0.1774	0.1774	0.062	18.4	558	8.4	8.3		
8/27/2009 3:00	0.1752	0.1752	0.061	18.4	558	8.4	8.3		
8/27/2009 3:15	0.1771	0.1771	0.062	18.4	558	8.4	8.3		
8/27/2009 3:30	0.1779	0.1779	0.063	18.4	558	8.4	8.3		
8/27/2009 3:45	0.1765	0.1765	0.062	18.3	558	8.4	8.3		
8/27/2009 4:00	0.1781	0.1781	0.063	18.3	558	8.4	8.3		
8/27/2009 4:15	0.1778	0.1778	0.063	18.3	558	8.4	8.3		
8/27/2009 4:30	0.1781	0.1781	0.063	18.3	560	8.4	8.3		
8/27/2009 4:45	0.1776	0.1776	0.063	18.2	560	8.4	8.3		
8/27/2009 5:00	0.1778	0.1778	0.063	18.2	560	8.4	8.3		
8/27/2009 5:15	0.1769	0.1769	0.062	18.2	560	8.4	8.3		
8/27/2009 5:30	0.1759	0.1759	0.061	18.1	560	8.4	8.3		
8/27/2009 5:45	0.1773	0.1773	0.062	18.1	560	8.4	8.3		
8/27/2009 6:00	0.1769	0.1769	0.062	18.1	560	8.4	8.3		
8/27/2009 6:15	0.1766	0.1766	0.062	18.1	560	8.5	8.3		
8/27/2009 6:30	0.1781	0.1781	0.063	18	560	8.5	8.3		
8/27/2009 6:45	0.1768	0.1768	0.062	18	560	8.5	8.3		
8/27/2009 7:00	0.1771	0.1771	0.062	18	560	8.5	8.3		
8/27/2009 7:15	0.1774	0.1774	0.062	18	560	8.5	8.3		
8/27/2009 7:30	0.175	0.175	0.061	18	560	8.5	8.3		
8/27/2009 7:45	0.1753	0.1753	0.061	18	560	8.6	8.3		
8/27/2009 8:00	0.1765	0.1765	0.062	18.1	560	8.6	8.3		
8/27/2009 8:15	0.1778	0.1778	0.063	18.1	560	8.6	8.3		
8/27/2009 8:30	0.1768	0.1768	0.062	18.2	560	8.6	8.3		
8/27/2009 8:45	0.1777	0.1777	0.063	18.3	560	8.6	8.3		
8/27/2009 9:00	0.1787	0.1787	0.063	18.4	562	8.6	8.3		
8/27/2009 9:15	0.1774	0.1774	0.062	18.5	562	8.6	8.3		
8/27/2009 9:30	0.1771	0.1771	0.062	18.6	562	8.6	8.3		
8/27/2009 9:45	0.1789	0.1789	0.063	18.6	562	8.5	8.3		
8/27/2009 10:00	0.1779	0.1779	0.063	18.6	562	8.6	8.3		
8/27/2009 10:15	0.1796	0.1796	0.064	18.7	562	8.6	8.3		
8/27/2009 10:30	0.1783	0.1783	0.063	18.8	562	8.6	8.4		
8/27/2009 10:45	0.1772	0.1772	0.062	18.9	562	8.6	8.4		
8/27/2009 11:00	0.1788	0.1788	0.063	19.2	562	8.6	8.4		
8/27/2009 11:15	0.1796	0.1796	0.064	19.6	562	8.6	8.4		
8/27/2009 11:30	0.1774	0.1774	0.062	20	562	8.5	8.4		
8/27/2009 11:45	0.1775	0.1775	0.062	20.1	564	8.4	8.4		
8/27/2009 12:00	0.1786	0.1786	0.063	20	564	8.4	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/27/2009 12:15	0.1799	0.1799	0.064	19.9	564	8.4	8.4		
8/27/2009 12:30	0.1776	0.1776	0.063	19.8	564	8.4	8.4		
8/27/2009 12:45	0.1786	0.1786	0.063	19.8	564	8.3	8.4		12:49
8/27/2009 13:00	0.1791	0.1791	0.064	19.7	564	8.3	8.4		
8/27/2009 13:15	0.1776	0.1776	0.063	19.6	564	8.3	8.4		
8/27/2009 13:30	0.178	0.178	0.063	19.6	564	8.2	8.4		
8/27/2009 13:45	0.1808	0.1808	0.065	19.5	554	8.2	8.4		
8/27/2009 14:00	0.1896	0.1896	0.072	19.4	528	8.2	8.3		
8/27/2009 14:15	0.1967	0.1967	0.078	19.4	520	8.2	8.3		
8/27/2009 14:30	0.2004	0.2004	0.082	19.4	512	8.2	8.3		
8/27/2009 14:45	0.2028	0.2028	0.084	19.3	504	8.2	8.3		
8/27/2009 15:00	0.2021	0.2021	0.083	19.3	492	8.2	8.3		
8/27/2009 15:15	0.2064	0.2064	0.087	19.3	494	8.3	8.3		
8/27/2009 15:30	0.2064	0.2064	0.087	19.3	500	8.3	8.3		
8/27/2009 15:45	0.2054	0.2054	0.086	19.4	500	8.4	8.3		
8/27/2009 16:00	0.2052	0.2052	0.086	19.4	500	8.3	8.4		
8/27/2009 16:15	0.2107	0.2107	0.092	19.4	500	8.3	8.4		
8/27/2009 16:30	0.2204	0.2204	0.103	19.4	502	8.3	8.4		
8/27/2009 16:45	0.2204	0.2204	0.103	19.3	508	8.4	8.4		
8/27/2009 17:00	0.2191	0.2191	0.101	19.3	514	8.4	8.4		
8/27/2009 17:15	0.2146	0.2146	0.096	19.3	520	8.3	8.4		
8/27/2009 17:30	0.2136	0.2136	0.095	19.2	524	8.3	8.4		
8/27/2009 17:45	0.2108	0.2108	0.092	19.2	522	8.3	8.4		
8/27/2009 18:00	0.2121	0.2121	0.093	19.2	512	8.3	8.4		
8/27/2009 18:15	0.2068	0.2068	0.088	19.1	500	8.3	8.3		
8/27/2009 18:30	0.2081	0.2081	0.089	19.1	490	8.3	8.3		
8/27/2009 18:45	0.2057	0.2057	0.087	19.1	484	8.3	8.3		
8/27/2009 19:00	0.204	0.204	0.085	19	478	8.3	8.3		
8/27/2009 19:15	0.2061	0.2061	0.087	19	474	8.3	8.3		
8/27/2009 19:30	0.2094	0.2094	0.091	19	472	8.3	8.3		
8/27/2009 19:45	0.2075	0.2075	0.089	19	468	8.3	8.3		
8/27/2009 20:00	0.2076	0.2076	0.089	18.9	468	8.3	8.3		
8/27/2009 20:15	0.2073	0.2073	0.088	18.9	466	8.3	8.3		
8/27/2009 20:30	0.2042	0.2042	0.085	18.9	462	8.3	8.2		
8/27/2009 20:45	0.2049	0.2049	0.086	18.9	458	8.3	8.2		
8/27/2009 21:00	0.2019	0.2019	0.083	18.9	456	8.3	8.2		
8/27/2009 21:15	0.1969	0.1969	0.078	18.8	452	8.3	8.2		
8/27/2009 21:30	0.1961	0.1961	0.078	18.8	450	8.3	8.2		
8/27/2009 21:45	0.1973	0.1973	0.079	18.8	448	8.3	8.2		
8/27/2009 22:00	0.1994	0.1994	0.081	18.8	448	8.3	8.2		
8/27/2009 22:15	0.1999	0.1999	0.081	18.8	448	8.3	8.2		
8/27/2009 22:30	0.1979	0.1979	0.079	18.7	448	8.3	8.2		
8/27/2009 22:45	0.1974	0.1974	0.079	18.7	448	8.3	8.2		
8/27/2009 23:00	0.1969	0.1969	0.078	18.7	450	8.3	8.2		
8/27/2009 23:15	0.1962	0.1962	0.078	18.7	450	8.3	8.2		
8/27/2009 23:30	0.1977	0.1977	0.079	18.7	452	8.3	8.2		
8/27/2009 23:45	0.1961	0.1961	0.078	18.7	454	8.3	8.2		
8/28/2009 0:00	0.1976	0.1976	0.079	18.6	456	8.3	8.2		
8/28/2009 0:15	0.1959	0.1959	0.077	18.6	458	8.3	8.2		
8/28/2009 0:30	0.1931	0.1931	0.075	18.6	460	8.3	8.2		
8/28/2009 0:45	0.1914	0.1914	0.073	18.6	464	8.3	8.2		
8/28/2009 1:00	0.1958	0.1958	0.077	18.6	466	8.3	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/28/2009 1:15	0.1938	0.1938	0.075	18.5	468	8.3	8.2		
8/28/2009 1:30	0.1948	0.1948	0.076	18.5	470	8.3	8.2		
8/28/2009 1:45	0.1944	0.1944	0.076	18.5	474	8.3	8.2		
8/28/2009 2:00	0.1928	0.1928	0.075	18.5	476	8.4	8.2		
8/28/2009 2:15	0.195	0.195	0.077	18.4	478	8.4	8.2		
8/28/2009 2:30	0.1929	0.1929	0.075	18.4	480	8.4	8.2		
8/28/2009 2:45	0.1943	0.1943	0.076	18.4	482	8.4	8.2		
8/28/2009 3:00	0.1923	0.1923	0.074	18.4	484	8.4	8.2		
8/28/2009 3:15	0.1896	0.1896	0.072	18.4	486	8.4	8.2		
8/28/2009 3:30	0.1892	0.1892	0.072	18.3	488	8.4	8.2		
8/28/2009 3:45	0.1909	0.1909	0.073	18.3	490	8.4	8.2		
8/28/2009 4:00	0.191	0.191	0.073	18.3	492	8.4	8.2		
8/28/2009 4:15	0.1911	0.1911	0.073	18.3	492	8.4	8.2		
8/28/2009 4:30	0.1889	0.1889	0.071	18.3	494	8.4	8.2		
8/28/2009 4:45	0.191	0.191	0.073	18.3	496	8.4	8.2		
8/28/2009 5:00	0.1913	0.1913	0.073	18.2	498	8.4	8.2		
8/28/2009 5:15	0.1909	0.1909	0.073	18.2	498	8.4	8.2		
8/28/2009 5:30	0.1884	0.1884	0.071	18.2	500	8.4	8.2		
8/28/2009 5:45	0.1891	0.1891	0.071	18.2	500	8.4	8.2		
8/28/2009 6:00	0.1891	0.1891	0.071	18.2	502	8.4	8.2		
8/28/2009 6:15	0.1904	0.1904	0.073	18.2	502	8.4	8.2		
8/28/2009 6:30	0.1894	0.1894	0.072	18.2	504	8.4	8.2		
8/28/2009 6:45	0.189	0.189	0.071	18.1	506	8.4	8.2		
8/28/2009 7:00	0.1891	0.1891	0.071	18.1	506	8.4	8.2		
8/28/2009 7:15	0.1883	0.1883	0.071	18.1	508	8.4	8.2		
8/28/2009 7:30	0.1882	0.1882	0.071	18.1	508	8.5	8.2		
8/28/2009 7:45	0.1898	0.1898	0.072	18.1	508	8.5	8.3		
8/28/2009 8:00	0.1901	0.1901	0.072	18.2	510	8.5	8.3		
8/28/2009 8:15	0.1898	0.1898	0.072	18.2	510	8.5	8.3		
8/28/2009 8:30	0.1876	0.1876	0.070	18.2	510	8.5	8.3		
8/28/2009 8:45	0.1892	0.1892	0.072	18.2	512	8.5	8.3		
8/28/2009 9:00	0.1886	0.1886	0.071	18.2	512	8.5	8.3		
8/28/2009 9:15	0.1895	0.1895	0.072	18.3	512	8.5	8.3		
8/28/2009 9:30	0.1884	0.1884	0.071	18.3	514	8.5	8.3		
8/28/2009 9:45	0.1881	0.1881	0.071	18.4	514	8.5	8.3		
8/28/2009 10:00	0.189	0.189	0.071	18.4	514	8.6	8.3		
8/28/2009 10:15	0.1894	0.1894	0.072	18.5	514	8.6	8.3		
8/28/2009 10:30	0.1886	0.1886	0.071	18.6	514	8.6	8.3		
8/28/2009 10:45	0.1896	0.1896	0.072	18.6	514	8.6	8.3		
8/28/2009 11:00	0.1878	0.1878	0.070	18.7	514	8.6	8.3		
8/28/2009 11:15	0.1906	0.1906	0.073	18.8	514	8.5	8.3		
8/28/2009 11:30	0.1889	0.1889	0.071	18.8	514	8.5	8.3		
8/28/2009 11:45	0.1901	0.1901	0.072	18.9	514	8.5	8.3		
8/28/2009 12:00	0.1914	0.1914	0.073	18.9	510	8.5	8.3		
8/28/2009 12:15	0.1961	0.1961	0.078	18.9	502	8.5	8.3		
8/28/2009 12:30	0.1954	0.1954	0.077	19	500	8.4	8.3		
8/28/2009 12:45	0.1956	0.1956	0.077	19.1	498	8.5	8.3		12:49
8/28/2009 13:00	0.196	0.196	0.077	19.1	496	8.4	8.3		
8/28/2009 13:15	0.1961	0.1961	0.078	19.2	494	8.4	8.3		
8/30/2009 12:15	0.1959	0.1959	0.077	19.3	504	8.4	8.3		
8/30/2009 12:30	0.1891	0.1891	0.071	20.5	564	8.3	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/30/2009 12:45	0.1849	0.1849	0.068	20.4	564	8.3	8.4		
8/30/2009 13:00	0.1908	0.1908	0.073	20.4	568	8.2	8.4		
8/30/2009 13:15	0.2145	0.2145	0.096	20.5	566	8.1	8.2		13:12
8/30/2009 13:30	0.2141	0.2141	0.096	20.4	566	8.2	8.2		
8/30/2009 13:45	0.2119	0.2119	0.093	20.4	566	8.2	8.2		
8/30/2009 14:00	0.216	0.216	0.098	20.4	566	8.2	8.2		
8/30/2009 14:15	0.2158	0.2158	0.097	20.4	568	8.2	8.2		
8/30/2009 14:30	0.2129	0.2129	0.094	20.4	576	8.1	8.2		
8/30/2009 14:45	0.2121	0.2121	0.093	20.4	570	8.1	8.2		
8/30/2009 15:00	0.2111	0.2111	0.092	20.4	568	8.1	8.2		
8/30/2009 15:15	0.2104	0.2104	0.092	20.4	570	8.1	8.2		
8/30/2009 15:30	0.2091	0.2091	0.090	20.4	570	8.1	8.2		
8/30/2009 15:45	0.2086	0.2086	0.090	20.4	570	8.1	8.3		
8/30/2009 16:00	0.2074	0.2074	0.088	20.4	572	8.1	8.2		
8/30/2009 16:15	0.2077	0.2077	0.089	20.3	570	8.1	8.2		
8/30/2009 16:30	0.2002	0.2002	0.081	20.3	572	8.1	8.2		
8/30/2009 16:45	0.1906	0.1906	0.073	20.3	572	8.1	8.2		
8/30/2009 17:00	0.1898	0.1898	0.072	20.3	572	8.1	8.2		
8/30/2009 17:15	0.1895	0.1895	0.072	20.3	572	8.1	8.2		
8/30/2009 17:30	0.1898	0.1898	0.072	20.2	572	8.1	8.2		
8/30/2009 17:45	0.1901	0.1901	0.072	20.2	574	8.1	8.2		
8/30/2009 18:00	0.1879	0.1879	0.070	20.1	574	8.1	8.2		
8/30/2009 18:15	0.1886	0.1886	0.071	20	574	8.1	8.2		
8/30/2009 18:30	0.1882	0.1882	0.071	20	574	8.1	8.2		
8/30/2009 18:45	0.1885	0.1885	0.071	19.9	574	8.1	8.2		
8/30/2009 19:00	0.1887	0.1887	0.071	19.8	576	8.1	8.2		
8/30/2009 19:15	0.1894	0.1894	0.072	19.7	576	8.1	8.2		
8/30/2009 19:30	0.1856	0.1856	0.069	19.6	576	8.1	8.2		
8/30/2009 19:45	0.186	0.186	0.069	19.5	576	8.1	8.2		
8/30/2009 20:00	0.1874	0.1874	0.070	19.4	578	8.1	8.2		
8/30/2009 20:15	0.1861	0.1861	0.069	19.3	578	8.2	8.2		
8/30/2009 20:30	0.1849	0.1849	0.068	19.2	578	8.2	8.2		
8/30/2009 20:45	0.1844	0.1844	0.068	19.1	578	8.2	8.1		
8/30/2009 21:00	0.1842	0.1842	0.068	19	580	8.2	8.2		
8/30/2009 21:15	0.184	0.184	0.067	18.9	580	8.2	8.1		
8/30/2009 21:30	0.185	0.185	0.068	18.8	580	8.3	8.1		
8/30/2009 21:45	0.1842	0.1842	0.068	18.7	582	8.3	8.1		
8/30/2009 22:00	0.1838	0.1838	0.067	18.7	582	8.3	8.2		
8/30/2009 22:15	0.1844	0.1844	0.068	18.6	582	8.3	8.2		
8/30/2009 22:30	0.1832	0.1832	0.067	18.5	584	8.3	8.2		
8/30/2009 22:45	0.1843	0.1843	0.068	18.4	584	8.3	8.2		
8/30/2009 23:00	0.1853	0.1853	0.068	18.3	584	8.4	8.2		
8/30/2009 23:15	0.1848	0.1848	0.068	18.3	586	8.4	8.2		
8/30/2009 23:30	0.1874	0.1874	0.070	18.2	586	8.4	8.2		
8/30/2009 23:45	0.1892	0.1892	0.072	18.1	586	8.4	8.2		
8/31/2009 0:00	0.1909	0.1909	0.073	18	588	8.5	8.2		
8/31/2009 0:15	0.1916	0.1916	0.074	17.9	588	8.5	8.2		
8/31/2009 0:30	0.1906	0.1906	0.073	17.8	588	8.5	8.2		
8/31/2009 0:45	0.1889	0.1889	0.071	17.8	590	8.5	8.2		
8/31/2009 1:00	0.1911	0.1911	0.073	17.7	590	8.5	8.2		
8/31/2009 1:15	0.1878	0.1878	0.070	17.6	590	8.5	8.2		
8/31/2009 1:30	0.1906	0.1906	0.073	17.5	590	8.5	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/31/2009 1:45	0.1879	0.1879	0.070	17.4	590	8.5	8.1		
8/31/2009 2:00	0.1902	0.1902	0.072	17.4	590	8.5	8.1		
8/31/2009 2:15	0.1912	0.1912	0.073	17.3	590	8.6	8.1		
8/31/2009 2:30	0.1949	0.1949	0.076	17.2	590	8.6	8.1		
8/31/2009 2:45	0.1931	0.1931	0.075	17.1	592	8.6	8.1		
8/31/2009 3:00	0.1909	0.1909	0.073	17.1	592	8.6	8.1		
8/31/2009 3:15	0.1918	0.1918	0.074	17	592	8.6	8.1		
8/31/2009 3:30	0.1908	0.1908	0.073	16.9	592	8.6	8.1		
8/31/2009 3:45	0.1929	0.1929	0.075	16.8	594	8.7	8.1		
8/31/2009 4:00	0.1919	0.1919	0.074	16.8	594	8.7	8.1		
8/31/2009 4:15	0.1929	0.1929	0.075	16.7	594	8.7	8.1		
8/31/2009 4:30	0.1909	0.1909	0.073	16.7	594	8.7	8.1		
8/31/2009 4:45	0.1917	0.1917	0.074	16.6	594	8.7	8.1		
8/31/2009 5:00	0.1926	0.1926	0.074	16.5	594	8.8	8.1		
8/31/2009 5:15	0.189	0.189	0.071	16.5	594	8.8	8.1		
8/31/2009 5:30	0.1906	0.1906	0.073	16.4	596	8.8	8.1		
8/31/2009 5:45	0.1899	0.1899	0.072	16.4	596	8.8	8.2		
8/31/2009 6:00	0.1887	0.1887	0.071	16.3	596	8.8	8.1		
8/31/2009 6:15	0.1909	0.1909	0.073	16.3	596	8.8	8.2		
8/31/2009 6:30	0.1921	0.1921	0.074	16.2	596	8.8	8.2		
8/31/2009 6:45	0.1914	0.1914	0.073	16.2	596	8.9	8.2		
8/31/2009 7:00	0.1911	0.1911	0.073	16.1	598	8.9	8.2		
8/31/2009 7:15	0.1923	0.1923	0.074	16.1	598	8.9	8.2		
8/31/2009 7:30	0.1925	0.1925	0.074	16.1	598	9	8.2		
8/31/2009 7:45	0.193	0.193	0.075	16.1	598	9	8.2		
8/31/2009 8:00	0.1934	0.1934	0.075	16.1	598	9	8.2		
8/31/2009 8:15	0.193	0.193	0.075	16.1	598	9	8.2		
8/31/2009 8:30	0.194	0.194	0.076	16.1	598	9	8.3		
8/31/2009 8:45	0.1927	0.1927	0.075	16.2	598	9	8.3		
8/31/2009 9:00	0.1939	0.1939	0.076	16.3	598	9	8.3		
8/31/2009 9:15	0.1934	0.1934	0.075	16.4	600	9	8.3		
8/31/2009 9:30	0.1936	0.1936	0.075	16.6	600	9	8.3		
8/31/2009 9:45	0.1932	0.1932	0.075	16.8	600	9	8.3		
8/31/2009 10:00	0.1932	0.1932	0.075	17.1	600	9	8.3		
8/31/2009 10:15	0.1922	0.1922	0.074	17.4	600	8.9	8.3		
8/31/2009 10:30	0.1931	0.1931	0.075	17.7	600	8.9	8.3		
8/31/2009 10:45	0.1933	0.1933	0.075	18.1	600	8.8	8.3		
8/31/2009 11:00	0.1929	0.1929	0.075	18.4	600	8.8	8.3		
8/31/2009 11:15	0.1927	0.1927	0.075	18.7	600	8.8	8.4		
8/31/2009 11:30	0.1924	0.1924	0.074	18.9	600	8.7	8.4		
8/31/2009 11:45	0.1914	0.1914	0.073	19.1	600	8.7	8.3		
8/31/2009 12:00	0.193	0.193	0.075	19.3	600	8.7	8.4		
8/31/2009 12:15	0.1936	0.1936	0.075	19.3	600	8.6	8.4		
8/31/2009 12:30	0.1929	0.1929	0.075	19.1	600	8.6	8.4		
8/31/2009 12:45	0.1937	0.1937	0.075	19.1	600	8.6	8.4		
8/31/2009 13:00	0.1912	0.1912	0.073	19	600	8.6	8.4		
8/31/2009 13:15	0.19	0.19	0.072	19	600	8.6	8.4		13:11
8/31/2009 13:30	0.1905	0.1905	0.073	18.9	600	8.6	8.4		
8/31/2009 13:45	0.1904	0.1904	0.073	18.9	600	8.6	8.4		
8/31/2009 14:00	0.1866	0.1866	0.069	19	602	8.6	8.4		
8/31/2009 14:15	0.1856	0.1856	0.069	19	602	8.6	8.4		
8/31/2009 14:30	0.1846	0.1846	0.068	19	602	8.5	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
8/31/2009 14:45	0.1834	0.1834	0.067	19	602	8.5	8.4		
8/31/2009 15:00	0.1821	0.1821	0.066	19	602	8.5	8.4		
8/31/2009 15:15	0.183	0.183	0.067	19.1	604	8.5	8.4		
8/31/2009 15:30	0.182	0.182	0.066	19.1	604	8.5	8.4		
8/31/2009 15:45	0.183	0.183	0.067	19.1	604	8.4	8.4		
8/31/2009 16:00	0.181	0.181	0.065	19.2	604	8.4	8.4		
8/31/2009 16:15	0.1812	0.1812	0.065	19.2	604	8.4	8.4		
8/31/2009 16:30	0.1819	0.1819	0.066	19.2	606	8.4	8.4		
8/31/2009 16:45	0.1792	0.1792	0.064	19.2	606	8.3	8.4		
8/31/2009 17:00	0.1818	0.1818	0.066	19.2	606	8.3	8.4		
8/31/2009 17:15	0.1814	0.1814	0.065	19.2	606	8.3	8.4		
8/31/2009 17:30	0.1799	0.1799	0.064	19.1	606	8.4	8.4		
8/31/2009 17:45	0.1799	0.1799	0.064	19.1	608	8.4	8.4		
8/31/2009 18:00	0.1782	0.1782	0.063	19	608	8.4	8.4		
8/31/2009 18:15	0.1781	0.1781	0.063	19	608	8.4	8.4		
8/31/2009 18:30	0.1788	0.1788	0.063	18.9	608	8.4	8.4		
8/31/2009 18:45	0.1787	0.1787	0.063	18.9	608	8.4	8.4		
8/31/2009 19:00	0.1801	0.1801	0.064	18.8	610	8.4	8.4		
8/31/2009 19:15	0.1795	0.1795	0.064	18.7	610	8.4	8.4		
8/31/2009 19:30	0.1794	0.1794	0.064	18.7	610	8.4	8.4		
8/31/2009 19:45	0.1775	0.1775	0.062	18.6	610	8.4	8.4		
8/31/2009 20:00	0.178	0.178	0.063	18.5	610	8.4	8.4		
8/31/2009 20:15	0.1771	0.1771	0.062	18.4	610	8.4	8.4		
8/31/2009 20:30	0.1782	0.1782	0.063	18.3	610	8.4	8.4		
8/31/2009 20:45	0.1782	0.1782	0.063	18.2	612	8.5	8.4		
8/31/2009 21:00	0.1786	0.1786	0.063	18.1	612	8.5	8.4		
8/31/2009 21:15	0.1788	0.1788	0.063	18.1	612	8.5	8.4		
8/31/2009 21:30	0.1787	0.1787	0.063	18	612	8.5	8.4		
8/31/2009 21:45	0.1799	0.1799	0.064	17.9	614	8.5	8.4		
8/31/2009 22:00	0.1804	0.1804	0.065	17.8	614	8.6	8.4		
8/31/2009 22:15	0.1791	0.1791	0.064	17.7	614	8.6	8.4		
8/31/2009 22:30	0.1793	0.1793	0.064	17.6	616	8.6	8.4		
8/31/2009 22:45	0.1791	0.1791	0.064	17.5	616	8.6	8.4		
8/31/2009 23:00	0.1796	0.1796	0.064	17.4	616	8.6	8.4		
8/31/2009 23:15	0.1784	0.1784	0.063	17.3	616	8.7	8.4		
8/31/2009 23:30	0.1786	0.1786	0.063	17.3	618	8.7	8.4		
8/31/2009 23:45	0.18	0.18	0.064	17.2	618	8.7	8.4		
9/1/2009 0:00	0.1788	0.1788	0.063	17.1	618	8.7	8.4		
9/1/2009 0:15	0.1792	0.1792	0.064	17.1	618	8.7	8.3		
9/1/2009 0:30	0.1779	0.1779	0.063	17	620	8.7	8.4		
9/1/2009 0:45	0.1788	0.1788	0.063	16.9	620	8.8	8.4		
9/1/2009 1:00	0.1799	0.1799	0.064	16.8	620	8.8	8.3		
9/1/2009 1:15	0.1794	0.1794	0.064	16.8	620	8.8	8.3		
9/1/2009 1:30	0.181	0.181	0.065	16.7	620	8.8	8.3		
9/1/2009 1:45	0.1806	0.1806	0.065	16.7	620	8.8	8.3		
9/1/2009 2:00	0.1803	0.1803	0.065	16.6	620	8.8	8.3		
9/1/2009 2:15	0.1804	0.1804	0.065	16.6	620	8.8	8.3		
9/1/2009 2:30	0.1808	0.1808	0.065	16.5	620	8.8	8.3		
9/1/2009 2:45	0.1802	0.1802	0.064	16.5	622	8.8	8.3		
9/1/2009 3:00	0.1792	0.1792	0.064	16.5	622	8.8	8.3		
9/1/2009 3:15	0.1801	0.1801	0.064	16.4	622	8.9	8.3		
9/1/2009 3:30	0.1808	0.1808	0.065	16.4	622	8.9	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/1/2009 3:45	0.18	0.18	0.064	16.3	622	8.9	8.3		
9/1/2009 4:00	0.181	0.181	0.065	16.3	624	8.9	8.3		
9/1/2009 4:15	0.1809	0.1809	0.065	16.3	624	8.9	8.3		
9/1/2009 4:30	0.18	0.18	0.064	16.2	624	8.9	8.3		
9/1/2009 4:45	0.1791	0.1791	0.064	16.2	624	8.9	8.3		
9/1/2009 5:00	0.1786	0.1786	0.063	16.2	626	8.9	8.3		
9/1/2009 5:15	0.1774	0.1774	0.062	16.1	626	8.9	8.3		
9/1/2009 5:30	0.1776	0.1776	0.063	16.1	626	8.9	8.3		
9/1/2009 5:45	0.1781	0.1781	0.063	16.1	626	9	8.3		
9/1/2009 6:00	0.1787	0.1787	0.063	16	626	9	8.3		
9/1/2009 6:15	0.1792	0.1792	0.064	16	626	9	8.3		
9/1/2009 6:30	0.1776	0.1776	0.063	16	626	9	8.3		
9/1/2009 6:45	0.1771	0.1771	0.062	15.9	626	9	8.3		
9/1/2009 7:00	0.1779	0.1779	0.063	15.9	626	9	8.3		
9/1/2009 7:15	0.176	0.176	0.061	15.9	628	9	8.3		
9/1/2009 7:30	0.1788	0.1788	0.063	15.9	628	9.1	8.4		
9/1/2009 7:45	0.178	0.178	0.063	15.9	626	9.1	8.4		
9/1/2009 8:00	0.1788	0.1788	0.063	15.9	626	9.1	8.4		
9/1/2009 8:15	0.1786	0.1786	0.063	16	628	9.1	8.4		
9/1/2009 8:30	0.1786	0.1786	0.063	16	628	9.2	8.4		
9/1/2009 8:45	0.1776	0.1776	0.063	16.1	628	9.2	8.4		
9/1/2009 9:00	0.1781	0.1781	0.063	16.2	628	9.2	8.4		
9/1/2009 9:15	0.1791	0.1791	0.064	16.3	628	9.2	8.4		
9/1/2009 9:30	0.1788	0.1788	0.063	16.4	628	9.2	8.4		
9/1/2009 9:45	0.1784	0.1784	0.063	16.6	628	9.2	8.4		
9/1/2009 10:00	0.1791	0.1791	0.064	16.8	626	9.1	8.4		
9/1/2009 10:15	0.1787	0.1787	0.063	17.1	626	9.1	8.4		
9/1/2009 10:30	0.1795	0.1795	0.064	17.4	626	9	8.4		
9/1/2009 10:45	0.1799	0.1799	0.064	17.6	626	9	8.4		
9/1/2009 11:00	0.1796	0.1796	0.064	17.5	626	8.9	8.4		
9/1/2009 11:15	0.1788	0.1788	0.063	17.5	628	8.9	8.4		
9/1/2009 11:30	0.1792	0.1792	0.064	17.4	626	8.9	8.4		
9/1/2009 11:45	0.1798	0.1798	0.064	17.4	628	8.9	8.4		
9/1/2009 12:00	0.1768	0.1768	0.062	17.4	626	8.9	8.4		
9/1/2009 12:15	0.1776	0.1776	0.063	17.5	626	8.9	8.4		
9/1/2009 12:30	0.1779	0.1779	0.063	17.5	626	8.9	8.4		
9/1/2009 12:45	0.1776	0.1776	0.063	17.5	626	8.9	8.4		
9/1/2009 13:00	0.1757	0.1757	0.061	17.6	626	8.9	8.4		
9/1/2009 13:15	0.177	0.177	0.062	17.6	626	8.8	8.4		13:11
9/1/2009 13:30	0.1776	0.1776	0.063	17.6	626	8.8	8.4		
9/1/2009 13:45	0.1771	0.1771	0.062	17.7	626	8.8	8.4		
9/1/2009 14:00	0.1776	0.1776	0.063	17.9	626	8.9	8.4		
9/1/2009 14:15	0.1783	0.1783	0.063	18.1	628	8.9	8.4		
9/1/2009 14:30	0.1758	0.1758	0.061	18.1	628	8.8	8.4		
9/1/2009 14:45	0.1764	0.1764	0.062	18.2	628	8.8	8.4		
9/1/2009 15:00	0.1779	0.1779	0.063	18.2	628	8.7	8.4		
9/1/2009 15:15	0.1758	0.1758	0.061	18.2	628	8.7	8.4		
9/1/2009 15:30	0.1749	0.1749	0.061	18.2	628	8.7	8.4		
9/1/2009 15:45	0.1771	0.1771	0.062	18.3	628	8.7	8.4		
9/1/2009 16:00	0.1783	0.1783	0.063	18.4	628	8.7	8.4		
9/1/2009 16:15	0.1777	0.1777	0.063	18.5	628	8.7	8.4		
9/1/2009 16:30	0.1776	0.1776	0.063	18.5	628	8.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/1/2009 16:45	0.1786	0.1786	0.063	18.5	628	8.7	8.4		
9/1/2009 17:00	0.1785	0.1785	0.063	18.5	628	8.6	8.4		
9/1/2009 17:15	0.1778	0.1778	0.063	18.5	628	8.6	8.4		
9/1/2009 17:30	0.1784	0.1784	0.063	18.5	630	8.6	8.4		
9/1/2009 17:45	0.1794	0.1794	0.064	18.5	630	8.5	8.4		
9/1/2009 18:00	0.1779	0.1779	0.063	18.5	630	8.5	8.4		
9/1/2009 18:15	0.1772	0.1772	0.062	18.4	630	8.5	8.4		
9/1/2009 18:30	0.1782	0.1782	0.063	18.4	630	8.5	8.4		
9/1/2009 18:45	0.1777	0.1777	0.063	18.4	630	8.5	8.4		
9/1/2009 19:00	0.1774	0.1774	0.062	18.3	630	8.5	8.4		
9/1/2009 19:15	0.1794	0.1794	0.064	18.3	630	8.5	8.4		
9/1/2009 19:30	0.1774	0.1774	0.062	18.2	630	8.5	8.3		
9/1/2009 19:45	0.1774	0.1774	0.062	18.2	630	8.5	8.3		
9/1/2009 20:00	0.1783	0.1783	0.063	18.1	632	8.5	8.4		
9/1/2009 20:15	0.1789	0.1789	0.063	18.1	632	8.5	8.3		
9/1/2009 20:30	0.177	0.177	0.062	18.1	632	8.5	8.3		
9/1/2009 20:45	0.1753	0.1753	0.061	18	632	8.5	8.4		
9/1/2009 21:00	0.1755	0.1755	0.061	18	632	8.5	8.4		
9/1/2009 21:15	0.1747	0.1747	0.060	18	632	8.5	8.3		
9/1/2009 21:30	0.1774	0.1774	0.062	17.9	632	8.5	8.3		
9/1/2009 21:45	0.1757	0.1757	0.061	17.9	632	8.6	8.3		
9/1/2009 22:00	0.1766	0.1766	0.062	17.9	632	8.6	8.3		
9/1/2009 22:15	0.176	0.176	0.061	17.9	634	8.6	8.3		
9/1/2009 22:30	0.1763	0.1763	0.062	17.8	634	8.6	8.3		
9/1/2009 22:45	0.1741	0.1741	0.060	17.8	634	8.6	8.3		
9/1/2009 23:00	0.1752	0.1752	0.061	17.8	634	8.6	8.3		
9/1/2009 23:15	0.1765	0.1765	0.062	17.8	634	8.6	8.3		
9/1/2009 23:30	0.1766	0.1766	0.062	17.7	634	8.6	8.3		
9/1/2009 23:45	0.177	0.177	0.062	17.7	634	8.6	8.3		
9/2/2009 0:00	0.1771	0.1771	0.062	17.7	634	8.6	8.3		
9/2/2009 0:15	0.177	0.177	0.062	17.7	634	8.6	8.3		
9/2/2009 0:30	0.1754	0.1754	0.061	17.7	634	8.6	8.3		
9/2/2009 0:45	0.1751	0.1751	0.061	17.6	634	8.6	8.3		
9/2/2009 1:00	0.1752	0.1752	0.061	17.6	636	8.6	8.3		
9/2/2009 1:15	0.1754	0.1754	0.061	17.6	636	8.6	8.3		
9/2/2009 1:30	0.1744	0.1744	0.060	17.6	636	8.6	8.3		
9/2/2009 1:45	0.1741	0.1741	0.060	17.6	636	8.6	8.3		
9/2/2009 2:00	0.1731	0.1731	0.059	17.6	636	8.6	8.3		
9/2/2009 2:15	0.1741	0.1741	0.060	17.6	636	8.6	8.3		
9/2/2009 2:30	0.1747	0.1747	0.060	17.6	636	8.6	8.3		
9/2/2009 2:45	0.1759	0.1759	0.061	17.5	636	8.6	8.3		
9/2/2009 3:00	0.1745	0.1745	0.060	17.5	636	8.6	8.3		
9/2/2009 3:15	0.1747	0.1747	0.060	17.5	636	8.6	8.3		
9/2/2009 3:30	0.1749	0.1749	0.061	17.5	636	8.6	8.3		
9/2/2009 3:45	0.1734	0.1734	0.060	17.5	636	8.6	8.3		
9/2/2009 4:00	0.1743	0.1743	0.060	17.5	636	8.6	8.3		
9/2/2009 4:15	0.1745	0.1745	0.060	17.5	636	8.6	8.3		
9/2/2009 4:30	0.1734	0.1734	0.060	17.5	636	8.7	8.3		
9/2/2009 4:45	0.1736	0.1736	0.060	17.5	636	8.6	8.3		
9/2/2009 5:00	0.1752	0.1752	0.061	17.5	636	8.6	8.3		
9/2/2009 5:15	0.1731	0.1731	0.059	17.5	636	8.6	8.3		
9/2/2009 5:30	0.1752	0.1752	0.061	17.5	636	8.6	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/2/2009 5:45	0.1741	0.1741	0.060	17.5	636	8.7	8.3		
9/2/2009 6:00	0.1761	0.1761	0.061	17.5	634	8.7	8.3		
9/2/2009 6:15	0.1765	0.1765	0.062	17.4	634	8.7	8.4		
9/2/2009 6:30	0.1776	0.1776	0.063	17.4	634	8.7	8.4		
9/2/2009 6:45	0.1763	0.1763	0.062	17.4	634	8.7	8.3		
9/2/2009 7:00	0.1791	0.1791	0.064	17.4	634	8.7	8.3		
9/2/2009 7:15	0.1784	0.1784	0.063	17.4	634	8.7	8.3		
9/2/2009 7:30	0.1792	0.1792	0.064	17.4	634	8.7	8.3		
9/2/2009 7:45	0.1782	0.1782	0.063	17.4	632	8.7	8.3		
9/2/2009 8:00	0.1787	0.1787	0.063	17.4	634	8.7	8.3		
9/2/2009 8:15	0.1778	0.1778	0.063	17.5	632	8.7	8.3		
9/2/2009 8:30	0.1801	0.1801	0.064	17.5	632	8.8	8.3		
9/2/2009 8:45	0.1799	0.1799	0.064	17.5	634	8.8	8.3		
9/2/2009 9:00	0.1811	0.1811	0.065	17.5	632	8.8	8.3		
9/2/2009 9:15	0.1813	0.1813	0.065	17.6	632	8.8	8.3		
9/2/2009 9:30	0.1808	0.1808	0.065	17.6	630	8.7	8.3		
9/2/2009 9:45	0.1816	0.1816	0.066	17.6	630	8.7	8.3		
9/2/2009 10:00	0.1827	0.1827	0.066	17.6	630	8.8	8.3		
9/2/2009 10:15	0.1826	0.1826	0.066	17.6	630	8.7	8.3		
9/2/2009 10:30	0.1828	0.1828	0.066	17.7	630	8.8	8.3		
9/2/2009 10:45	0.1821	0.1821	0.066	17.7	628	8.8	8.3		
9/2/2009 11:00	0.1813	0.1813	0.065	17.8	628	8.8	8.3		
9/2/2009 11:15	0.1824	0.1824	0.066	18	628	8.9	8.3		
9/2/2009 11:30	0.1821	0.1821	0.066	18.1	628	8.8	8.3		
9/2/2009 11:45	0.1826	0.1826	0.066	18.4	628	8.8	8.3		
9/2/2009 12:00	0.1836	0.1836	0.067	18.7	628	8.8	8.4		
9/2/2009 12:15	0.1834	0.1834	0.067	18.8	628	8.7	8.4		
9/2/2009 12:30	0.1819	0.1819	0.066	18.9	628	8.7	8.4		
9/2/2009 12:45	0.1859	0.1859	0.069	19.2	628	8.7	8.4		
9/2/2009 13:00	0.1862	0.1862	0.069	19.3	628	8.7	8.4		
9/2/2009 13:15	0.1843	0.1843	0.068	19.3	628	8.6	8.4		13:11
9/2/2009 13:30	0.1833	0.1833	0.067	19.2	628	8.6	8.4		
9/2/2009 13:45	0.1842	0.1842	0.068	19.2	626	8.5	8.4		
9/2/2009 14:00	0.185	0.185	0.068	19.1	626	8.5	8.4		
9/2/2009 14:15	0.1827	0.1827	0.066	19.1	626	8.5	8.3		
9/2/2009 14:30	0.1818	0.1818	0.066	19.1	624	8.5	8.3		
9/2/2009 14:45	0.1807	0.1807	0.065	19.1	624	8.5	8.3		
9/2/2009 15:00	0.1801	0.1801	0.064	19	624	8.5	8.3		
9/2/2009 15:15	0.1807	0.1807	0.065	19	622	8.5	8.3		
9/2/2009 15:30	0.18	0.18	0.064	19	622	8.5	8.3		
9/2/2009 15:45	0.1807	0.1807	0.065	19.1	620	8.5	8.3		
9/2/2009 16:00	0.1802	0.1802	0.064	19.2	620	8.5	8.3		
9/2/2009 16:15	0.1795	0.1795	0.064	19.2	618	8.5	8.3		
9/2/2009 16:30	0.1802	0.1802	0.064	19.2	618	8.5	8.3		
9/2/2009 16:45	0.1797	0.1797	0.064	19.1	616	8.4	8.3		
9/2/2009 17:00	0.18	0.18	0.064	19.1	616	8.4	8.3		
9/2/2009 17:15	0.1802	0.1802	0.064	19	616	8.4	8.3		
9/2/2009 17:30	0.1783	0.1783	0.063	19	614	8.4	8.3		
9/2/2009 17:45	0.1773	0.1773	0.062	18.9	614	8.4	8.3		
9/2/2009 18:00	0.1776	0.1776	0.063	18.9	614	8.4	8.3		
9/2/2009 18:15	0.1801	0.1801	0.064	18.8	614	8.4	8.3		
9/2/2009 18:30	0.1776	0.1776	0.063	18.8	614	8.4	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/2/2009 18:45	0.1767	0.1767	0.062	18.7	616	8.4	8.3		
9/2/2009 19:00	0.1779	0.1779	0.063	18.7	616	8.4	8.3		
9/2/2009 19:15	0.1776	0.1776	0.063	18.6	616	8.4	8.3		
9/2/2009 19:30	0.1759	0.1759	0.061	18.6	616	8.4	8.3		
9/2/2009 19:45	0.1769	0.1769	0.062	18.5	616	8.4	8.3		
9/2/2009 20:00	0.1763	0.1763	0.062	18.4	616	8.4	8.3		
9/2/2009 20:15	0.1754	0.1754	0.061	18.4	616	8.4	8.3		
9/2/2009 20:30	0.1758	0.1758	0.061	18.3	618	8.4	8.3		
9/2/2009 20:45	0.1756	0.1756	0.061	18.2	618	8.5	8.3		
9/2/2009 21:00	0.176	0.176	0.061	18.2	618	8.5	8.3		
9/2/2009 21:15	0.1778	0.1778	0.063	18.1	618	8.5	8.3		
9/4/2009 14:45	0.2104	0.2104	0.092	19.2	644	8.5	8.4		
9/4/2009 15:00	0.2014	0.2014	0.082	19.7	656	8.5	8.5		
9/4/2009 15:15	0.204	0.204	0.085	19.8	548	8.5	8.6		
9/4/2009 15:30	0.182	0.182	0.066	19.8	668	8.5	8.5		
9/4/2009 15:45	0.1754	0.1754	0.061	19.9	668	8.5	8.5		15:36
9/4/2009 16:00	0.172	0.172	0.059	20	670	8.5	8.5		
9/4/2009 16:15	0.169	0.169	0.057	20	668	8.6	8.5		
9/4/2009 16:30	0.17	0.17	0.057	20	688	8.5	8.5		
9/4/2009 16:45	0.171	0.171	0.058	19.9	670	8.5	8.5		
9/4/2009 17:00	0.167	0.167	0.055	19.8	670	8.5	8.5		
9/4/2009 17:15	0.172	0.172	0.059	19.8	670	8.4	8.5		
9/4/2009 17:30	0.172	0.172	0.059	19.7	670	8.4	8.5		
9/4/2009 17:45	0.174	0.174	0.060	19.6	670	8.4	8.5		
9/4/2009 18:00	0.172	0.172	0.059	19.6	670	8.4	8.5		
9/4/2009 18:15	0.172	0.172	0.059	19.5	670	8.4	8.5		
9/4/2009 18:30	0.166	0.166	0.055	19.5	672	8.4	8.5		
9/4/2009 18:45	0.172	0.172	0.059	19.4	672	8.4	8.5		
9/4/2009 19:00	0.17	0.17	0.057	19.3	672	8.4	8.5		
9/4/2009 19:15	0.17	0.17	0.057	19.3	672	8.4	8.5		
9/4/2009 19:30	0.164	0.164	0.053	19.2	672	8.4	8.5		
9/4/2009 19:45	0.167	0.167	0.055	19.1	672	8.4	8.5		
9/4/2009 20:00	0.163	0.163	0.053	19.1	672	8.4	8.5		
9/4/2009 20:15	0.169	0.169	0.057	19	672	8.4	8.5		
9/4/2009 20:30	0.17	0.17	0.057	18.9	674	8.5	8.5		
9/4/2009 20:45	0.17	0.17	0.057	18.9	674	8.5	8.5		
9/4/2009 21:00	0.17	0.17	0.057	18.8	674	8.5	8.5		
9/4/2009 21:15	0.168	0.168	0.056	18.7	674	8.5	8.4		
9/4/2009 21:30	0.166	0.166	0.055	18.7	676	8.5	8.5		
9/4/2009 21:45	0.167	0.167	0.055	18.6	676	8.5	8.4		
9/4/2009 22:00	0.172	0.172	0.059	18.6	676	8.5	8.4		
9/4/2009 22:15	0.171	0.171	0.058	18.5	676	8.5	8.4		
9/4/2009 22:30	0.168	0.168	0.056	18.5	676	8.5	8.4		
9/4/2009 22:45	0.169	0.169	0.057	18.5	676	8.6	8.4		
9/4/2009 23:00	0.166	0.166	0.055	18.4	678	8.6	8.4		
9/4/2009 23:15	0.168	0.168	0.056	18.4	678	8.6	8.4		
9/4/2009 23:30	0.17	0.17	0.057	18.3	678	8.6	8.4		
9/4/2009 23:45	0.171	0.171	0.058	18.3	678	8.6	8.4		
9/5/2009 0:00	*0.169*	**0.189**	**0.071**	18.3	678	8.6	8.4		
9/5/2009 0:15	*0.167*	**0.187**	**0.070**	18.2	680	8.6	8.4		
9/5/2009 0:30	*0.17*	**0.19**	**0.072**	18.2	680	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/5/2009 0:45	*0.163*	**0.183**	**0.067**	18.2	680	8.6	8.4		
9/5/2009 1:00	*0.167*	**0.187**	**0.070**	18.1	680	8.6	8.4		
9/5/2009 1:15	*0.163*	**0.183**	**0.067**	18.1	680	8.7	8.4		
9/5/2009 1:30	*0.16*	**0.18**	**0.064**	18.1	680	8.6	8.4		
9/5/2009 1:45	*0.167*	**0.187**	**0.070**	18	682	8.6	8.4		
9/5/2009 2:00	*0.167*	**0.187**	**0.070**	18	682	8.7	8.4		
9/5/2009 2:15	*0.16*	**0.18**	**0.064**	18	682	8.7	8.4		
9/5/2009 2:30	*0.166*	**0.186**	**0.069**	17.9	682	8.7	8.4		
9/5/2009 2:45	*0.167*	**0.187**	**0.070**	17.9	682	8.7	8.4		
9/5/2009 3:00	*0.166*	**0.186**	**0.069**	17.9	682	8.7	8.4		
9/5/2009 3:15	*0.165*	**0.185**	**0.068**	17.8	682	8.7	8.4		
9/5/2009 3:30	*0.164*	**0.184**	**0.067**	17.8	682	8.7	8.4		
9/5/2009 3:45	*0.163*	**0.183**	**0.067**	17.8	682	8.7	8.4		
9/5/2009 4:00	*0.167*	**0.187**	**0.070**	17.7	682	8.7	8.4		
9/5/2009 4:15	*0.165*	**0.185**	**0.068**	17.7	682	8.7	8.4		
9/5/2009 4:30	*0.166*	**0.186**	**0.069**	17.7	682	8.7	8.4		
9/5/2009 4:45	*0.165*	**0.185**	**0.068**	17.6	682	8.8	8.4		
9/5/2009 5:00	*0.162*	**0.182**	**0.066**	17.6	682	8.7	8.4		
9/5/2009 5:15	*0.165*	**0.185**	**0.068**	17.6	682	8.8	8.4		
9/5/2009 5:30	*0.168*	**0.188**	**0.071**	17.5	682	8.8	8.4		
9/5/2009 5:45	*0.171*	**0.191**	**0.073**	17.5	682	8.8	8.4		
9/5/2009 6:00	*0.164*	**0.184**	**0.067**	17.5	684	8.8	8.4		
9/5/2009 6:15	*0.165*	**0.185**	**0.068**	17.4	682	8.8	8.4		
9/5/2009 6:30	*0.165*	**0.185**	**0.068**	17.4	684	8.8	8.4		
9/5/2009 6:45	*0.165*	**0.185**	**0.068**	17.4	684	8.8	8.4		
9/5/2009 7:00	*0.168*	**0.188**	**0.071**	17.3	684	8.9	8.4		
9/5/2009 7:15	*0.168*	**0.188**	**0.071**	17.3	684	8.9	8.4		
9/5/2009 7:30	*0.17*	**0.19**	**0.072**	17.3	684	8.9	8.4		
9/5/2009 7:45	*0.172*	**0.192**	**0.074**	17.3	684	8.9	8.4		
9/5/2009 8:00	*0.171*	**0.191**	**0.073**	17.3	684	9	8.4		
9/5/2009 8:15	*0.168*	**0.188**	**0.071**	17.3	684	9	8.4		
9/5/2009 8:30	*0.163*	**0.183**	**0.067**	17.3	684	9	8.4		
9/5/2009 8:45	*0.169*	**0.189**	**0.071**	17.4	684	9	8.5		
9/5/2009 9:00	*0.164*	**0.184**	**0.067**	17.5	684	9	8.5		
9/5/2009 9:15	*0.164*	**0.184**	**0.067**	17.6	684	9.1	8.5		
9/5/2009 9:30	*0.168*	**0.188**	**0.071**	17.7	684	9.1	8.5		
9/5/2009 9:45	*0.161*	**0.181**	**0.065**	17.9	682	9	8.5		
9/5/2009 10:00	*0.166*	**0.186**	**0.069**	18.2	684	9	8.5		
9/5/2009 10:15	*0.17*	**0.19**	**0.072**	18.5	684	9	8.5		
9/5/2009 10:30	*0.17*	**0.19**	**0.072**	18.9	684	8.9	8.5		
9/5/2009 10:45	*0.17*	**0.19**	**0.072**	19.2	684	8.9	8.5		
9/5/2009 11:00	*0.167*	**0.187**	**0.070**	19.5	684	8.9	8.5		
9/5/2009 11:15	*0.172*	**0.192**	**0.074**	19.6	682	8.8	8.5		
9/5/2009 11:30	*0.161*	**0.181**	**0.065**	19.5	682	8.8	8.5		
9/5/2009 11:45	*0.166*	**0.186**	**0.069**	19.4	682	8.8	8.5		
9/5/2009 12:00	*0.165*	**0.185**	**0.068**	19.4	682	8.8	8.5		
9/5/2009 12:15	*0.167*	**0.187**	**0.070**	19.4	682	8.8	8.5		
9/5/2009 12:30	*0.166*	**0.186**	**0.069**	19.5	682	8.8	8.5		
9/5/2009 12:45	*0.172*	**0.192**	**0.074**	19.7	682	8.8	8.5		
9/5/2009 13:00	*0.165*	**0.185**	**0.068**	19.7	682	8.8	8.5		
9/5/2009 13:15	*0.166*	**0.186**	**0.069**	19.8	680	8.7	8.5		
9/5/2009 13:30	*0.159*	**0.179**	**0.064**	19.8	680	8.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/5/2009 13:45	*0.157*	**0.177**	**0.062**	19.8	682	8.7	8.5		
9/5/2009 14:00	*0.163*	**0.183**	**0.067**	19.8	680	8.7	8.5		
9/5/2009 14:15	*0.161*	**0.181**	**0.065**	19.9	680	8.7	8.5		
9/5/2009 14:30	*0.164*	**0.184**	**0.067**	19.9	680	8.6	8.5		
9/5/2009 14:45	*0.161*	**0.181**	**0.065**	20	680	8.6	8.5		
9/5/2009 15:00	*0.155*	**0.175**	**0.061**	20	680	8.6	8.5		
9/5/2009 15:15	*0.16*	**0.18**	**0.064**	20.1	680	8.6	8.5		
9/5/2009 15:30	*0.162*	**0.182**	**0.066**	20.1	680	8.6	8.5		15:36
9/5/2009 15:45	*0.169*	**0.189**	**0.071**	20.1	680	8.6	8.5		
9/5/2009 16:00	*0.159*	**0.179**	**0.064**	20.1	682	8.5	8.5		
9/5/2009 16:15	*0.157*	**0.177**	**0.062**	20.1	682	8.5	8.5		
9/5/2009 16:30	*0.158*	**0.178**	**0.063**	20.1	680	8.5	8.5		
9/5/2009 16:45	*0.161*	**0.181**	**0.065**	20	680	8.5	8.5		
9/5/2009 17:00	*0.161*	**0.181**	**0.065**	20	680	8.5	8.5		
9/5/2009 17:15	*0.161*	**0.181**	**0.065**	20	680	8.4	8.5		
9/5/2009 17:30	*0.165*	**0.185**	**0.068**	20	680	8.4	8.5		
9/5/2009 17:45	*0.163*	**0.183**	**0.067**	20	682	8.4	8.5		
9/5/2009 18:00	*0.163*	**0.183**	**0.067**	19.9	682	8.4	8.4		
9/5/2009 18:15	*0.162*	**0.182**	**0.066**	19.9	682	8.4	8.4		
9/5/2009 18:30	*0.156*	**0.176**	**0.061**	19.8	682	8.4	8.4		
9/5/2009 18:45	*0.159*	**0.179**	**0.064**	19.7	682	8.3	8.4		
9/5/2009 19:00	*0.157*	**0.177**	**0.062**	19.7	686	8.4	8.4		
9/5/2009 19:15	*0.162*	**0.182**	**0.066**	19.6	686	8.3	8.4		
9/5/2009 19:30	*0.163*	**0.183**	**0.067**	19.6	686	8.4	8.4		
9/5/2009 19:45	*0.165*	**0.185**	**0.068**	19.5	688	8.4	8.4		
9/5/2009 20:00	*0.159*	**0.179**	**0.064**	19.4	686	8.4	8.4		
9/5/2009 20:15	*0.157*	**0.177**	**0.062**	19.4	686	8.4	8.4		
9/5/2009 20:30	*0.165*	**0.185**	**0.068**	19.3	688	8.4	8.4		
9/5/2009 20:45	*0.168*	**0.188**	**0.071**	19.2	688	8.4	8.4		
9/5/2009 21:00	*0.155*	**0.175**	**0.061**	19.2	688	8.4	8.4		
9/5/2009 21:15	*0.163*	**0.183**	**0.067**	19.1	688	8.4	8.4		
9/5/2009 21:30	*0.158*	**0.178**	**0.063**	19.1	688	8.5	8.4		
9/5/2009 21:45	*0.16*	**0.18**	**0.064**	19	688	8.5	8.4		
9/5/2009 22:00	*0.159*	**0.179**	**0.064**	19	688	8.5	8.4		
9/5/2009 22:15	*0.157*	**0.177**	**0.062**	18.9	688	8.5	8.4		
9/5/2009 22:30	*0.161*	**0.181**	**0.065**	18.9	690	8.5	8.4		
9/5/2009 22:45	*0.163*	**0.183**	**0.067**	18.8	690	8.5	8.4		
9/5/2009 23:00	*0.155*	**0.175**	**0.061**	18.8	690	8.5	8.4		
9/5/2009 23:15	*0.161*	**0.181**	**0.065**	18.7	690	8.5	8.4		
9/5/2009 23:30	*0.166*	**0.186**	**0.069**	18.7	690	8.5	8.4		
9/5/2009 23:45	*0.163*	**0.183**	**0.067**	18.7	690	8.5	8.4		
9/6/2009 0:00	*0.17*	**0.19**	**0.072**	18.6	692	8.5	8.4		
9/6/2009 0:15	*0.161*	**0.181**	**0.065**	18.6	692	8.5	8.4		
9/6/2009 0:30	*0.163*	**0.183**	**0.067**	18.6	692	8.5	8.4		
9/6/2009 0:45	*0.162*	**0.182**	**0.066**	18.5	692	8.6	8.4		
9/6/2009 1:00	*0.157*	**0.177**	**0.062**	18.5	692	8.6	8.4		
9/6/2009 1:15	*0.158*	**0.178**	**0.063**	18.5	692	8.6	8.4		
9/6/2009 1:30	*0.161*	**0.181**	**0.065**	18.4	692	8.6	8.4		
9/6/2009 1:45	*0.161*	**0.181**	**0.065**	18.4	692	8.6	8.4		
9/6/2009 2:00	*0.158*	**0.178**	**0.063**	18.3	692	8.6	8.4		
9/6/2009 2:15	*0.165*	**0.185**	**0.068**	18.3	692	8.6	8.4		
9/6/2009 2:30	*0.157*	**0.177**	**0.062**	18.3	692	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/6/2009 2:45	*0.155*	**0.175**	**0.061**	18.3	692	8.6	8.4		
9/6/2009 3:00	*0.161*	**0.181**	**0.065**	18.3	692	8.6	8.4		
9/6/2009 3:15	*0.163*	**0.183**	**0.067**	18.2	694	8.6	8.4		
9/6/2009 3:30	*0.158*	**0.178**	**0.063**	18.2	694	8.6	8.4		
9/6/2009 3:45	*0.164*	**0.184**	**0.067**	18.2	694	8.7	8.4		
9/6/2009 4:00	*0.164*	**0.184**	**0.067**	18.2	694	8.6	8.4		
9/6/2009 4:15	*0.159*	**0.179**	**0.064**	18.2	694	8.7	8.4		
9/6/2009 4:30	*0.159*	**0.179**	**0.064**	18.2	694	8.6	8.4		
9/6/2009 4:45	*0.164*	**0.184**	**0.067**	18.2	694	8.7	8.4		
9/6/2009 5:00	*0.169*	**0.189**	**0.071**	18.1	696	8.7	8.4		
9/6/2009 5:15	*0.169*	**0.189**	**0.071**	18.1	696	8.7	8.4		
9/6/2009 5:30	*0.163*	**0.183**	**0.067**	18.1	696	8.7	8.4		
9/6/2009 5:45	*0.161*	**0.181**	**0.065**	18.1	696	8.7	8.4		
9/6/2009 6:00	*0.162*	**0.182**	**0.066**	18.1	696	8.7	8.4		
9/6/2009 6:15	*0.16*	**0.18**	**0.064**	18.1	696	8.7	8.4		
9/6/2009 6:30	*0.16*	**0.18**	**0.064**	18.1	696	8.7	8.4		
9/6/2009 6:45	*0.16*	**0.18**	**0.064**	18.1	696	8.7	8.4		
9/6/2009 7:00	*0.163*	**0.183**	**0.067**	18.1	696	8.7	8.4		
9/6/2009 7:15	*0.168*	**0.188**	**0.071**	18.1	694	8.7	8.4		
9/6/2009 7:30	*0.166*	**0.186**	**0.069**	18.1	694	8.7	8.4		
9/6/2009 7:45	*0.163*	**0.183**	**0.067**	18.1	694	8.7	8.4		
9/6/2009 8:00	*0.165*	**0.185**	**0.068**	18.1	694	8.8	8.4		
9/6/2009 8:15	*0.163*	**0.183**	**0.067**	18.1	694	8.8	8.4		
9/6/2009 8:30	*0.168*	**0.188**	**0.071**	18.2	694	8.8	8.4		
9/6/2009 8:45	*0.164*	**0.184**	**0.067**	18.2	692	8.8	8.4		
9/6/2009 9:00	*0.163*	**0.183**	**0.067**	18.2	690	8.8	8.4		
9/6/2009 9:15	*0.171*	**0.191**	**0.073**	18.3	692	8.8	8.4		
9/6/2009 9:30	*0.164*	**0.184**	**0.067**	18.3	690	8.9	8.4		
9/6/2009 9:45	*0.166*	**0.186**	**0.069**	18.4	690	8.9	8.5		
9/6/2009 10:00	*0.161*	**0.181**	**0.065**	18.5	688	8.9	8.5		
9/6/2009 10:15	*0.165*	**0.185**	**0.068**	18.6	688	8.9	8.5		
9/6/2009 10:30	*0.167*	**0.187**	**0.070**	18.6	686	8.9	8.5		
9/6/2009 10:45	*0.161*	**0.181**	**0.065**	18.7	686	8.9	8.5		
9/6/2009 11:00	*0.168*	**0.188**	**0.071**	18.7	686	8.9	8.5		
9/6/2009 11:15	*0.167*	**0.187**	**0.070**	18.8	686	8.9	8.5		
9/6/2009 11:30	*0.158*	**0.178**	**0.063**	18.9	686	8.9	8.5		
9/6/2009 11:45	*0.164*	**0.184**	**0.067**	18.9	684	8.8	8.5		
9/6/2009 12:00	*0.164*	**0.184**	**0.067**	19	684	8.8	8.5		
9/6/2009 12:15	*0.163*	**0.183**	**0.067**	19	684	8.8	8.5		
9/6/2009 12:30	*0.178*	**0.198**	**0.079**	19	684	8.8	8.5		
9/6/2009 12:45	*0.161*	**0.181**	**0.065**	19.1	682	8.8	8.5		
9/6/2009 13:00	*0.165*	**0.185**	**0.068**	19.2	682	8.8	8.5		
9/6/2009 13:15	*0.159*	**0.179**	**0.064**	19.3	680	8.8	8.5		
9/6/2009 13:30	*0.163*	**0.183**	**0.067**	19.4	682	8.8	8.5		
9/6/2009 13:45	*0.171*	**0.191**	**0.073**	19.4	680	8.8	8.5		
9/6/2009 14:00	*0.163*	**0.183**	**0.067**	19.4	680	8.8	8.5		
9/6/2009 14:15	*0.168*	**0.188**	**0.071**	19.6	680	8.8	8.5		
9/6/2009 14:30	*0.158*	**0.178**	**0.063**	19.7	682	8.8	8.5		
9/6/2009 14:45	*0.163*	**0.183**	**0.067**	19.8	680	8.7	8.6		
9/6/2009 15:00	*0.158*	**0.178**	**0.063**	19.8	680	8.7	8.6		
9/6/2009 15:15	*0.161*	**0.181**	**0.065**	19.8	680	8.6	8.5		
9/6/2009 15:30	*0.161*	**0.181**	**0.065**	19.7	680	8.6	8.5		15:36

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/6/2009 15:45	*0.166*	**0.186**	**0.069**	19.7	678	8.6	8.5		
9/6/2009 16:00	*0.161*	**0.181**	**0.065**	19.8	678	8.6	8.5		
9/6/2009 16:15	*0.163*	**0.183**	**0.067**	19.8	678	8.6	8.5		
9/6/2009 16:30	*0.169*	**0.189**	**0.071**	19.9	676	8.6	8.5		
9/6/2009 16:45	*0.162*	**0.182**	**0.066**	19.9	678	8.6	8.5		
9/6/2009 17:00	*0.165*	**0.185**	**0.068**	19.9	676	8.5	8.5		
9/6/2009 17:15	*0.167*	**0.187**	**0.070**	19.9	676	8.5	8.5		
9/6/2009 17:30	*0.165*	**0.185**	**0.068**	19.8	676	8.5	8.5		
9/6/2009 17:45	*0.164*	**0.184**	**0.067**	19.8	678	8.4	8.5		
9/6/2009 18:00	*0.163*	**0.183**	**0.067**	19.7	678	8.4	8.5		
9/6/2009 18:15	*0.169*	**0.189**	**0.071**	19.7	680	8.4	8.5		
9/6/2009 18:30	*0.167*	**0.187**	**0.070**	19.6	682	8.4	8.5		
9/6/2009 18:45	*0.165*	**0.185**	**0.068**	19.6	682	8.4	8.5		
9/6/2009 19:00	*0.173*	**0.193**	**0.075**	19.5	680	8.4	8.5		
9/6/2009 19:15	*0.171*	**0.191**	**0.073**	19.5	684	8.4	8.5		
9/6/2009 19:30	*0.163*	**0.183**	**0.067**	19.4	682	8.4	8.4		
9/6/2009 19:45	*0.163*	**0.183**	**0.067**	19.4	682	8.4	8.4		
9/6/2009 20:00	*0.167*	**0.187**	**0.070**	19.4	684	8.4	8.4		
9/6/2009 20:15	*0.158*	**0.178**	**0.063**	19.3	682	8.4	8.4		
9/6/2009 20:30	*0.16*	**0.18**	**0.064**	19.3	682	8.4	8.4		
9/6/2009 20:45	*0.16*	**0.18**	**0.064**	19.2	682	8.4	8.4		
9/6/2009 21:00	*0.163*	**0.183**	**0.067**	19.2	682	8.4	8.4		
9/6/2009 21:15	*0.161*	**0.181**	**0.065**	19.2	682	8.4	8.4		
9/6/2009 21:30	*0.168*	**0.188**	**0.071**	19.1	682	8.4	8.4		
9/6/2009 21:45	*0.161*	**0.181**	**0.065**	19.1	682	8.4	8.4		
9/6/2009 22:00	*0.161*	**0.181**	**0.065**	19.1	682	8.5	8.4		
9/6/2009 22:15	*0.162*	**0.182**	**0.066**	19	682	8.5	8.4		
9/6/2009 22:30	*0.161*	**0.181**	**0.065**	19	682	8.4	8.4		
9/6/2009 22:45	*0.162*	**0.182**	**0.066**	19	682	8.5	8.4		
9/6/2009 23:00	*0.165*	**0.185**	**0.068**	18.9	682	8.5	8.4		
9/6/2009 23:15	*0.166*	**0.186**	**0.069**	18.9	684	8.5	8.4		
9/6/2009 23:30	*0.162*	**0.182**	**0.066**	18.9	684	8.5	8.4		
9/6/2009 23:45	*0.166*	**0.186**	**0.069**	18.8	684	8.5	8.4		
9/7/2009 0:00	*0.163*	**0.183**	**0.067**	18.8	684	8.5	8.4		
9/7/2009 0:15	*0.163*	**0.183**	**0.067**	18.8	684	8.5	8.4		
9/7/2009 0:30	*0.167*	**0.187**	**0.070**	18.7	684	8.5	8.4		
9/7/2009 0:45	*0.164*	**0.184**	**0.067**	18.7	684	8.5	8.4		
9/7/2009 1:00	*0.167*	**0.187**	**0.070**	18.7	684	8.5	8.4		
9/7/2009 1:15	*0.165*	**0.185**	**0.068**	18.6	686	8.6	8.4		
9/7/2009 1:30	*0.163*	**0.183**	**0.067**	18.6	686	8.6	8.4		
9/7/2009 1:45	*0.163*	**0.183**	**0.067**	18.6	686	8.6	8.4		
9/7/2009 2:00	*0.165*	**0.185**	**0.068**	18.6	686	8.5	8.4		
9/7/2009 2:15	*0.169*	**0.189**	**0.071**	18.5	686	8.6	8.4		
9/7/2009 2:30	*0.163*	**0.183**	**0.067**	18.5	686	8.5	8.4		
9/7/2009 2:45	*0.165*	**0.185**	**0.068**	18.5	686	8.6	8.4		
9/7/2009 3:00	*0.164*	**0.184**	**0.067**	18.5	686	8.6	8.4		
9/7/2009 3:15	*0.167*	**0.187**	**0.070**	18.5	688	8.6	8.4		
9/7/2009 3:30	*0.167*	**0.187**	**0.070**	18.4	688	8.6	8.4		
9/7/2009 3:45	*0.162*	**0.182**	**0.066**	18.4	688	8.6	8.4		
9/7/2009 4:00	*0.162*	**0.182**	**0.066**	18.4	688	8.6	8.4		
9/7/2009 4:15	*0.166*	**0.186**	**0.069**	18.4	688	8.6	8.4		
9/7/2009 4:30	*0.167*	**0.187**	**0.070**	18.4	688	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/7/2009 4:45	*0.168*	**0.188**	**0.071**	18.3	688	8.6	8.4		
9/7/2009 5:00	*0.168*	**0.188**	**0.071**	18.3	688	8.6	8.4		
9/7/2009 5:15	*0.17*	**0.19**	**0.072**	18.3	688	8.6	8.4		
9/7/2009 5:30	*0.166*	**0.186**	**0.069**	18.3	688	8.6	8.4		
9/7/2009 5:45	*0.168*	**0.188**	**0.071**	18.2	688	8.6	8.4		
9/7/2009 6:00	*0.164*	**0.184**	**0.067**	18.2	690	8.6	8.4		
9/7/2009 6:15	*0.17*	**0.19**	**0.072**	18.2	690	8.6	8.4		
9/7/2009 6:30	*0.166*	**0.186**	**0.069**	18.2	690	8.7	8.4		
9/7/2009 6:45	*0.169*	**0.189**	**0.071**	18.2	690	8.7	8.4		
9/7/2009 7:00	*0.174*	**0.194**	**0.076**	18.2	690	8.7	8.4		
9/7/2009 7:15	*0.17*	**0.19**	**0.072**	18.2	690	8.7	8.4		
9/7/2009 7:30	*0.167*	**0.187**	**0.070**	18.2	692	8.7	8.4		
9/7/2009 7:45	*0.165*	**0.185**	**0.068**	18.2	690	8.7	8.4		
9/7/2009 8:00	*0.167*	**0.187**	**0.070**	18.2	690	8.7	8.4		
9/7/2009 8:15	*0.167*	**0.187**	**0.070**	18.2	690	8.8	8.4		
9/7/2009 8:30	*0.167*	**0.187**	**0.070**	18.3	690	8.8	8.5		
9/7/2009 8:45	*0.172*	**0.192**	**0.074**	18.4	690	8.9	8.5		
9/7/2009 9:00	*0.172*	**0.192**	**0.074**	18.4	690	8.9	8.5		
9/7/2009 9:15	*0.168*	**0.188**	**0.071**	18.5	688	8.8	8.5		
9/7/2009 9:30	*0.166*	**0.186**	**0.069**	18.6	690	8.9	8.5		
9/7/2009 9:45	*0.166*	**0.186**	**0.069**	18.7	688	8.9	8.5		
9/7/2009 10:00	*0.17*	**0.19**	**0.072**	18.8	688	8.9	8.5		
9/7/2009 10:15	*0.167*	**0.187**	**0.070**	18.9	686	8.9	8.5		
9/7/2009 10:30	*0.169*	**0.189**	**0.071**	19.1	686	8.9	8.5		
9/7/2009 10:45	*0.167*	**0.187**	**0.070**	19.4	686	8.8	8.5		
9/7/2009 11:00	*0.17*	**0.19**	**0.072**	19.7	688	8.8	8.5		
9/7/2009 11:15	*0.173*	**0.193**	**0.075**	20	696	8.8	8.6		
9/7/2009 11:30	*0.172*	**0.192**	**0.074**	20.1	696	8.7	8.6		
9/7/2009 11:45	*0.173*	**0.193**	**0.075**	20.2	696	8.7	8.6		
9/7/2009 12:00	*0.172*	**0.192**	**0.074**	20.3	696	8.7	8.6		
9/7/2009 12:15	*0.171*	**0.191**	**0.073**	20.5	696	8.7	8.6		
9/7/2009 12:30	*0.171*	**0.191**	**0.073**	20.6	696	8.6	8.6		
9/7/2009 12:45	*0.172*	**0.192**	**0.074**	20.5	696	8.6	8.6		
9/7/2009 13:00	*0.173*	**0.193**	**0.075**	20.5	696	8.6	8.6		
9/7/2009 13:15	*0.168*	**0.188**	**0.071**	20.4	696	8.6	8.6		
9/7/2009 13:30	*0.17*	**0.19**	**0.072**	20.3	696	8.5	8.6		
9/7/2009 13:45	*0.175*	**0.195**	**0.077**	20	680	8.4	8.6		
9/7/2009 14:00	*0.187*	**0.207**	**0.088**	19.8	638	8.3	8.5		14:01
9/7/2009 14:15	*0.191*	**0.211**	**0.092**	19.7	634	8.3	8.4		14:16
9/7/2009 14:30	*0.207*	**0.227**	**0.111**	19.6	624	8.2	8.4		14:31
9/7/2009 14:45	*0.208*	**0.228**	**0.112**	19.6	624	8.4	8.3		14:46
9/7/2009 15:00	*0.212*	**0.232**	**0.118**	19.6	610	8.4	8.3		15:01
9/7/2009 15:15	*0.215*	**0.235**	**0.122**	19.6	610	8.4	8.3		15:16
9/7/2009 15:30	*0.217*	**0.237**	**0.125**	19.5	626	8.4	8.4		15:31
9/7/2009 15:45	*0.214*	**0.234**	**0.120**	19.5	628	8.4	8.4	* (3)	*15:36
9/7/2009 16:00	*0.241*	**0.261**	**0.165**	19.4	622	8.5	8.5		15:46
9/7/2009 16:15	*0.242*	**0.262**	**0.167**	19.3	610	8.5	8.5		16:01
9/7/2009 16:30	*0.225*	**0.245**	**0.137**	19.2	608	8.5	8.5		16:16
9/7/2009 16:45	*0.217*	**0.237**	**0.125**	19.2	610	8.6	8.5		16:31
9/7/2009 17:00	*0.215*	**0.235**	**0.122**	19.1	606	8.6	8.5		16:46
9/7/2009 17:15	*0.222*	**0.242**	**0.132**	19.1	594	8.6	8.5		
9/7/2009 17:30	*0.215*	**0.235**	**0.122**	19	570	8.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/7/2009 17:45	*0.208*	**0.228**	**0.112**	19	550	8.6	8.5		
9/7/2009 18:00	*0.217*	**0.237**	**0.125**	18.9	538	8.6	8.5		
9/7/2009 18:15	*0.208*	**0.228**	**0.112**	18.9	530	8.6	8.4		
9/7/2009 18:30	*0.211*	**0.231**	**0.116**	18.9	526	8.5	8.4		
9/7/2009 18:45	*0.2*	**0.22**	**0.102**	18.8	522	8.5	8.4		
9/7/2009 19:00	*0.201*	**0.221**	**0.104**	18.8	516	8.5	8.4		
9/7/2009 19:15	*0.2*	**0.22**	**0.102**	18.8	508	8.5	8.4		
9/7/2009 19:30	*0.2*	**0.22**	**0.102**	18.7	500	8.5	8.4		
9/7/2009 19:45	*0.201*	**0.221**	**0.104**	18.7	492	8.5	8.3		
9/7/2009 20:00	*0.204*	**0.224**	**0.107**	18.7	486	8.5	8.3		
9/7/2009 20:15	*0.198*	**0.218**	**0.100**	18.6	480	8.5	8.3		
9/7/2009 20:30	*0.198*	**0.218**	**0.100**	18.6	476	8.5	8.4		
9/7/2009 20:45	*0.19*	**0.21**	**0.091**	18.6	474	8.6	8.3		
9/7/2009 21:00	*0.197*	**0.217**	**0.099**	18.5	472	8.5	8.4		
9/7/2009 21:15	*0.196*	**0.216**	**0.098**	18.5	474	8.5	8.4		
9/7/2009 21:30	*0.189*	**0.209**	**0.090**	18.5	476	8.6	8.4		
9/7/2009 21:45	*0.19*	**0.21**	**0.091**	18.5	478	8.5	8.4		
9/7/2009 22:00	*0.19*	**0.21**	**0.091**	18.4	480	8.6	8.4		
9/7/2009 22:15	*0.188*	**0.208**	**0.089**	18.4	484	8.6	8.4		
9/7/2009 22:30	*0.184*	**0.204**	**0.085**	18.4	486	8.6	8.4		
9/7/2009 22:45	*0.184*	**0.204**	**0.085**	18.4	490	8.6	8.4		
9/7/2009 23:00	*0.187*	**0.207**	**0.088**	18.4	494	8.6	8.4		
9/7/2009 23:15	*0.18*	**0.2**	**0.081**	18.3	496	8.6	8.4		
9/7/2009 23:30	*0.186*	**0.206**	**0.087**	18.3	500	8.6	8.4		
9/7/2009 23:45	*0.183*	**0.203**	**0.084**	18.3	504	8.6	8.4		
9/8/2009 0:00	*0.177*	**0.197**	**0.078**	18.3	506	8.6	8.4		
9/8/2009 0:15	*0.179*	**0.199**	**0.080**	18.2	510	8.6	8.4		
9/8/2009 0:30	*0.184*	**0.204**	**0.085**	18.2	514	8.6	8.4		
9/8/2009 0:45	*0.18*	**0.2**	**0.081**	18.2	518	8.6	8.4		
9/8/2009 1:00	*0.178*	**0.198**	**0.079**	18.2	520	8.6	8.4		
9/8/2009 1:15	*0.179*	**0.199**	**0.080**	18.1	524	8.6	8.4		
9/8/2009 1:30	*0.181*	**0.201**	**0.082**	18.1	528	8.6	8.4		
9/8/2009 1:45	*0.185*	**0.205**	**0.086**	18.1	532	8.6	8.4		
9/8/2009 2:00	*0.176*	**0.196**	**0.077**	18	534	8.6	8.4		
9/8/2009 2:15	*0.178*	**0.198**	**0.079**	18	538	8.6	8.4		
9/8/2009 2:30	*0.18*	**0.2**	**0.081**	18	540	8.6	8.4		
9/8/2009 2:45	*0.172*	**0.192**	**0.074**	18	544	8.7	8.4		
9/8/2009 3:00	*0.178*	**0.198**	**0.079**	17.9	546	8.7	8.4		
9/8/2009 3:15	*0.175*	**0.195**	**0.077**	17.9	550	8.7	8.4		
9/8/2009 3:30	*0.183*	**0.203**	**0.084**	17.9	552	8.7	8.4		
9/8/2009 3:45	*0.168*	**0.188**	**0.071**	17.9	554	8.7	8.4		
9/8/2009 4:00	*0.173*	**0.193**	**0.075**	17.8	556	8.7	8.4		
9/8/2009 4:15	*0.178*	**0.198**	**0.079**	17.8	558	8.7	8.4		
9/8/2009 4:30	*0.168*	**0.188**	**0.071**	17.8	562	8.7	8.4		
9/8/2009 4:45	*0.168*	**0.188**	**0.071**	17.8	564	8.7	8.4		
9/8/2009 5:00	*0.177*	**0.197**	**0.078**	17.7	566	8.7	8.5		
9/8/2009 5:15	*0.164*	**0.184**	**0.067**	17.7	568	8.7	8.4		
9/8/2009 5:30	*0.17*	**0.19**	**0.072**	17.7	570	8.7	8.4		
9/8/2009 5:45	*0.167*	**0.187**	**0.070**	17.7	572	8.8	8.4		
9/8/2009 6:00	*0.165*	**0.185**	**0.068**	17.6	574	8.8	8.5		
9/8/2009 6:15	*0.164*	**0.184**	**0.067**	17.6	576	8.8	8.5		
9/8/2009 6:30	*0.168*	**0.188**	**0.071**	17.6	578	8.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/8/2009 6:45	*0.167*	**0.187**	**0.070**	17.6	580	8.8	8.5		
9/8/2009 7:00	*0.172*	**0.192**	**0.074**	17.5	582	8.8	8.5		
9/8/2009 7:15	*0.168*	**0.188**	**0.071**	17.5	584	8.8	8.5		
9/8/2009 7:30	*0.166*	**0.186**	**0.069**	17.5	586	8.8	8.5		
9/8/2009 7:45	*0.17*	**0.19**	**0.072**	17.5	586	8.8	8.5		
9/8/2009 8:00	*0.17*	**0.19**	**0.072**	17.5	588	8.9	8.5		
9/8/2009 8:15	*0.17*	**0.19**	**0.072**	17.6	590	8.9	8.5		
9/8/2009 8:30	*0.171*	**0.191**	**0.073**	17.6	590	8.9	8.5		
9/8/2009 8:45	*0.161*	**0.181**	**0.065**	17.6	592	8.9	8.5		
9/8/2009 9:00	*0.161*	**0.181**	**0.065**	17.7	594	8.9	8.5		
9/8/2009 9:15	*0.176*	**0.196**	**0.077**	17.7	594	9	8.5		
9/8/2009 9:30	*0.17*	**0.19**	**0.072**	17.9	596	9	8.5		
9/8/2009 9:45	*0.17*	**0.19**	**0.072**	18.1	596	8.9	8.5		
9/8/2009 10:00	*0.168*	**0.188**	**0.071**	18.4	598	8.9	8.5		
9/8/2009 10:15	*0.159*	**0.179**	**0.064**	18.7	600	8.9	8.5		
9/8/2009 10:30	*0.173*	**0.193**	**0.075**	19	600	8.8	8.5		
9/8/2009 10:45	*0.167*	**0.187**	**0.070**	19.3	602	8.8	8.5		
9/8/2009 11:00	*0.171*	**0.191**	**0.073**	19.6	602	8.7	8.6		
9/8/2009 11:15	*0.177*	**0.197**	**0.078**	19.8	604	8.7	8.6		
9/8/2009 11:30	*0.162*	**0.182**	**0.066**	19.9	604	8.7	8.6		
9/8/2009 11:45	*0.193*	**0.213**	**0.094**	19.8	606	8.7	8.6		
9/8/2009 12:00	*0.212*	**0.232**	**0.118**	19.9	608	8.7	8.6		
9/8/2009 12:15	*0.172*	**0.192**	**0.074**	20.1	608	8.7	8.6		
9/8/2009 12:30	*0.159*	**0.179**	**0.064**	20	608	8.6	8.6		
9/8/2009 12:45	*0.155*	**0.175**	**0.061**	19.9	610	8.6	8.6		
9/8/2009 13:00	*0.18*	**0.2**	**0.081**	19.9	610	8.6	8.6		
9/8/2009 13:15	*0.161*	**0.181**	**0.065**	20	612	8.6	8.6		
9/8/2009 13:30	*0.158*	**0.178**	**0.063**	19.9	612	8.6	8.6		
9/8/2009 13:45	*0.167*	**0.187**	**0.070**	19.8	614	8.6	8.6		
9/8/2009 14:00	*0.172*	**0.192**	**0.074**	19.8	614	8.6	8.6		
9/8/2009 14:15	*0.17*	**0.19**	**0.072**	19.8	616	8.5	8.6		
9/8/2009 14:30	*0.171*	**0.191**	**0.073**	19.8	616	8.5	8.6		
9/8/2009 14:45	*0.173*	**0.193**	**0.075**	19.8	618	8.5	8.6		
9/8/2009 15:00	*0.163*	**0.183**	**0.067**	19.9	620	8.5	8.6		
9/8/2009 15:15	*0.16*	**0.18**	**0.064**	19.9	620	8.5	8.6		
9/8/2009 15:30	*0.165*	**0.185**	**0.068**	19.9	620	8.5	8.6		15:36
9/8/2009 15:45	*0.165*	**0.185**	**0.068**	19.9	622	8.5	8.6		
9/8/2009 16:00	*0.162*	**0.182**	**0.066**	19.9	622	8.5	8.6		
9/8/2009 16:15	*0.189*	**0.209**	**0.090**	19.9	624	8.4	8.6		
9/8/2009 16:30	*0.159*	**0.179**	**0.064**	20	624	8.4	8.6		
9/8/2009 16:45	*0.178*	**0.198**	**0.079**	20.1	626	8.4	8.5		
9/8/2009 17:00	*0.178*	**0.198**	**0.079**	20.1	626	8.4	8.5		
9/8/2009 17:15	*0.157*	**0.177**	**0.062**	20	628	8.4	8.5		
9/8/2009 17:30	*0.18*	**0.2**	**0.081**	20	628	8.4	8.5		
9/8/2009 17:45	*0.161*	**0.181**	**0.065**	19.9	628	8.3	8.5		
9/8/2009 18:00	*0.166*	**0.186**	**0.069**	19.9	630	8.3	8.5		
9/8/2009 18:15	*0.157*	**0.177**	**0.062**	19.8	630	8.4	8.5		
9/8/2009 18:30	*0.162*	**0.182**	**0.066**	19.8	632	8.4	8.5		
9/8/2009 18:45	*0.159*	**0.179**	**0.064**	19.7	632	8.3	8.5		
9/8/2009 19:00	*0.159*	**0.179**	**0.064**	19.7	634	8.4	8.5		
9/8/2009 19:15	*0.164*	**0.184**	**0.067**	19.6	634	8.3	8.5		
9/8/2009 19:30	*0.158*	**0.178**	**0.063**	19.5	636	8.4	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/8/2009 19:45	*0.165*	**0.185**	**0.068**	19.5	638	8.4	8.5		
9/8/2009 20:00	*0.181*	**0.201**	**0.082**	19.4	640	8.4	8.5		
9/8/2009 20:15	*0.166*	**0.186**	**0.069**	19.3	640	8.4	8.5		
9/8/2009 20:30	*0.155*	**0.175**	**0.061**	19.3	642	8.4	8.5		
9/8/2009 20:45	*0.159*	**0.179**	**0.064**	19.2	642	8.4	8.5		
9/8/2009 21:00	*0.157*	**0.177**	**0.062**	19.2	642	8.4	8.5		
9/8/2009 21:15	*0.157*	**0.177**	**0.062**	19.1	644	8.4	8.5		
9/8/2009 21:30	*0.155*	**0.175**	**0.061**	19	644	8.5	8.5		
9/8/2009 21:45	*0.159*	**0.179**	**0.064**	19	644	8.5	8.5		
9/8/2009 22:00	*0.165*	**0.185**	**0.068**	18.9	646	8.5	8.5		
9/8/2009 22:15	*0.167*	**0.187**	**0.070**	18.9	646	8.5	8.5		
9/8/2009 22:30	*0.17*	**0.19**	**0.072**	18.8	646	8.5	8.5		
9/8/2009 22:45	*0.162*	**0.182**	**0.066**	18.8	646	8.5	8.5		
9/8/2009 23:00	*0.165*	**0.185**	**0.068**	18.7	648	8.5	8.5		
9/8/2009 23:15	*0.16*	**0.18**	**0.064**	18.7	648	8.5	8.5		
9/8/2009 23:30	*0.163*	**0.183**	**0.067**	18.6	648	8.6	8.5		
9/8/2009 23:45	*0.174*	**0.194**	**0.076**	18.6	650	8.6	8.5		
9/9/2009 0:00	*0.16*	**0.18**	**0.064**	18.6	650	8.6	8.5		
9/9/2009 0:15	*0.172*	**0.192**	**0.074**	18.5	650	8.6	8.5		
9/9/2009 0:30	*0.145*	**0.165**	**0.054**	18.5	652	8.6	8.5		
9/9/2009 0:45	*0.159*	**0.179**	**0.064**	18.4	652	8.6	8.5		
9/9/2009 1:00	*0.153*	**0.173**	**0.059**	18.4	652	8.6	8.5		
9/9/2009 1:15	*0.157*	**0.177**	**0.062**	18.4	654	8.6	8.5		
9/9/2009 1:30	*0.155*	**0.175**	**0.061**	18.3	654	8.6	8.5		
9/9/2009 1:45	*0.152*	**0.172**	**0.059**	18.3	656	8.6	8.5		
9/9/2009 2:00	*0.148*	**0.168**	**0.056**	18.3	656	8.6	8.5		
9/9/2009 2:15	*0.152*	**0.172**	**0.059**	18.3	656	8.7	8.5		
9/9/2009 2:30	*0.154*	**0.174**	**0.060**	18.2	656	8.7	8.5		
9/9/2009 2:45	*0.154*	**0.174**	**0.060**	18.2	658	8.6	8.5		
9/9/2009 3:00	*0.157*	**0.177**	**0.062**	18.2	658	8.7	8.5		
9/9/2009 3:15	*0.148*	**0.168**	**0.056**	18.2	658	8.7	8.5		
9/9/2009 3:30	*0.141*	**0.161**	**0.052**	18.1	658	8.7	8.5		
9/9/2009 3:45	*0.146*	**0.166**	**0.055**	18.1	660	8.7	8.5		
9/9/2009 4:00	*0.153*	**0.173**	**0.059**	18.1	660	8.7	8.5		
9/9/2009 4:15	*0.149*	**0.169**	**0.057**	18	660	8.7	8.5		
9/9/2009 4:30	*0.144*	**0.164**	**0.053**	18	660	8.7	8.5		
9/9/2009 4:45	*0.15*	**0.17**	**0.057**	18	660	8.7	8.5		
9/9/2009 5:00	*0.146*	**0.166**	**0.055**	18	662	8.7	8.5		
9/9/2009 5:15	*0.148*	**0.168**	**0.056**	17.9	662	8.7	8.5		
9/9/2009 5:30	*0.143*	**0.163**	**0.053**	17.9	662	8.7	8.5		
9/9/2009 5:45	*0.142*	**0.162**	**0.052**	17.9	662	8.7	8.5		
9/9/2009 6:00	*0.147*	**0.167**	**0.055**	17.9	664	8.7	8.5		
9/9/2009 6:15	*0.15*	**0.17**	**0.057**	17.8	664	8.8	8.5		
9/9/2009 6:30	*0.139*	**0.159**	**0.050**	17.8	664	8.8	8.5		
9/9/2009 6:45	*0.143*	**0.163**	**0.053**	17.8	664	8.8	8.5		
9/9/2009 7:00	*0.15*	**0.17**	**0.057**	17.8	664	8.8	8.5		
9/9/2009 7:15	*0.15*	**0.17**	**0.057**	17.7	664	8.8	8.5		
9/9/2009 7:30	*0.151*	**0.171**	**0.058**	17.7	664	8.8	8.5		
9/9/2009 7:45	*0.146*	**0.166**	**0.055**	17.8	664	8.9	8.5		
9/9/2009 8:00	*0.146*	**0.166**	**0.055**	17.8	664	8.9	8.5		
9/9/2009 8:15	*0.151*	**0.171**	**0.058**	17.8	664	8.9	8.5		
9/9/2009 8:30	*0.157*	**0.177**	**0.062**	17.8	666	8.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/9/2009 8:45	*0.155*	**0.175**	**0.061**	17.9	666	8.9	8.5		
9/9/2009 9:00	*0.159*	**0.179**	**0.064**	17.9	666	9	8.5		
9/9/2009 9:15	*0.152*	**0.172**	**0.059**	18	666	9	8.5		
9/9/2009 9:30	*0.159*	**0.179**	**0.064**	18.1	666	9	8.6		
9/9/2009 9:45	*0.15*	**0.17**	**0.057**	18.3	668	9	8.6		
9/9/2009 10:00	*0.147*	**0.167**	**0.055**	18.6	666	8.9	8.6		
9/9/2009 10:15	*0.157*	**0.177**	**0.062**	18.9	666	8.9	8.6		
9/9/2009 10:30	*0.153*	**0.173**	**0.059**	19.3	668	8.9	8.6		
9/9/2009 10:45	*0.154*	**0.174**	**0.060**	19.6	668	8.8	8.6		
9/9/2009 11:00	*0.154*	**0.174**	**0.060**	19.9	668	8.8	8.6		
9/9/2009 11:15	*0.155*	**0.175**	**0.061**	20.1	670	8.8	8.6		
9/9/2009 11:30	*0.154*	**0.174**	**0.060**	20	670	8.7	8.6		
9/9/2009 11:45	*0.155*	**0.175**	**0.061**	20	670	8.7	8.6		
9/9/2009 12:00	*0.159*	**0.179**	**0.064**	20	670	8.7	8.6		
9/9/2009 12:15	*0.155*	**0.175**	**0.061**	20.1	670	8.7	8.6		
9/9/2009 12:30	*0.156*	**0.176**	**0.061**	20	670	8.6	8.6		
9/9/2009 12:45	*0.157*	**0.177**	**0.062**	20.1	672	8.7	8.6		
9/9/2009 13:00	*0.157*	**0.177**	**0.062**	20.1	672	8.7	8.6		
9/9/2009 13:15	*0.155*	**0.175**	**0.061**	20.1	672	8.6	8.6		
9/9/2009 13:30	*0.158*	**0.178**	**0.063**	20.1	672	8.6	8.6		
9/9/2009 13:45	*0.157*	**0.177**	**0.062**	20.1	672	8.6	8.6		
9/9/2009 14:00	*0.162*	**0.182**	**0.066**	20	662	8.6	8.6		
9/9/2009 14:15	*0.154*	**0.174**	**0.060**	20	662	8.5	8.6		
9/9/2009 14:30	*0.162*	**0.182**	**0.066**	20	660	8.5	8.6		
9/9/2009 14:45	*0.16*	**0.18**	**0.064**	20	664	8.5	8.6		
9/9/2009 15:00	*0.157*	**0.177**	**0.062**	20	664	8.5	8.6		
9/9/2009 15:15	*0.152*	**0.172**	**0.059**	20	662	8.5	8.6		
9/9/2009 15:30	*0.171*	**0.191**	**0.073**	20	660	8.4	8.6		15:36
9/9/2009 15:45	*0.166*	**0.186**	**0.069**	20	664	8.4	8.6		
9/9/2009 16:00	*0.159*	**0.179**	**0.064**	20	668	8.4	8.6		
9/9/2009 16:15	*0.158*	**0.178**	**0.063**	20	670	8.4	8.6		
9/9/2009 16:30	*0.172*	**0.192**	**0.074**	20.1	672	8.4	8.6		
9/9/2009 16:45	*0.158*	**0.178**	**0.063**	20.1	672	8.4	8.6		
9/9/2009 17:00	*0.16*	**0.18**	**0.064**	20	670	8.3	8.6		
9/9/2009 17:15	*0.155*	**0.175**	**0.061**	20	670	8.4	8.6		
9/9/2009 17:30	*0.153*	**0.173**	**0.059**	19.9	670	8.4	8.5		
9/9/2009 17:45	*0.171*	**0.191**	**0.073**	19.9	668	8.4	8.5		
9/9/2009 18:00	*0.157*	**0.177**	**0.062**	19.8	670	8.4	8.5		
9/9/2009 18:15	*0.163*	**0.183**	**0.067**	19.8	670	8.4	8.5		
9/9/2009 18:30	*0.154*	**0.174**	**0.060**	19.7	670	8.4	8.5		
9/9/2009 18:45	*0.187*	**0.207**	**0.088**	19.6	670	8.4	8.5		
9/9/2009 19:00	*0.15*	**0.17**	**0.057**	19.6	670	8.4	8.5		
9/9/2009 19:15	*0.164*	**0.184**	**0.067**	19.5	672	8.4	8.5		
9/9/2009 19:30	*0.157*	**0.177**	**0.062**	19.4	672	8.4	8.5		
9/9/2009 19:45	*0.165*	**0.185**	**0.068**	19.4	674	8.4	8.5		
9/9/2009 20:00	*0.152*	**0.172**	**0.059**	19.3	676	8.4	8.5		
9/9/2009 20:15	*0.158*	**0.178**	**0.063**	19.2	676	8.4	8.5		
9/9/2009 20:30	*0.154*	**0.174**	**0.060**	19.1	678	8.4	8.5		
9/9/2009 20:45	*0.152*	**0.172**	**0.059**	19	676	8.5	8.5		
9/9/2009 21:00	*0.152*	**0.172**	**0.059**	19	676	8.5	8.5		
9/9/2009 21:15	*0.153*	**0.173**	**0.059**	18.9	676	8.5	8.5		
9/9/2009 21:30	*0.153*	**0.173**	**0.059**	18.8	674	8.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/9/2009 21:45	*0.154*	**0.174**	**0.060**	18.8	674	8.5	8.5		
9/9/2009 22:00	*0.147*	**0.167**	**0.055**	18.7	672	8.5	8.5		
9/9/2009 22:15	*0.152*	**0.172**	**0.059**	18.6	672	8.6	8.5		
9/9/2009 22:30	*0.151*	**0.171**	**0.058**	18.5	670	8.6	8.5		
9/9/2009 22:45	*0.149*	**0.169**	**0.057**	18.5	670	8.6	8.5		
9/9/2009 23:00	*0.153*	**0.173**	**0.059**	18.4	670	8.6	8.5		
9/9/2009 23:15	*0.15*	**0.17**	**0.057**	18.4	670	8.6	8.5		
9/9/2009 23:30	*0.154*	**0.174**	**0.060**	18.3	670	8.6	8.5		
9/9/2009 23:45	*0.151*	**0.171**	**0.058**	18.2	670	8.7	8.5		
9/10/2009 0:00	*0.148*	**0.168**	**0.056**	18.2	670	8.7	8.5		
9/10/2009 0:15	*0.149*	**0.169**	**0.057**	18.2	670	8.7	8.5		
9/10/2009 0:30	*0.15*	**0.17**	**0.057**	18.1	670	8.7	8.5		
9/10/2009 0:45	*0.15*	**0.17**	**0.057**	18.1	670	8.7	8.5		
9/10/2009 1:00	*0.152*	**0.172**	**0.059**	18.1	670	8.7	8.5		
9/10/2009 1:15	*0.144*	**0.164**	**0.053**	18	672	8.7	8.5		
9/10/2009 1:30	*0.15*	**0.17**	**0.057**	18	672	8.7	8.5		
9/10/2009 1:45	*0.149*	**0.169**	**0.057**	18	674	8.7	8.5		
9/10/2009 2:00	*0.147*	**0.167**	**0.055**	18	674	8.7	8.5		
9/10/2009 2:15	*0.144*	**0.164**	**0.053**	17.9	674	8.7	8.5		
9/10/2009 2:30	*0.142*	**0.162**	**0.052**	17.9	674	8.7	8.5		
9/10/2009 2:45	*0.15*	**0.17**	**0.057**	17.9	674	8.7	8.5		
9/10/2009 3:00	*0.142*	**0.162**	**0.052**	17.9	674	8.7	8.5		
9/10/2009 3:15	*0.151*	**0.171**	**0.058**	17.8	674	8.8	8.5		
9/10/2009 3:30	*0.151*	**0.171**	**0.058**	17.8	674	8.7	8.5		
9/10/2009 3:45	*0.152*	**0.172**	**0.059**	17.8	674	8.7	8.5		
9/10/2009 4:00	*0.153*	**0.173**	**0.059**	17.7	674	8.8	8.5		
9/10/2009 4:15	*0.148*	**0.168**	**0.056**	17.7	676	8.8	8.5		
9/10/2009 4:30	*0.15*	**0.17**	**0.057**	17.7	676	8.8	8.5		
9/10/2009 4:45	*0.158*	**0.178**	**0.063**	17.6	676	8.8	8.5		
9/10/2009 5:00	*0.144*	**0.164**	**0.053**	17.6	676	8.8	8.5		
9/10/2009 5:15	*0.154*	**0.174**	**0.060**	17.6	678	8.8	8.5		
9/10/2009 5:30	*0.148*	**0.168**	**0.056**	17.5	678	8.8	8.5		
9/10/2009 5:45	*0.167*	**0.187**	**0.070**	17.5	678	8.8	8.5		
9/10/2009 6:00	*0.15*	**0.17**	**0.057**	17.5	678	8.8	8.5		
9/10/2009 6:15	*0.149*	**0.169**	**0.057**	17.5	680	8.8	8.5		
9/10/2009 6:30	*0.146*	**0.166**	**0.055**	17.4	680	8.9	8.5		
9/10/2009 6:45	*0.15*	**0.17**	**0.057**	17.4	680	8.9	8.5		
9/10/2009 7:00	*0.147*	**0.167**	**0.055**	17.4	682	8.9	8.5		
9/10/2009 7:15	*0.149*	**0.169**	**0.057**	17.4	680	8.9	8.5		
9/10/2009 7:30	*0.145*	**0.165**	**0.054**	17.4	682	9	8.5		
9/10/2009 7:45	*0.142*	**0.162**	**0.052**	17.4	682	9	8.5		
9/10/2009 8:00	*0.152*	**0.172**	**0.059**	17.4	682	9	8.5		
9/10/2009 8:15	*0.15*	**0.17**	**0.057**	17.4	682	9	8.5		
9/10/2009 8:30	*0.145*	**0.165**	**0.054**	17.4	684	9	8.5		
9/10/2009 8:45	*0.147*	**0.167**	**0.055**	17.5	684	9.1	8.5		
9/10/2009 9:00	*0.144*	**0.164**	**0.053**	17.6	684	9	8.5		
9/10/2009 9:15	*0.165*	**0.185**	**0.068**	17.7	684	9.1	8.6		
9/10/2009 9:30	*0.15*	**0.17**	**0.057**	17.9	684	9	8.6		
9/10/2009 9:45	*0.144*	**0.164**	**0.053**	18.2	684	9	8.6		
9/10/2009 10:00	*0.15*	**0.17**	**0.057**	18.5	686	9	8.6		
9/10/2009 10:15	*0.15*	**0.17**	**0.057**	18.8	686	8.9	8.6		
9/10/2009 10:30	*0.141*	**0.161**	**0.052**	19.1	686	8.9	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/10/2009 10:45	*0.15*	**0.17**	**0.057**	19.4	686	8.9	8.6		
9/10/2009 11:00	*0.149*	**0.169**	**0.057**	19.7	688	8.9	8.6		
9/10/2009 11:15	*0.151*	**0.171**	**0.058**	20	688	8.8	8.6		
9/10/2009 11:30	*0.148*	**0.168**	**0.056**	20	688	8.8	8.6		
9/10/2009 11:45	*0.147*	**0.167**	**0.055**	19.9	688	8.8	8.6		
9/10/2009 12:00	*0.151*	**0.171**	**0.058**	19.9	688	8.8	8.6		
9/10/2009 12:15	*0.138*	**0.158**	**0.050**	19.8	688	8.8	8.6		
9/10/2009 12:30	*0.149*	**0.169**	**0.057**	19.8	690	8.8	8.6		
9/10/2009 12:45	*0.145*	**0.165**	**0.054**	19.9	690	8.8	8.6		
9/10/2009 13:00	*0.149*	**0.169**	**0.057**	19.9	690	8.8	8.6		
9/10/2009 13:15	*0.151*	**0.171**	**0.058**	19.9	690	8.8	8.6		
9/10/2009 13:30	*0.143*	**0.163**	**0.053**	20	690	8.8	8.7		
9/10/2009 13:45	*0.146*	**0.166**	**0.055**	20	690	8.7	8.7		
9/10/2009 14:00	*0.15*	**0.17**	**0.057**	20	690	8.7	8.6		
9/10/2009 14:15	*0.149*	**0.169**	**0.057**	20	692	8.7	8.6		
9/10/2009 14:30	*0.155*	**0.175**	**0.061**	20.1	692	8.7	8.6		
9/10/2009 14:45	*0.141*	**0.161**	**0.052**	20.1	692	8.7	8.6		
9/10/2009 15:00	*0.142*	**0.162**	**0.052**	20.1	692	8.6	8.6		
9/10/2009 15:15	*0.145*	**0.165**	**0.054**	20.1	694	8.6	8.6		
9/10/2009 15:30	*0.143*	**0.163**	**0.053**	20.2	694	8.5	8.6		15:36
9/10/2009 15:45	*0.141*	**0.161**	**0.052**	20.2	694	8.5	8.6		
9/10/2009 16:00	*0.147*	**0.167**	**0.055**	20.1	694	8.5	8.6		
9/10/2009 16:15	*0.141*	**0.161**	**0.052**	20.2	696	8.4	8.6		
9/10/2009 16:30	*0.151*	**0.171**	**0.058**	20.2	696	8.4	8.6		
9/10/2009 16:45	*0.139*	**0.159**	**0.050**	20.3	696	8.4	8.6		
9/10/2009 17:00	*0.139*	**0.159**	**0.050**	20.3	696	8.4	8.6		
9/10/2009 17:15	*0.144*	**0.164**	**0.053**	20.2	698	8.4	8.6		
9/10/2009 17:30	*0.144*	**0.164**	**0.053**	20.2	698	8.4	8.6		
9/10/2009 17:45	*0.138*	**0.158**	**0.050**	20.1	698	8.4	8.6		
9/10/2009 18:00	*0.145*	**0.165**	**0.054**	20	698	8.4	8.6		
9/10/2009 18:15	*0.146*	**0.166**	**0.055**	20	700	8.4	8.5		
9/10/2009 18:30	*0.146*	**0.166**	**0.055**	19.9	700	8.3	8.5		
9/10/2009 18:45	*0.138*	**0.158**	**0.050**	19.8	700	8.4	8.5		
9/10/2009 19:00	*0.139*	**0.159**	**0.050**	19.8	700	8.4	8.5		
9/10/2009 19:15	*0.144*	**0.164**	**0.053**	19.7	702	8.4	8.5		
9/10/2009 19:30	*0.137*	**0.157**	**0.049**	19.7	702	8.4	8.5		
9/10/2009 19:45	*0.137*	**0.157**	**0.049**	19.6	702	8.4	8.5		
9/10/2009 20:00	*0.137*	**0.157**	**0.049**	19.5	702	8.4	8.5		
9/10/2009 20:15	*0.139*	**0.159**	**0.050**	19.5	702	8.4	8.5		
9/10/2009 20:30	*0.142*	**0.162**	**0.052**	19.4	702	8.4	8.5		
9/10/2009 20:45	*0.139*	**0.159**	**0.050**	19.4	704	8.4	8.5		
9/10/2009 21:00	*0.139*	**0.159**	**0.050**	19.3	702	8.4	8.5		
9/10/2009 21:15	*0.148*	**0.168**	**0.056**	19.3	700	8.4	8.5		
9/10/2009 21:30	*0.143*	**0.163**	**0.053**	19.2	700	8.4	8.5		
9/10/2009 21:45	*0.137*	**0.157**	**0.049**	19.2	700	8.4	8.5		
9/10/2009 22:00	*0.139*	**0.159**	**0.050**	19.1	702	8.5	8.5		
9/10/2009 22:15	*0.14*	**0.16**	**0.051**	19.1	702	8.5	8.5		
9/10/2009 22:30	*0.138*	**0.158**	**0.050**	19	702	8.5	8.5		
9/10/2009 22:45	*0.138*	**0.158**	**0.050**	19	702	8.5	8.5		
9/10/2009 23:00	*0.136*	**0.156**	**0.049**	18.9	702	8.5	8.5		
9/10/2009 23:15	*0.133*	**0.153**	**0.047**	18.9	704	8.5	8.5		
9/10/2009 23:30	*0.136*	**0.156**	**0.049**	18.8	704	8.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/10/2009 23:45	*0.133*	**0.153**	**0.047**	18.7	706	8.5	8.5		
9/11/2009 0:00	*0.134*	**0.154**	**0.048**	18.7	706	8.6	8.5		
9/11/2009 0:15	*0.139*	**0.159**	**0.050**	18.7	708	8.6	8.5		
9/11/2009 0:30	*0.144*	**0.164**	**0.053**	18.6	708	8.6	8.5		
9/11/2009 0:45	*0.148*	**0.168**	**0.056**	18.6	708	8.6	8.5		
9/11/2009 1:00	*0.148*	**0.168**	**0.056**	18.5	708	8.6	8.5		
9/11/2009 1:15	*0.152*	**0.172**	**0.059**	18.5	710	8.6	8.5		
9/11/2009 1:30	*0.166*	**0.186**	**0.069**	18.5	710	8.6	8.5		
9/11/2009 1:45	*0.146*	**0.166**	**0.055**	18.5	712	8.6	8.5		
9/11/2009 2:00	*0.145*	**0.165**	**0.054**	18.4	712	8.6	8.5		
9/11/2009 2:15	*0.148*	**0.168**	**0.056**	18.4	712	8.6	8.5		
9/11/2009 2:30	*0.139*	**0.159**	**0.050**	18.4	714	8.6	8.5		
9/11/2009 2:45	*0.153*	**0.173**	**0.059**	18.3	714	8.6	8.5		
9/11/2009 3:00	*0.144*	**0.164**	**0.053**	18.3	714	8.6	8.5		
9/11/2009 3:15	*0.137*	**0.157**	**0.049**	18.3	716	8.7	8.5		
9/11/2009 3:30	*0.149*	**0.169**	**0.057**	18.3	716	8.7	8.5		
9/11/2009 3:45	*0.136*	**0.156**	**0.049**	18.2	716	8.7	8.5		
9/11/2009 4:00	*0.136*	**0.156**	**0.049**	18.2	716	8.7	8.5		
9/11/2009 4:15	*0.138*	**0.158**	**0.050**	18.2	714	8.7	8.5		
9/11/2009 4:30	*0.137*	**0.157**	**0.049**	18.2	714	8.7	8.5		
9/11/2009 4:45	*0.139*	**0.159**	**0.050**	18.2	712	8.7	8.5		
9/11/2009 5:00	*0.141*	**0.161**	**0.052**	18.2	712	8.7	8.5		
9/11/2009 5:15	*0.14*	**0.16**	**0.051**	18.2	710	8.7	8.5		
9/11/2009 5:30	*0.137*	**0.157**	**0.049**	18.1	708	8.7	8.5		
9/11/2009 5:45	*0.141*	**0.161**	**0.052**	18.1	708	8.7	8.5		
9/11/2009 6:00	*0.137*	**0.157**	**0.049**	18.1	708	8.7	8.5		
9/11/2009 6:15	*0.144*	**0.164**	**0.053**	18.1	708	8.7	8.5		
9/11/2009 6:30	*0.14*	**0.16**	**0.051**	18.1	708	8.7	8.5		
9/11/2009 6:45	*0.136*	**0.156**	**0.049**	18.1	708	8.7	8.5		
9/11/2009 7:00	*0.136*	**0.156**	**0.049**	18.1	706	8.7	8.5		
9/11/2009 7:15	*0.138*	**0.158**	**0.050**	18.1	706	8.8	8.5		
9/11/2009 7:30	*0.139*	**0.159**	**0.050**	18.1	708	8.7	8.5		
9/11/2009 7:45	*0.144*	**0.164**	**0.053**	18.1	708	8.8	8.5		
9/11/2009 8:00	*0.138*	**0.158**	**0.050**	18.1	708	8.8	8.5		
9/11/2009 8:15	*0.137*	**0.157**	**0.049**	18.1	710	8.8	8.5		
9/11/2009 8:30	*0.143*	**0.163**	**0.053**	18.2	710	8.9	8.5		
9/11/2009 8:45	*0.136*	**0.156**	**0.049**	18.2	710	8.9	8.5		
9/11/2009 9:00	*0.139*	**0.159**	**0.050**	18.2	710	8.9	8.5		
9/11/2009 9:15	*0.138*	**0.158**	**0.050**	18.3	712	8.9	8.5		
9/11/2009 9:30	*0.139*	**0.159**	**0.050**	18.3	712	8.9	8.5		
9/11/2009 9:45	*0.143*	**0.163**	**0.053**	18.3	712	8.9	8.6		
9/11/2009 10:00	*0.141*	**0.161**	**0.052**	18.4	710	8.9	8.6		
9/11/2009 10:15	*0.138*	**0.158**	**0.050**	18.4	708	8.9	8.6		
9/11/2009 10:30	*0.138*	**0.158**	**0.050**	18.4	708	8.8	8.6		
9/11/2009 10:45	*0.141*	**0.161**	**0.052**	18.5	706	8.9	8.6		
9/11/2009 11:00	*0.137*	**0.157**	**0.049**	18.6	706	8.9	8.6		
9/11/2009 11:15	*0.141*	**0.161**	**0.052**	18.8	706	8.9	8.6		
9/11/2009 11:30	*0.134*	**0.154**	**0.048**	18.8	704	8.9	8.6		
9/11/2009 11:45	*0.139*	**0.159**	**0.050**	18.9	704	8.9	8.6		
9/11/2009 12:00	*0.137*	**0.157**	**0.049**	19	704	8.9	8.6		
9/11/2009 12:15	*0.131*	**0.151**	**0.046**	19.1	704	8.9	8.6		
9/11/2009 12:30	*0.145*	**0.165**	**0.054**	19.1	704	8.9	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/11/2009 12:45	*0.1396*	**0.1596**	**0.051**	19.1	704	8.8	8.6		
9/11/2009 13:00	*0.1397*	**0.1597**	**0.051**	19.3	704	8.8	8.7	* (4)	
9/11/2009 13:15	0.1636	0.1636	0.053	19.3	706	8.8	8.6		
9/11/2009 13:30	0.1655	0.1655	0.054	19.4	706	8.8	8.6		13:29
9/11/2009 13:45	0.161	0.161	0.052	19.6	706	8.9	8.6		
9/11/2009 14:00	0.16	0.16	0.051	19.6	706	8.8	8.6		
9/11/2009 14:15	0.161	0.161	0.052	19.6	706	8.8	8.6		
9/11/2009 14:30	0.164	0.164	0.053	19.6	**728**	8.7	8.6	* (5)	
9/11/2009 14:45	0.166	0.166	0.055	19.7	706	8.7	8.6		
9/11/2009 15:00	0.162	0.162	0.052	19.7	706	8.7	8.6		
9/11/2009 15:15	0.159	0.159	0.050	19.7	706	8.6	8.6		
9/11/2009 15:30	0.161	0.161	0.052	19.8	706	8.6	8.6		
9/11/2009 15:45	0.166	0.166	0.055	19.8	706	8.6	8.6		
9/11/2009 16:00	0.166	0.166	0.055	19.9	706	8.6	8.6		
9/11/2009 16:15	0.161	0.161	0.052	19.9	708	8.5	8.6		
9/11/2009 16:30	0.16	0.16	0.051	19.9	708	8.5	8.5		
9/11/2009 16:45	0.162	0.162	0.052	20	708	8.5	8.5		
9/11/2009 17:00	0.162	0.162	0.052	20	708	8.5	8.5		
9/11/2009 17:15	0.161	0.161	0.052	20	708	8.4	8.5		
9/11/2009 17:30	0.16	0.16	0.051	20	710	8.4	8.5		
9/11/2009 17:45	0.163	0.163	0.053	19.9	708	8.4	8.5		
9/11/2009 18:00	0.162	0.162	0.052	19.9	710	8.4	8.5		
9/11/2009 18:15	0.163	0.163	0.053	19.8	710	8.4	8.5		
9/11/2009 18:30	0.161	0.161	0.052	19.8	710	8.4	8.5		
9/11/2009 18:45	0.159	0.159	0.050	19.7	710	8.4	8.5		
9/11/2009 19:00	0.156	0.156	0.049	19.7	712	8.3	8.5		
9/11/2009 19:15	0.154	0.154	0.048	19.6	712	8.3	8.5		
9/11/2009 19:30	0.161	0.161	0.052	19.6	712	8.4	8.5		
9/11/2009 19:45	0.163	0.163	0.053	19.5	712	8.4	8.5		
9/11/2009 20:00	0.161	0.161	0.052	19.5	712	8.4	8.5		
9/11/2009 20:15	0.166	0.166	0.055	19.4	712	8.4	8.5		
9/11/2009 20:30	0.155	0.155	0.048	19.4	714	8.4	8.5		
9/11/2009 20:45	0.164	0.164	0.053	19.4	714	8.4	8.5		
9/11/2009 21:00	0.159	0.159	0.050	19.3	714	8.4	8.5		
9/11/2009 21:15	0.154	0.154	0.048	19.3	714	8.4	8.5		
9/11/2009 21:30	0.156	0.156	0.049	19.3	714	8.4	8.5		
9/11/2009 21:45	0.158	0.158	0.050	19.2	714	8.4	8.5		
9/11/2009 22:00	0.162	0.162	0.052	19.2	714	8.4	8.5		
9/11/2009 22:15	0.156	0.156	0.049	19.1	714	8.4	8.5		
9/11/2009 22:30	0.16	0.16	0.051	19.1	716	8.5	8.5		
9/11/2009 22:45	0.156	0.156	0.049	19.1	716	8.5	8.5		
9/11/2009 23:00	0.152	0.152	0.046	19.1	716	8.5	8.5		
9/11/2009 23:15	0.159	0.159	0.050	19	716	8.5	8.5		
9/11/2009 23:30	0.151	0.151	0.046	19	716	8.5	8.5		
9/11/2009 23:45	0.156	0.156	0.049	19	716	8.5	8.5		
9/12/2009 0:00	0.155	0.155	0.048	18.9	716	8.5	8.5		
9/12/2009 0:15	0.169	0.169	0.057	18.9	716	8.5	8.5		
9/12/2009 0:30	0.16	0.16	0.051	18.9	718	8.5	8.5		
9/12/2009 0:45	0.169	0.169	0.057	18.8	718	8.5	8.5		
9/12/2009 1:00	0.156	0.156	0.049	18.8	718	8.5	8.5		
9/12/2009 1:15	0.158	0.158	0.050	18.8	718	8.5	8.5		
9/12/2009 1:30	0.159	0.159	0.050	18.8	718	8.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/12/2009 1:45	0.151	0.151	0.046	18.8	718	8.5	8.5		
9/12/2009 2:00	0.152	0.152	0.046	18.8	718	8.5	8.5		
9/12/2009 2:15	0.154	0.154	0.048	18.7	718	8.6	8.5		
9/12/2009 2:30	0.154	0.154	0.048	18.7	718	8.5	8.5		
9/12/2009 2:45	0.153	0.153	0.047	18.7	718	8.5	8.5		
9/12/2009 3:00	0.159	0.159	0.050	18.7	718	8.5	8.5		
9/12/2009 3:15	0.161	0.161	0.052	18.7	718	8.6	8.5		
9/12/2009 3:30	0.158	0.158	0.050	18.6	718	8.6	8.5		
9/12/2009 3:45	0.158	0.158	0.050	18.6	718	8.6	8.5		
9/12/2009 4:00	0.156	0.156	0.049	18.6	718	8.6	8.5		
9/12/2009 4:15	0.157	0.157	0.049	18.6	720	8.6	8.5		
9/12/2009 4:30	0.155	0.155	0.048	18.6	720	8.6	8.5		
9/12/2009 4:45	0.162	0.162	0.052	18.6	718	8.6	8.5		
9/12/2009 5:00	0.153	0.153	0.047	18.5	720	8.6	8.5		
9/12/2009 5:15	0.158	0.158	0.050	18.5	720	8.6	8.5		
9/12/2009 5:30	0.159	0.159	0.050	18.5	720	8.6	8.5		
9/12/2009 5:45	0.156	0.156	0.049	18.5	720	8.6	8.5		
9/12/2009 6:00	0.157	0.157	0.049	18.5	720	8.6	8.5		
9/12/2009 6:15	0.158	0.158	0.050	18.5	720	8.6	8.5		
9/12/2009 6:30	0.166	0.166	0.055	18.5	720	8.6	8.5		
9/12/2009 6:45	0.147	0.147	0.044	18.4	720	8.6	8.5		
9/12/2009 7:00	0.16	0.16	0.051	18.4	720	8.6	8.5		
9/12/2009 7:15	0.151	0.151	0.046	18.4	720	8.7	8.5		
9/12/2009 7:30	0.152	0.152	0.046	18.4	718	8.7	8.5		
9/12/2009 7:45	0.152	0.152	0.046	18.4	718	8.7	8.5		
9/12/2009 8:00	0.154	0.154	0.048	18.4	718	8.7	8.5		
9/12/2009 8:15	0.156	0.156	0.049	18.4	718	8.7	8.5		
9/12/2009 8:30	0.151	0.151	0.046	18.4	720	8.7	8.5		
9/12/2009 8:45	0.154	0.154	0.048	18.5	720	8.7	8.5		
9/12/2009 9:00	0.154	0.154	0.048	18.5	720	8.8	8.5		
9/12/2009 9:15	0.152	0.152	0.046	18.6	720	8.8	8.5		
9/12/2009 9:30	0.152	0.152	0.046	18.7	718	8.9	8.5		
9/12/2009 9:45	0.156	0.156	0.049	18.9	720	8.9	8.6		
9/12/2009 10:00	0.151	0.151	0.046	19.2	718	8.8	8.6		
9/12/2009 10:15	0.153	0.153	0.047	19.6	718	8.8	8.6		
9/12/2009 10:30	0.154	0.154	0.048	20	718	8.8	8.6		
9/12/2009 10:45	0.172	0.172	0.059	20.4	718	8.7	8.6		
9/12/2009 11:00	0.158	0.158	0.050	20.5	720	8.6	8.6		
9/12/2009 11:15	0.157	0.157	0.049	20.2	720	8.6	8.6		
9/12/2009 11:30	0.163	0.163	0.053	20.2	718	8.6	8.6		
9/12/2009 11:45	0.158	0.158	0.050	20.1	718	8.6	8.6		
9/12/2009 12:00	0.155	0.155	0.048	20.1	718	8.7	8.6		
9/12/2009 12:15	0.155	0.155	0.048	20.3	720	8.6	8.6		
9/12/2009 12:30	0.158	0.158	0.050	20.2	720	8.6	8.6		
9/12/2009 12:45	0.148	0.148	0.044	20.4	720	8.6	8.6		
9/12/2009 13:00	0.163	0.163	0.053	20.4	720	8.6	8.6		
9/12/2009 13:15	0.153	0.153	0.047	20.3	720	8.5	8.6		
9/12/2009 13:30	0.151	0.151	0.046	20.2	720	8.5	8.6		13:29
9/12/2009 13:45	0.158	0.158	0.050	20.2	720	8.5	8.6		
9/12/2009 14:00	0.156	0.156	0.049	20.2	720	8.6	8.6		
9/12/2009 14:15	0.149	0.149	0.045	20.2	720	8.5	8.6		
9/12/2009 14:30	0.155	0.155	0.048	20.2	720	8.5	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/12/2009 14:45	0.161	0.161	0.052	20.2	720	8.5	8.6		
9/12/2009 15:00	0.153	0.153	0.047	20.3	720	8.5	8.6		
9/12/2009 15:15	0.153	0.153	0.047	20.3	720	8.5	8.6		
9/12/2009 15:30	0.152	0.152	0.046	20.3	720	8.5	8.6		
9/12/2009 15:45	0.16	0.16	0.051	20.3	720	8.4	8.6		
9/12/2009 16:00	0.151	0.151	0.046	20.3	720	8.4	8.6		
9/12/2009 16:15	0.156	0.156	0.049	20.3	720	8.4	8.6		
9/12/2009 16:30	0.149	0.149	0.045	20.2	720	8.4	8.6		
9/12/2009 16:45	0.156	0.156	0.049	20.2	722	8.4	8.6		
9/12/2009 17:00	0.158	0.158	0.050	20.2	722	8.4	8.6		
9/12/2009 17:15	0.164	0.164	0.053	20.2	722	8.4	8.6		
9/12/2009 17:30	0.161	0.161	0.052	20.1	722	8.4	8.6		
9/12/2009 17:45	0.159	0.159	0.050	20.1	722	8.4	8.6		
9/12/2009 18:00	0.157	0.157	0.049	20	722	8.3	8.6		
9/12/2009 18:15	0.162	0.162	0.052	20	722	8.4	8.6		
9/12/2009 18:30	0.156	0.156	0.049	19.9	724	8.3	8.6		
9/12/2009 18:45	0.154	0.154	0.048	19.8	724	8.3	8.6		
9/12/2009 19:00	0.16	0.16	0.051	19.7	724	8.3	8.6		
9/12/2009 19:15	0.159	0.159	0.050	19.7	724	8.3	8.6		
9/12/2009 19:30	0.158	0.158	0.050	19.6	724	8.3	8.6		
9/12/2009 19:45	0.157	0.157	0.049	19.5	724	8.3	8.6		
9/12/2009 20:00	0.157	0.157	0.049	19.4	724	8.4	8.5		
9/12/2009 20:15	0.154	0.154	0.048	19.4	724	8.4	8.5		
9/12/2009 20:30	0.163	0.163	0.053	19.3	724	8.4	8.5		
9/12/2009 20:45	0.156	0.156	0.049	19.2	726	8.4	8.5		
9/12/2009 21:00	0.158	0.158	0.050	19.1	726	8.4	8.5		
9/12/2009 21:15	0.159	0.159	0.050	19	726	8.4	8.5		
9/12/2009 21:30	0.156	0.156	0.049	19	726	8.5	8.5		
9/12/2009 21:45	0.166	0.166	0.055	18.9	726	8.5	8.5		
9/12/2009 22:00	0.155	0.155	0.048	18.8	726	8.5	8.5		
9/12/2009 22:15	0.152	0.152	0.046	18.7	726	8.5	8.5		
9/12/2009 22:30	0.157	0.157	0.049	18.6	728	8.5	8.5		
9/12/2009 22:45	0.154	0.154	0.048	18.6	730	8.6	8.5		
9/12/2009 23:00	0.155	0.155	0.048	18.5	730	8.6	8.5		
9/12/2009 23:15	0.158	0.158	0.050	18.5	730	8.6	8.5		
9/12/2009 23:30	0.169	0.169	0.057	18.4	730	8.6	8.5		
9/12/2009 23:45	0.16	0.16	0.051	18.4	730	8.6	8.5		
9/13/2009 0:00	0.153	0.153	0.047	18.3	732	8.6	8.5		
9/13/2009 0:15	0.149	0.149	0.045	18.3	732	8.6	8.5		
9/13/2009 0:30	0.154	0.154	0.048	18.2	732	8.6	8.5		
9/13/2009 0:45	0.157	0.157	0.049	18.1	732	8.7	8.5		
9/13/2009 1:00	0.155	0.155	0.048	18.1	732	8.7	8.5		
9/13/2009 1:15	0.157	0.157	0.049	18	732	8.7	8.5		
9/13/2009 1:30	0.152	0.152	0.046	18	734	8.7	8.5		
9/13/2009 1:45	0.154	0.154	0.048	17.9	734	8.7	8.5		
9/13/2009 2:00	0.152	0.152	0.046	17.9	734	8.7	8.5		
9/13/2009 2:15	0.151	0.151	0.046	17.8	734	8.7	8.5		
9/13/2009 2:30	0.151	0.151	0.046	17.8	734	8.7	8.5		
9/13/2009 2:45	0.145	0.145	0.043	17.7	734	8.8	8.5		
9/13/2009 3:00	0.158	0.158	0.050	17.7	734	8.8	8.5		
9/13/2009 3:15	0.153	0.153	0.047	17.6	734	8.8	8.5		
9/13/2009 3:30	0.156	0.156	0.049	17.6	734	8.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/13/2009 3:45	0.18	0.18	0.064	17.5	734	8.8	8.5		
9/13/2009 4:00	0.152	0.152	0.046	17.4	734	8.8	8.5		
9/13/2009 4:15	0.154	0.154	0.048	17.4	736	8.8	8.5		
9/13/2009 4:30	0.154	0.154	0.048	17.3	736	8.8	8.5		
9/13/2009 4:45	0.159	0.159	0.050	17.3	736	8.8	8.5		
9/13/2009 5:00	0.157	0.157	0.049	17.2	736	8.9	8.5		
9/13/2009 5:15	0.149	0.149	0.045	17.2	736	8.9	8.5		
9/13/2009 5:30	0.156	0.156	0.049	17.1	736	8.9	8.5		
9/13/2009 5:45	0.155	0.155	0.048	17.1	736	8.9	8.5		
9/13/2009 6:00	0.152	0.152	0.046	17	736	8.9	8.5		
9/13/2009 6:15	0.156	0.156	0.049	17	736	8.9	8.5		
9/13/2009 6:30	0.156	0.156	0.049	16.9	736	9	8.5		
9/13/2009 6:45	0.161	0.161	0.052	16.9	736	9	8.5		
9/13/2009 7:00	0.155	0.155	0.048	16.8	736	9	8.5		
9/13/2009 7:15	0.156	0.156	0.049	16.8	736	9	8.5		
9/13/2009 7:30	0.158	0.158	0.050	16.8	736	9.1	8.5		
9/13/2009 7:45	0.157	0.157	0.049	16.8	736	9.1	8.5		
9/13/2009 8:00	0.157	0.157	0.049	16.8	736	9.1	8.5		
9/13/2009 8:15	0.151	0.151	0.046	16.8	736	9.1	8.5		
9/13/2009 8:30	0.152	0.152	0.046	16.8	736	9.2	8.5		
9/13/2009 8:45	0.154	0.154	0.048	16.8	736	9.2	8.6		
9/13/2009 9:00	0.147	0.147	0.044	16.9	736	9.2	8.6		
9/13/2009 9:15	0.154	0.154	0.048	17	736	9.2	8.6		
9/13/2009 9:30	0.153	0.153	0.047	17.2	736	9.2	8.6		
9/13/2009 9:45	0.16	0.16	0.051	17.5	736	9.2	8.6		
9/13/2009 10:00	0.154	0.154	0.048	17.8	736	9.1	8.6		
9/13/2009 10:15	0.153	0.153	0.047	18.1	736	9.1	8.6		
9/13/2009 10:30	0.152	0.152	0.046	18.4	736	9.1	8.6		
9/13/2009 10:45	0.152	0.152	0.046	18.6	736	9.1	8.6		
9/13/2009 11:00	0.154	0.154	0.048	18.9	736	9	8.6		
9/13/2009 11:15	0.151	0.151	0.046	19.1	736	9	8.6		
9/13/2009 11:30	0.156	0.156	0.049	19.2	736	9	8.6		
9/13/2009 11:45	0.149	0.149	0.045	19.3	736	8.9	8.6		
9/13/2009 12:00	0.151	0.151	0.046	19.4	736	8.9	8.6		
9/13/2009 12:15	0.149	0.149	0.045	19.4	736	8.9	8.6		
9/13/2009 12:30	0.147	0.147	0.044	19.4	736	8.9	8.6		
9/13/2009 12:45	0.153	0.153	0.047	19.4	736	8.9	8.6		
9/13/2009 13:00	0.151	0.151	0.046	19.4	736	8.9	8.6		
9/13/2009 13:15	0.149	0.149	0.045	19.4	738	8.8	8.6		
9/13/2009 13:30	0.143	0.143	0.042	19.4	738	8.8	8.7		13:29
9/13/2009 13:45	0.154	0.154	0.048	19.4	738	8.8	8.7		
9/13/2009 14:00	0.148	0.148	0.044	19.3	738	8.8	8.7		
9/13/2009 14:15	0.15	0.15	0.045	19.4	738	8.8	8.6		
9/13/2009 14:30	0.157	0.157	0.049	19.4	738	8.8	8.7		
9/13/2009 14:45	0.151	0.151	0.046	19.5	738	8.7	8.6		
9/13/2009 15:00	0.15	0.15	0.045	19.6	738	8.7	8.7		
9/13/2009 15:15	0.149	0.149	0.045	19.6	738	8.7	8.7		
9/13/2009 15:30	0.147	0.147	0.044	19.7	738	8.7	8.6		
9/13/2009 15:45	0.147	0.147	0.044	19.7	738	8.6	8.6		
9/13/2009 16:00	0.15	0.15	0.045	19.8	738	8.6	8.6		
9/13/2009 16:15	0.145	0.145	0.043	19.8	740	8.5	8.6		
9/13/2009 16:30	0.146	0.146	0.043	19.9	740	8.5	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/13/2009 16:45	0.149	0.149	0.045	19.9	740	8.5	8.6		
9/13/2009 17:00	0.155	0.155	0.048	19.9	740	8.5	8.6		
9/13/2009 17:15	0.154	0.154	0.048	19.9	742	8.5	8.6		
9/13/2009 17:30	0.146	0.146	0.043	19.9	742	8.5	8.6		
9/13/2009 17:45	0.149	0.149	0.045	19.8	742	8.4	8.6		
9/13/2009 18:00	0.152	0.152	0.046	19.8	742	8.4	8.6		
9/13/2009 18:15	0.148	0.148	0.044	19.7	742	8.4	8.6		
9/13/2009 18:30	0.15	0.15	0.045	19.6	742	8.4	8.6		
9/13/2009 18:45	0.153	0.153	0.047	19.5	742	8.4	8.6		
9/13/2009 19:00	0.15	0.15	0.045	19.5	742	8.4	8.6		
9/13/2009 19:15	0.155	0.155	0.048	19.4	742	8.4	8.6		
9/13/2009 19:30	0.151	0.151	0.046	19.3	744	8.4	8.6		
9/13/2009 19:45	0.152	0.152	0.046	19.2	744	8.4	8.6		
9/13/2009 20:00	0.152	0.152	0.046	19.1	744	8.4	8.6		
9/13/2009 20:15	0.156	0.156	0.049	19.1	744	8.4	8.6		
9/13/2009 20:30	0.149	0.149	0.045	19	744	8.5	8.5		
9/13/2009 20:45	0.146	0.146	0.043	18.9	746	8.5	8.6		
9/13/2009 21:00	0.146	0.146	0.043	18.8	746	8.5	8.5		
9/13/2009 21:15	0.144	0.144	0.042	18.8	746	8.5	8.5		
9/13/2009 21:30	0.146	0.146	0.043	18.7	746	8.5	8.5		
9/13/2009 21:45	0.142	0.142	0.041	18.6	746	8.6	8.5		
9/13/2009 22:00	0.143	0.143	0.042	18.6	746	8.6	8.5		
9/13/2009 22:15	0.142	0.142	0.041	18.5	746	8.6	8.5		
9/13/2009 22:30	0.145	0.145	0.043	18.5	748	8.6	8.5		
9/13/2009 22:45	0.147	0.147	0.044	18.4	748	8.6	8.5		
9/13/2009 23:00	0.141	0.141	0.041	18.4	748	8.6	8.5		
9/13/2009 23:15	0.15	0.15	0.045	18.3	748	8.6	8.5		
9/13/2009 23:30	0.144	0.144	0.042	18.3	748	8.6	8.5		
9/13/2009 23:45	0.145	0.145	0.043	18.2	748	8.6	8.5		
9/14/2009 0:00	0.15	0.15	0.045	18.2	748	8.7	8.5		
9/14/2009 0:15	0.153	0.153	0.047	18.1	750	8.7	8.5		
9/14/2009 0:30	0.146	0.146	0.043	18.1	750	8.7	8.5		
9/14/2009 0:45	0.149	0.149	0.045	18	750	8.7	8.5		
9/14/2009 1:00	0.149	0.149	0.045	18	750	8.7	8.5		
9/14/2009 1:15	0.147	0.147	0.044	18	750	8.7	8.5		
9/14/2009 1:30	0.147	0.147	0.044	17.9	752	8.7	8.5		
9/14/2009 1:45	0.146	0.146	0.043	17.9	752	8.7	8.5		
9/14/2009 2:00	0.149	0.149	0.045	17.8	752	8.7	8.5		
9/14/2009 2:15	0.152	0.152	0.046	17.8	752	8.7	8.5		
9/14/2009 2:30	0.152	0.152	0.046	17.7	752	8.8	8.5		
9/14/2009 2:45	0.158	0.158	0.050	17.7	752	8.8	8.5		
9/14/2009 3:00	0.152	0.152	0.046	17.7	752	8.8	8.5		
9/14/2009 3:15	0.15	0.15	0.045	17.6	752	8.8	8.5		
9/14/2009 3:30	0.151	0.151	0.046	17.6	752	8.8	8.5		
9/14/2009 3:45	0.149	0.149	0.045	17.5	754	8.8	8.5		
9/14/2009 4:00	0.149	0.149	0.045	17.5	754	8.8	8.5		
9/14/2009 4:15	0.153	0.153	0.047	17.4	754	8.8	8.5		
9/14/2009 4:30	0.149	0.149	0.045	17.4	754	8.8	8.5		
9/14/2009 4:45	0.149	0.149	0.045	17.4	754	8.8	8.5		
9/14/2009 5:00	0.149	0.149	0.045	17.3	754	8.9	8.5		
9/14/2009 5:15	0.149	0.149	0.045	17.3	754	8.8	8.5		
9/14/2009 5:30	0.149	0.149	0.045	17.2	754	8.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/14/2009 5:45	0.157	0.157	0.049	17.2	754	8.9	8.5		
9/14/2009 6:00	0.15	0.15	0.045	17.2	754	8.9	8.5		
9/14/2009 6:15	0.153	0.153	0.047	17.1	754	8.9	8.5		
9/14/2009 6:30	0.152	0.152	0.046	17.1	754	8.9	8.5		
9/14/2009 6:45	0.151	0.151	0.046	17	754	8.9	8.5		
9/14/2009 7:00	0.155	0.155	0.048	17	754	9	8.5		
9/14/2009 7:15	0.157	0.157	0.049	17	754	9	8.5		
9/14/2009 7:30	0.156	0.156	0.049	17	754	9	8.5		
9/14/2009 7:45	0.159	0.159	0.050	17	754	9	8.5		
9/14/2009 8:00	0.156	0.156	0.049	17	754	9.1	8.6		
9/14/2009 8:15	0.153	0.153	0.047	17	754	9.1	8.6		
9/14/2009 8:30	0.155	0.155	0.048	17	754	9.1	8.6		
9/14/2009 8:45	0.153	0.153	0.047	17	754	9.2	8.6		
9/14/2009 9:00	0.152	0.152	0.046	17.1	754	9.2	8.6		
9/14/2009 9:15	0.154	0.154	0.048	17.2	754	9.2	8.6		
9/14/2009 9:30	0.149	0.149	0.045	17.4	754	9.1	8.6		
9/14/2009 9:45	0.151	0.151	0.046	17.6	754	9.1	8.6		
9/14/2009 10:00	0.156	0.156	0.049	18	754	9.1	8.6		
9/14/2009 10:15	0.151	0.151	0.046	18.4	754	9	8.6		
9/14/2009 10:30	0.148	0.148	0.044	18.8	754	9	8.6		
9/14/2009 10:45	0.155	0.155	0.048	19.2	752	9	8.6		
9/14/2009 11:00	0.148	0.148	0.044	19.5	752	8.9	8.6		
9/14/2009 11:15	0.149	0.149	0.045	19.7	752	8.9	8.6		
9/14/2009 11:30	0.148	0.148	0.044	19.9	752	8.8	8.7		
9/14/2009 11:45	0.145	0.145	0.043	20.1	752	8.8	8.7		
9/14/2009 12:00	0.142	0.142	0.041	20.2	752	8.8	8.7		
9/14/2009 12:15	0.137	0.137	0.039	20.2	752	8.8	8.7		
9/14/2009 12:30	0.14	0.14	0.040	20.3	752	8.7	8.7		
9/14/2009 12:45	0.136	0.136	0.039	20.3	752	8.7	8.7		
9/14/2009 13:00	0.138	0.138	0.039	20.2	754	8.7	8.7		
9/14/2009 13:15	0.141	0.141	0.041	20.1	754	8.7	8.6		
9/14/2009 13:30	0.138	0.138	0.039	20.2	754	8.7	8.7		13:29
9/14/2009 13:45	0.14	0.14	0.040	20.2	754	8.7	8.7		
9/14/2009 14:00	0.14	0.14	0.040	20.1	754	8.7	8.7		
9/14/2009 14:15	0.139	0.139	0.040	20.1	754	8.7	8.7		
9/14/2009 14:30	0.139	0.139	0.040	20.1	754	8.6	8.7		
9/14/2009 14:45	0.14	0.14	0.040	20	756	8.5	8.7		
9/14/2009 15:00	0.139	0.139	0.040	20	756	8.5	8.6		
9/14/2009 15:15	0.138	0.138	0.039	19.9	754	8.5	8.6		
9/14/2009 15:30	0.139	0.139	0.040	19.9	754	8.5	8.6		
9/14/2009 15:45	0.14	0.14	0.040	19.9	754	8.4	8.6		
9/14/2009 16:00	0.139	0.139	0.040	20	756	8.5	8.6		
9/14/2009 16:15	0.14	0.14	0.040	20	756	8.4	8.6		
9/14/2009 16:30	0.138	0.138	0.039	20.1	756	8.4	8.6		
9/14/2009 16:45	0.138	0.138	0.039	20.1	756	8.4	8.6		
9/14/2009 17:00	0.138	0.138	0.039	20.1	756	8.4	8.6		
9/14/2009 17:15	0.142	0.142	0.041	20	756	8.4	8.6		
9/14/2009 17:30	0.138	0.138	0.039	20	756	8.4	8.6		
9/14/2009 17:45	0.138	0.138	0.039	19.9	758	8.3	8.6		
9/14/2009 18:00	0.14	0.14	0.040	19.9	758	8.4	8.6		
9/14/2009 18:15	0.136	0.136	0.039	19.9	758	8.3	8.6		
9/14/2009 18:30	0.138	0.138	0.039	19.8	758	8.3	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/14/2009 18:45	0.139	0.139	0.040	19.8	758	8.3	8.5		
9/14/2009 19:00	0.137	0.137	0.039	19.7	758	8.3	8.5		
9/14/2009 19:15	0.138	0.138	0.039	19.7	760	8.3	8.5		
9/14/2009 19:30	0.136	0.136	0.039	19.6	760	8.3	8.5		
9/14/2009 19:45	0.14	0.14	0.040	19.6	758	8.3	8.5		
9/14/2009 20:00	0.138	0.138	0.039	19.5	758	8.3	8.5		
9/14/2009 20:15	0.138	0.138	0.039	19.5	758	8.3	8.5		
9/14/2009 20:30	0.136	0.136	0.039	19.5	758	8.3	8.5		
9/14/2009 20:45	0.136	0.136	0.039	19.4	758	8.3	8.5		
9/14/2009 21:00	0.137	0.137	0.039	19.4	758	8.3	8.5		
9/14/2009 21:15	0.136	0.136	0.039	19.4	758	8.4	8.5		
9/14/2009 21:30	0.137	0.137	0.039	19.3	758	8.4	8.5		
9/14/2009 21:45	0.136	0.136	0.039	19.3	758	8.4	8.5		
9/14/2009 22:00	0.136	0.136	0.039	19.3	758	8.4	8.5		
9/14/2009 22:15	0.138	0.138	0.039	19.2	758	8.4	8.5		
9/14/2009 22:30	0.136	0.136	0.039	19.2	760	8.4	8.5		
9/14/2009 22:45	0.136	0.136	0.039	19.2	760	8.4	8.5		
9/14/2009 23:00	0.138	0.138	0.039	19.2	762	8.4	8.5		
9/14/2009 23:15	0.135	0.135	0.038	19.1	762	8.4	8.5		
9/14/2009 23:30	0.136	0.136	0.039	19.1	762	8.4	8.5		
9/14/2009 23:45	0.135	0.135	0.038	19.1	760	8.4	8.5		
9/15/2009 0:00	0.136	0.136	0.039	19.1	760	8.4	8.5		
9/15/2009 0:15	0.136	0.136	0.039	19	758	8.4	8.5		
9/15/2009 0:30	0.134	0.134	0.038	19	760	8.4	8.5		
9/15/2009 0:45	0.137	0.137	0.039	19	760	8.5	8.5		
9/15/2009 1:00	0.135	0.135	0.038	18.9	760	8.5	8.5		
9/15/2009 1:15	0.137	0.137	0.039	18.9	758	8.5	8.5		
9/15/2009 1:30	0.136	0.136	0.039	18.9	758	8.5	8.5		
9/15/2009 1:45	0.137	0.137	0.039	18.9	758	8.5	8.5		
9/15/2009 2:00	0.138	0.138	0.039	18.8	760	8.5	8.5		
9/15/2009 2:15	0.138	0.138	0.039	18.8	760	8.5	8.5		
9/15/2009 2:30	0.136	0.136	0.039	18.8	758	8.5	8.5		
9/15/2009 2:45	0.139	0.139	0.040	18.8	760	8.5	8.5		
9/15/2009 3:00	0.139	0.139	0.040	18.7	760	8.5	8.5		
9/15/2009 3:15	0.138	0.138	0.039	18.7	758	8.5	8.5		
9/15/2009 3:30	0.139	0.139	0.040	18.7	758	8.5	8.5		
9/15/2009 3:45	0.14	0.14	0.040	18.7	760	8.5	8.5		
9/15/2009 4:00	0.139	0.139	0.040	18.7	758	8.5	8.5		
9/15/2009 4:15	0.139	0.139	0.040	18.7	760	8.5	8.5		
9/15/2009 4:30	0.139	0.139	0.040	18.6	762	8.5	8.5		
9/15/2009 4:45	0.14	0.14	0.040	18.6	762	8.5	8.5		
9/15/2009 5:00	0.14	0.14	0.040	18.6	762	8.5	8.5		
9/15/2009 5:15	0.139	0.139	0.040	18.6	768	8.5	8.5		
9/15/2009 5:30	0.137	0.137	0.039	18.6	770	8.5	8.5		
9/15/2009 5:45	0.14	0.14	0.040	18.6	770	8.5	8.5		
9/15/2009 6:00	0.139	0.139	0.040	18.6	770	8.5	8.5		
9/15/2009 6:15	0.14	0.14	0.040	18.5	770	8.6	8.5		
9/15/2009 6:30	0.14	0.14	0.040	18.5	770	8.6	8.5		
9/15/2009 6:45	0.139	0.139	0.040	18.5	770	8.6	8.5		
9/15/2009 7:00	0.138	0.138	0.039	18.5	770	8.6	8.5		
9/15/2009 7:15	0.14	0.14	0.040	18.5	770	8.6	8.5		
9/15/2009 7:30	0.139	0.139	0.040	18.5	770	8.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/15/2009 7:45	0.139	0.139	0.040	18.5	770	8.7	8.5		
9/15/2009 8:00	0.14	0.14	0.040	18.6	770	8.7	8.5		
9/15/2009 8:15	0.139	0.139	0.040	18.6	770	8.7	8.5		
9/15/2009 8:30	0.139	0.139	0.040	18.7	770	8.7	8.5		
9/15/2009 8:45	0.139	0.139	0.040	18.7	770	8.8	8.5		
9/15/2009 9:00	0.14	0.14	0.040	18.8	770	8.8	8.5		
9/15/2009 9:15	0.139	0.139	0.040	18.9	770	8.8	8.5		
9/15/2009 9:30	0.14	0.14	0.040	19	770	8.8	8.6		
9/15/2009 9:45	0.138	0.138	0.039	19	770	8.7	8.6		
9/15/2009 10:00	0.14	0.14	0.040	19	770	8.6	8.5		
9/15/2009 10:15	0.139	0.139	0.040	19	770	8.6	8.5		
9/15/2009 10:30	0.14	0.14	0.040	19	770	8.7	8.5		
9/15/2009 10:45	0.141	0.141	0.041	19	768	8.7	8.5		
9/15/2009 11:00	0.141	0.141	0.041	19	768	8.7	8.5		
9/15/2009 11:15	0.141	0.141	0.041	19.1	768	8.7	8.6		
9/15/2009 11:30	0.14	0.14	0.040	19.1	768	8.7	8.6		
9/15/2009 11:45	0.141	0.141	0.041	19.1	768	8.7	8.5		
9/15/2009 12:00	0.142	0.142	0.041	19.1	768	8.6	8.6		
9/15/2009 12:15	0.143	0.143	0.042	19.1	768	8.6	8.6		
9/15/2009 12:30	0.141	0.141	0.041	19.1	768	8.6	8.6		
9/15/2009 12:45	0.143	0.143	0.042	19.1	768	8.6	8.6		
9/15/2009 13:00	0.143	0.143	0.042	19.1	766	8.6	8.6		
9/15/2009 13:15	0.144	0.144	0.042	19.1	766	8.7	8.6		
9/15/2009 13:30	0.143	0.143	0.042	19.2	764	8.7	8.6		13:29
9/15/2009 13:45	0.144	0.144	0.042	19.2	762	8.7	8.6		
9/15/2009 14:00	0.143	0.143	0.042	19.3	760	8.7	8.6		
9/15/2009 14:15	0.147	0.147	0.044	19.3	762	8.7	8.6		
9/15/2009 14:30	0.144	0.144	0.042	19.4	760	8.8	8.6		
9/15/2009 14:45	0.146	0.146	0.043	19.5	758	8.8	8.6		
9/15/2009 15:00	0.146	0.146	0.043	19.6	758	8.8	8.6		
9/15/2009 15:15	0.145	0.145	0.043	19.7	758	8.7	8.6		
9/15/2009 15:30	0.144	0.144	0.042	19.7	758	8.7	8.6		
9/15/2009 15:45	0.145	0.145	0.043	19.7	758	8.7	8.6		
9/15/2009 16:00	0.147	0.147	0.044	19.8	758	8.6	8.6		
9/15/2009 16:15	0.146	0.146	0.043	19.8	758	8.6	8.6		
9/15/2009 16:30	0.147	0.147	0.044	19.8	758	8.6	8.6		
9/15/2009 16:45	0.148	0.148	0.044	19.8	758	8.6	8.6		
9/15/2009 17:00	0.147	0.147	0.044	19.8	760	8.6	8.6		
9/15/2009 17:15	0.148	0.148	0.044	19.8	760	8.5	8.6		
9/15/2009 17:30	0.148	0.148	0.044	19.8	760	8.5	8.6		
9/15/2009 17:45	0.147	0.147	0.044	19.8	760	8.4	8.6		
9/15/2009 18:00	0.144	0.144	0.042	19.7	760	8.4	8.6		
9/15/2009 18:15	0.144	0.144	0.042	19.7	760	8.4	8.5		
9/15/2009 18:30	0.145	0.145	0.043	19.6	760	8.4	8.5		
9/15/2009 18:45	0.144	0.144	0.042	19.6	760	8.4	8.5		
9/15/2009 19:00	0.145	0.145	0.043	19.5	760	8.4	8.5		
9/15/2009 19:15	0.144	0.144	0.042	19.5	760	8.4	8.5		
9/15/2009 19:30	0.143	0.143	0.042	19.4	760	8.4	8.5		
9/15/2009 19:45	0.142	0.142	0.041	19.4	760	8.4	8.5		
9/15/2009 20:00	0.144	0.144	0.042	19.4	760	8.4	8.5		
9/15/2009 20:15	0.143	0.143	0.042	19.3	762	8.4	8.5		
9/15/2009 20:30	0.144	0.144	0.042	19.3	762	8.4	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/15/2009 20:45	0.144	0.144	0.042	19.3	762	8.4	8.5		
9/15/2009 21:00	0.142	0.142	0.041	19.2	762	8.4	8.5		
9/15/2009 21:15	0.144	0.144	0.042	19.2	762	8.4	8.5		
9/15/2009 21:30	0.144	0.144	0.042	19.2	762	8.4	8.5		
9/15/2009 21:45	0.145	0.145	0.043	19.2	762	8.4	8.5		
9/15/2009 22:00	0.143	0.143	0.042	19.2	762	8.4	8.5		
9/15/2009 22:15	0.145	0.145	0.043	19.1	762	8.4	8.5		
9/15/2009 22:30	0.144	0.144	0.042	19.1	762	8.4	8.5		
9/15/2009 22:45	0.144	0.144	0.042	19.1	762	8.4	8.5		
9/15/2009 23:00	0.145	0.145	0.043	19.1	764	8.4	8.5		
9/15/2009 23:15	0.144	0.144	0.042	19.1	762	8.5	8.5		
9/15/2009 23:30	0.143	0.143	0.042	19.1	762	8.5	8.5		
9/15/2009 23:45	0.145	0.145	0.043	19	764	8.5	8.5		
9/16/2009 0:00	0.145	0.145	0.043	19	764	8.4	8.5		
9/16/2009 0:15	0.145	0.145	0.043	19	762	8.5	8.5		
9/16/2009 0:30	0.144	0.144	0.042	19	762	8.5	8.5		
9/16/2009 0:45	0.143	0.143	0.042	19	762	8.5	8.5		
9/16/2009 1:00	0.145	0.145	0.043	19	762	8.5	8.5		
9/16/2009 1:15	0.143	0.143	0.042	18.9	762	8.5	8.5		
9/16/2009 1:30	0.146	0.146	0.043	18.9	762	8.5	8.5		
9/16/2009 1:45	0.145	0.145	0.043	18.9	762	8.5	8.5		
9/16/2009 2:00	0.145	0.145	0.043	18.9	762	8.5	8.5		
9/16/2009 2:15	0.146	0.146	0.043	18.9	762	8.5	8.5		
9/16/2009 2:30	0.138	0.138	0.039	18.9	762	8.5	8.5		
9/16/2009 2:45	0.136	0.136	0.039	18.8	764	8.5	8.5		
9/16/2009 3:00	0.141	0.141	0.041	18.8	762	8.5	8.5		
9/16/2009 3:15	0.141	0.141	0.041	18.8	762	8.5	8.5		
9/16/2009 3:30	0.14	0.14	0.040	18.8	762	8.5	8.5		
9/16/2009 3:45	0.141	0.141	0.041	18.8	764	8.5	8.5		
9/16/2009 4:00	0.14	0.14	0.040	18.8	762	8.5	8.5		
9/16/2009 4:15	0.141	0.141	0.041	18.8	762	8.5	8.5		
9/16/2009 4:30	0.141	0.141	0.041	18.8	762	8.5	8.5		
9/16/2009 4:45	0.142	0.142	0.041	18.7	762	8.5	8.5		
9/16/2009 5:00	0.142	0.142	0.041	18.7	762	8.5	8.5		
9/16/2009 5:15	0.141	0.141	0.041	18.7	762	8.5	8.5		
9/16/2009 5:30	0.145	0.145	0.043	18.7	762	8.5	8.5		
9/16/2009 5:45	0.146	0.146	0.043	18.7	762	8.5	8.5		
9/16/2009 6:00	0.145	0.145	0.043	18.7	760	8.5	8.5		
9/16/2009 6:15	0.147	0.147	0.044	18.7	748	8.5	8.5		
9/16/2009 6:30	0.154	0.154	0.048	18.7	724	8.5	8.5		
9/16/2009 6:45	0.157	0.157	0.049	18.7	718	8.5	8.5		
9/16/2009 7:00	0.159	0.159	0.050	18.6	716	8.5	8.5		
9/16/2009 7:15	0.159	0.159	0.050	18.6	710	8.5	8.5		
9/16/2009 7:30	0.16	0.16	0.051	18.7	706	8.5	8.5		
9/16/2009 7:45	0.157	0.157	0.049	18.7	704	8.5	8.5		
9/16/2009 8:00	0.173	0.173	0.059	18.7	698	8.6	8.5		
9/16/2009 8:15	0.179	0.179	0.064	18.8	700	8.6	8.5		
9/16/2009 8:30	0.173	0.173	0.059	18.8	704	8.6	8.5		
9/16/2009 8:45	0.185	0.185	0.068	18.8	708	8.7	8.5		
9/16/2009 9:00	0.19	0.19	0.072	18.9	710	8.7	8.5		
9/16/2009 9:15	0.203	0.203	0.084	18.9	714	8.7	8.5		
9/16/2009 9:30	0.214	0.214	0.095	18.9	714	8.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/16/2009 9:45	0.205	0.205	0.086	18.9	712	8.6	8.5		
9/16/2009 10:00	0.207	0.207	0.088	18.9	710	8.6	8.5		
9/16/2009 10:15	0.206	0.206	0.087	18.9	708	8.6	8.5		
9/16/2009 10:30	0.203	0.203	0.084	18.9	708	8.6	8.5		
9/16/2009 10:45	0.203	0.203	0.084	18.9	706	8.6	8.5		
9/16/2009 11:00	0.203	0.203	0.084	19	706	8.6	8.5		
9/16/2009 11:15	0.201	0.201	0.082	19	702	8.6	8.5		
9/16/2009 11:30	0.212	0.212	0.093	19	682	8.7	8.5		
9/16/2009 11:45	0.211	0.211	0.092	19.1	668	8.7	8.5		
9/16/2009 12:00	0.218	0.218	0.100	19.1	646	8.7	8.5		
9/16/2009 12:15	0.212	0.212	0.093	19.2	628	8.7	8.6		
9/16/2009 12:30	0.22	0.22	0.102	19.1	624	8.6	8.6		
9/16/2009 12:45	0.225	0.225	0.109	19.1	620	8.6	8.5		
9/16/2009 13:00	0.217	0.217	0.099	19.1	612	8.6	8.5		
9/16/2009 13:15	0.235	0.235	0.122	19	592	8.6	8.5		
9/16/2009 13:30	0.236	0.236	0.123	19	566	8.6	8.5		13:29
9/16/2009 13:45	0.234	0.234	0.120	19	548	8.7	8.5		
9/16/2009 14:00	0.236	0.236	0.123	19	536	8.7	8.5		
9/16/2009 14:15	0.23	0.23	0.115	18.9	526	8.6	8.5		
9/16/2009 14:30	0.23	0.23	0.115	18.9	518	8.6	8.5		
9/16/2009 14:45	0.226	0.226	0.110	18.9	510	8.6	8.5		
9/16/2009 15:00	0.221	0.221	0.104	19	498	8.6	8.5		
9/16/2009 15:15	0.21	0.21	0.091	18.9	490	8.6	8.5		
9/16/2009 15:30	0.215	0.215	0.097	18.9	482	8.6	8.5		
9/16/2009 15:45	0.22	0.22	0.102	18.9	478	8.6	8.5		
9/16/2009 16:00	0.214	0.214	0.095	18.9	470	8.6	8.5		
9/16/2009 16:15	0.223	0.223	0.106	18.9	464	8.6	8.5		
9/16/2009 16:30	0.212	0.212	0.093	18.9	458	8.6	8.5		
9/16/2009 16:45	0.216	0.216	0.098	18.9	454	8.6	8.5		
9/16/2009 17:00	0.23	0.23	0.115	18.9	450	8.6	8.5		
9/16/2009 17:15	0.21	0.21	0.091	18.9	450	8.6	8.5		
9/16/2009 17:30	0.206	0.206	0.087	18.9	450	8.6	8.5		
9/16/2009 17:45	0.196	0.196	0.077	18.9	452	8.6	8.5		
9/16/2009 18:00	0.21	0.21	0.091	18.9	454	8.6	8.5		
9/16/2009 18:15	0.206	0.206	0.087	18.9	454	8.6	8.5		
9/16/2009 18:30	0.21	0.21	0.091	18.9	454	8.6	8.5		
9/16/2009 18:45	0.21	0.21	0.091	18.8	456	8.6	8.5		
9/16/2009 19:00	0.2	0.2	0.081	18.8	458	8.6	8.5		
9/16/2009 19:15	0.201	0.201	0.082	18.8	460	8.5	8.4		
9/16/2009 19:30	0.228	0.228	0.112	18.8	464	8.6	8.4		
9/16/2009 19:45	0.197	0.197	0.078	18.8	466	8.6	8.4		
9/16/2009 20:00	0.203	0.203	0.084	18.8	470	8.6	8.4		
9/16/2009 20:15	0.199	0.199	0.080	18.7	472	8.6	8.4		
9/16/2009 20:30	0.202	0.202	0.083	18.7	472	8.6	8.4		
9/16/2009 20:45	0.2	0.2	0.081	18.7	474	8.6	8.4		
9/16/2009 21:00	0.199	0.199	0.080	18.7	474	8.6	8.4		
9/16/2009 21:15	0.199	0.199	0.080	18.7	474	8.6	8.4		
9/16/2009 21:30	0.199	0.199	0.080	18.7	474	8.6	8.4		
9/16/2009 21:45	0.199	0.199	0.080	18.7	474	8.6	8.4		
9/16/2009 22:00	0.199	0.199	0.080	18.7	474	8.6	8.4		
9/16/2009 22:15	0.197	0.197	0.078	18.6	476	8.6	8.4		
9/16/2009 22:30	0.198	0.198	0.079	18.6	478	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/16/2009 22:45	0.196	0.196	0.077	18.6	478	8.6	8.4		
9/16/2009 23:00	0.195	0.195	0.077	18.6	480	8.6	8.4		
9/16/2009 23:15	0.195	0.195	0.077	18.6	482	8.5	8.4		
9/16/2009 23:30	0.197	0.197	0.078	18.6	484	8.6	8.4		
9/16/2009 23:45	0.196	0.196	0.077	18.6	486	8.6	8.4		
9/17/2009 0:00	0.195	0.195	0.077	18.6	488	8.6	8.4		
9/17/2009 0:15	0.193	0.193	0.075	18.6	488	8.6	8.4		
9/17/2009 0:30	0.195	0.195	0.077	18.6	490	8.6	8.4		
9/17/2009 0:45	0.192	0.192	0.074	18.5	492	8.6	8.4		
9/17/2009 1:00	0.192	0.192	0.074	18.5	492	8.5	8.4		
9/17/2009 1:15	0.191	0.191	0.073	18.5	494	8.5	8.4		
9/17/2009 1:30	0.19	0.19	0.072	18.5	496	8.5	8.3		
9/17/2009 1:45	0.19	0.19	0.072	18.5	498	8.6	8.3		
9/17/2009 2:00	0.189	0.189	0.071	18.5	500	8.6	8.4		
9/17/2009 2:15	0.19	0.19	0.072	18.5	502	8.6	8.4		
9/17/2009 2:30	0.19	0.19	0.072	18.5	504	8.6	8.4		
9/17/2009 2:45	0.188	0.188	0.071	18.5	506	8.6	8.4		
9/17/2009 3:00	0.189	0.189	0.071	18.5	506	8.6	8.4		
9/17/2009 3:15	0.189	0.189	0.071	18.5	506	8.6	8.4		
9/17/2009 3:30	0.192	0.192	0.074	18.5	508	8.6	8.4		
9/17/2009 3:45	0.19	0.19	0.072	18.5	508	8.6	8.4		
9/17/2009 4:00	0.188	0.188	0.071	18.5	510	8.6	8.4		
9/17/2009 4:15	0.187	0.187	0.070	18.5	510	8.6	8.3		
9/17/2009 4:30	0.187	0.187	0.070	18.5	512	8.6	8.4		
9/17/2009 4:45	0.186	0.186	0.069	18.5	514	8.6	8.4		
9/17/2009 5:00	0.189	0.189	0.071	18.5	516	8.6	8.4		
9/17/2009 5:15	0.188	0.188	0.071	18.4	516	8.6	8.4		
9/17/2009 5:30	0.188	0.188	0.071	18.4	518	8.6	8.4		
9/17/2009 5:45	0.186	0.186	0.069	18.4	518	8.6	8.4		
9/17/2009 6:00	0.188	0.188	0.071	18.4	518	8.6	8.4		
9/17/2009 6:15	0.188	0.188	0.071	18.4	520	8.6	8.4		
9/17/2009 6:30	0.191	0.191	0.073	18.4	522	8.6	8.4		
9/17/2009 6:45	0.189	0.189	0.071	18.4	522	8.6	8.4		
9/17/2009 7:00	0.191	0.191	0.073	18.4	524	8.6	8.4		
9/17/2009 7:15	0.188	0.188	0.071	18.4	524	8.6	8.4		
9/17/2009 7:30	0.184	0.184	0.067	18.4	526	8.6	8.4		
9/17/2009 7:45	0.184	0.184	0.067	18.5	526	8.6	8.3		
9/17/2009 8:00	0.184	0.184	0.067	18.5	528	8.7	8.3		
9/17/2009 8:15	0.184	0.184	0.067	18.5	528	8.7	8.3		
9/17/2009 8:30	0.187	0.187	0.070	18.6	530	8.7	8.4		
9/17/2009 8:45	0.188	0.188	0.071	18.6	530	8.7	8.4		
9/17/2009 9:00	0.186	0.186	0.069	18.6	530	8.7	8.4		
9/17/2009 9:15	0.186	0.186	0.069	18.7	532	8.7	8.4		
9/17/2009 9:30	0.186	0.186	0.069	18.7	532	8.7	8.4		
9/17/2009 9:45	0.187	0.187	0.070	18.8	534	8.7	8.4		
9/17/2009 10:00	0.184	0.184	0.067	18.8	534	8.7	8.4		
9/17/2009 10:15	0.184	0.184	0.067	18.9	536	8.7	8.4		
9/17/2009 10:30	0.186	0.186	0.069	18.9	536	8.7	8.4		
9/17/2009 10:45	0.185	0.185	0.068	19	538	8.7	8.4		
9/17/2009 11:00	0.184	0.184	0.067	19	540	8.7	8.4		
9/17/2009 11:15	0.183	0.183	0.067	19	542	8.7	8.4		
9/17/2009 11:30	0.185	0.185	0.068	19	542	8.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/17/2009 11:45	0.184	0.184	0.067	19.1	544	8.7	8.5		
9/17/2009 12:00	0.184	0.184	0.067	19.1	544	8.7	8.5		
9/17/2009 12:15	0.185	0.185	0.068	19.1	544	8.6	8.5		
9/17/2009 12:30	0.184	0.184	0.067	19.1	546	8.7	8.5		
9/17/2009 12:45	0.184	0.184	0.067	19.1	546	8.6	8.5		
9/17/2009 13:00	0.182	0.182	0.066	19.2	546	8.7	8.5		
9/17/2009 13:15	0.183	0.183	0.067	19.2	546	8.7	8.5		
9/17/2009 13:30	0.184	0.184	0.067	19.2	546	8.6	8.5		13:29
9/17/2009 13:45	0.169	0.169	0.057	19.2	546	8.7	8.5		
9/17/2009 14:00	0.168	0.168	0.056	19.3	544	8.7	8.5		
9/17/2009 14:15	0.168	0.168	0.056	19.3	546	8.6	8.5		
9/17/2009 14:30	0.169	0.169	0.057	19.3	544	8.6	8.5		
9/17/2009 14:45	0.166	0.166	0.055	19.3	544	8.6	8.5		
9/17/2009 15:00	0.168	0.168	0.056	19.4	546	8.6	8.5		
9/17/2009 15:15	0.168	0.168	0.056	19.4	546	8.7	8.5		
9/17/2009 15:30	0.169	0.169	0.057	19.5	546	8.6	8.5		
9/17/2009 15:45	0.171	0.171	0.058	19.5	548	8.6	8.5		
9/17/2009 16:00	0.167	0.167	0.055	19.5	550	8.5	8.5		
9/17/2009 16:15	0.169	0.169	0.057	19.6	550	8.5	8.5		
9/17/2009 16:30	0.169	0.169	0.057	19.5	552	8.5	8.5		
9/17/2009 16:45	0.175	0.175	0.061	19.5	552	8.4	8.4		
9/17/2009 17:00	0.173	0.173	0.059	19.5	546	8.4	8.4		
9/17/2009 17:15	0.174	0.174	0.060	19.4	544	8.4	8.4		
9/17/2009 17:30	0.175	0.175	0.061	19.4	544	8.4	8.3		
9/17/2009 17:45	0.178	0.178	0.063	19.4	544	8.4	8.3		
9/17/2009 18:00	0.177	0.177	0.062	19.3	544	8.4	8.3		
9/17/2009 18:15	0.177	0.177	0.062	19.3	544	8.4	8.3		
9/17/2009 18:30	0.179	0.179	0.064	19.3	544	8.4	8.3		
9/17/2009 18:45	0.179	0.179	0.064	19.2	548	8.4	8.3		
9/17/2009 19:00	0.182	0.182	0.066	19.2	548	8.4	8.3		
9/17/2009 19:15	0.18	0.18	0.064	19.2	548	8.4	8.3		
9/17/2009 19:30	0.182	0.182	0.066	19.1	546	8.4	8.2		
9/17/2009 19:45	0.181	0.181	0.065	19.1	544	8.4	8.3		
9/17/2009 20:00	0.183	0.183	0.067	19.1	542	8.4	8.3		
9/17/2009 20:15	0.187	0.187	0.070	19	542	8.4	8.2		
9/17/2009 20:30	0.184	0.184	0.067	19	540	8.4	8.2		
9/17/2009 20:45	0.183	0.183	0.067	19	540	8.4	8.3		
9/17/2009 21:00	0.184	0.184	0.067	19	540	8.5	8.3		
9/17/2009 21:15	0.184	0.184	0.067	18.9	540	8.4	8.3		
9/17/2009 21:30	0.182	0.182	0.066	18.9	542	8.5	8.3		
9/17/2009 21:45	0.182	0.182	0.066	18.9	542	8.5	8.3		
9/17/2009 22:00	0.187	0.187	0.070	18.9	540	8.5	8.3		
9/17/2009 22:15	0.198	0.198	0.079	18.9	540	8.5	8.3		
9/17/2009 22:30	0.197	0.197	0.078	18.9	536	8.5	8.3		
9/17/2009 22:45	0.193	0.193	0.075	18.8	536	8.5	8.3		
9/17/2009 23:00	0.193	0.193	0.075	18.8	532	8.5	8.3		
9/17/2009 23:15	0.192	0.192	0.074	18.8	532	8.5	8.3		
9/17/2009 23:30	0.193	0.193	0.075	18.8	530	8.5	8.3		
9/17/2009 23:45	0.193	0.193	0.075	18.8	528	8.5	8.3		
9/18/2009 0:00	0.192	0.192	0.074	18.7	530	8.5	8.3		
9/18/2009 0:15	0.192	0.192	0.074	18.7	528	8.5	8.3		
9/18/2009 0:30	0.19	0.19	0.072	18.7	528	8.5	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/18/2009 0:45	0.192	0.192	0.074	18.7	528	8.5	8.3		
9/18/2009 1:00	0.189	0.189	0.071	18.7	528	8.6	8.3		
9/18/2009 1:15	0.189	0.189	0.071	18.7	528	8.5	8.3		
9/18/2009 1:30	0.19	0.19	0.072	18.7	528	8.6	8.3		
9/18/2009 1:45	0.189	0.189	0.071	18.7	526	8.6	8.3		
9/18/2009 2:00	0.19	0.19	0.072	18.7	526	8.5	8.3		
9/18/2009 2:15	0.19	0.19	0.072	18.6	526	8.6	8.3		
9/18/2009 2:30	0.19	0.19	0.072	18.6	526	8.6	8.3		
9/18/2009 2:45	0.188	0.188	0.071	18.6	526	8.6	8.3		
9/18/2009 3:00	0.191	0.191	0.073	18.6	526	8.6	8.3		
9/18/2009 3:15	0.19	0.19	0.072	18.6	526	8.6	8.3		
9/18/2009 3:30	0.188	0.188	0.071	18.6	526	8.6	8.3		
9/18/2009 3:45	0.188	0.188	0.071	18.6	526	8.6	8.3		
9/18/2009 4:00	0.188	0.188	0.071	18.6	526	8.6	8.3		
9/18/2009 4:15	0.188	0.188	0.071	18.5	528	8.6	8.3		
9/18/2009 4:30	0.188	0.188	0.071	18.5	528	8.6	8.3		
9/18/2009 4:45	0.188	0.188	0.071	18.5	528	8.6	8.4		
9/18/2009 5:00	0.188	0.188	0.071	18.5	528	8.6	8.4		
9/18/2009 5:15	0.19	0.19	0.072	18.5	528	8.6	8.3		
9/18/2009 5:30	0.186	0.186	0.069	18.5	530	8.6	8.3		
9/18/2009 5:45	0.188	0.188	0.071	18.5	530	8.6	8.3		
9/18/2009 6:00	0.186	0.186	0.069	18.5	530	8.6	8.3		
9/18/2009 6:15	0.184	0.184	0.067	18.5	530	8.6	8.3		
9/18/2009 6:30	0.185	0.185	0.068	18.4	530	8.6	8.3		
9/18/2009 6:45	0.185	0.185	0.068	18.4	532	8.6	8.3		
9/18/2009 7:00	0.187	0.187	0.070	18.4	532	8.6	8.3		
9/18/2009 7:15	0.186	0.186	0.069	18.5	532	8.7	8.3		
9/18/2009 7:30	0.187	0.187	0.070	18.5	534	8.7	8.4		
9/18/2009 7:45	0.187	0.187	0.070	18.5	534	8.7	8.4		
9/18/2009 8:00	0.186	0.186	0.069	18.5	534	8.7	8.4		
9/18/2009 8:15	0.186	0.186	0.069	18.6	534	8.7	8.4		
9/18/2009 8:30	0.186	0.186	0.069	18.6	536	8.7	8.4		
9/18/2009 8:45	0.184	0.184	0.067	18.6	536	8.7	8.4		
9/18/2009 9:00	0.186	0.186	0.069	18.7	536	8.8	8.4		
9/18/2009 9:15	0.185	0.185	0.068	18.8	536	8.8	8.4		
9/18/2009 9:30	0.185	0.185	0.068	18.8	538	8.8	8.4		
9/18/2009 9:45	0.184	0.184	0.067	18.9	538	8.8	8.4		
9/18/2009 10:00	0.181	0.181	0.065	19.1	538	8.8	8.4		
9/18/2009 10:15	0.184	0.184	0.067	19.2	540	8.8	8.4		
9/18/2009 10:30	0.184	0.184	0.067	19.2	540	8.7	8.4		
9/18/2009 10:45	0.182	0.182	0.066	19.4	540	8.8	8.4		
9/18/2009 11:00	0.184	0.184	0.067	19.6	540	8.7	8.4		
9/18/2009 11:15	0.185	0.185	0.068	19.7	542	8.7	8.4		
9/18/2009 11:30	0.183	0.183	0.067	19.8	542	8.7	8.5		
9/18/2009 11:45	0.189	0.189	0.071	19.8	542	8.6	8.5		
9/18/2009 12:00	0.188	0.188	0.071	19.7	544	8.6	8.5		
9/18/2009 12:15	0.191	0.191	0.073	19.8	544	8.7	8.5		
9/18/2009 12:30	0.189	0.189	0.071	19.9	544	8.7	8.5		
9/18/2009 12:45	0.184	0.184	0.067	20	544	8.7	8.5		
9/18/2009 13:00	0.196	0.196	0.077	20.1	546	8.6	8.5		
9/18/2009 13:15	0.188	0.188	0.071	20.2	546	8.6	8.5		
9/18/2009 13:30	0.192	0.192	0.074	20.2	546	8.6	8.5		13:29

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/18/2009 13:45	0.188	0.188	0.071	20.3	548	8.6	8.5		
9/18/2009 14:00	0.194	0.194	0.076	20.3	548	8.5	8.5		
9/18/2009 14:15	0.189	0.189	0.071	20.3	548	8.5	8.5		
9/18/2009 14:30	0.187	0.187	0.070	20.3	550	8.5	8.5		
9/18/2009 14:45	0.192	0.192	0.074	20.3	550	8.5	8.5		
9/18/2009 15:00	0.184	0.184	0.067	20.3	550	8.4	8.5		
9/18/2009 15:15	0.191	0.191	0.073	20.3	550	8.4	8.5		
9/18/2009 15:30	0.186	0.186	0.069	20.3	552	8.4	8.5		
9/18/2009 15:45	0.184	0.184	0.067	20.3	552	8.4	8.5		
9/18/2009 16:00	0.183	0.183	0.067	20.3	552	8.4	8.5		
9/18/2009 16:15	0.184	0.184	0.067	20.3	554	8.4	8.5		
9/18/2009 16:30	0.188	0.188	0.071	20.3	554	8.4	8.5		
9/18/2009 16:45	0.191	0.191	0.073	20.3	554	8.4	8.5		
9/18/2009 17:00	0.188	0.188	0.071	20.2	554	8.4	8.5		
9/18/2009 17:15	0.186	0.186	0.069	20.2	554	8.4	8.4		
9/18/2009 17:30	0.189	0.189	0.071	20.1	556	8.3	8.4		
9/18/2009 17:45	0.188	0.188	0.071	20.1	556	8.3	8.4		
9/18/2009 18:00	0.185	0.185	0.068	20.1	556	8.3	8.4		
9/18/2009 18:15	0.182	0.182	0.066	20	554	8.3	8.4		
9/18/2009 18:30	0.203	0.203	0.084	20	528	8.3	8.4		
9/18/2009 18:45	0.198	0.198	0.079	20	518	8.2	8.3		
9/18/2009 19:00	0.199	0.199	0.080	19.9	516	8.2	8.3		
9/18/2009 19:15	0.198	0.198	0.079	19.8	506	8.2	8.3		
9/18/2009 19:30	0.21	0.21	0.091	19.8	488	8.2	8.2		
9/18/2009 19:45	0.214	0.214	0.095	19.7	450	8.3	8.3		
9/18/2009 20:00	0.23	0.23	0.115	19.8	430	8.3	8.3		
9/18/2009 20:15	0.262	0.262	0.167	19.7	420	8.4	8.3		
9/18/2009 20:30	0.454	0.454	1.556	19.6	414	8.4	8.3		
9/18/2009 20:45	0.461	0.461	1.688	19.1	378	8.7	8.3		
9/18/2009 21:00	0.44	0.44	1.322	19	296	8.7	8.2		
9/18/2009 21:15	0.405	0.405	0.880	19	248	8.7	8.3		
9/18/2009 21:30	0.393	0.393	0.765	18.9	230	8.8	8.3		
9/18/2009 21:45	0.385	0.385	0.697	18.9	226	8.8	8.3		
9/18/2009 22:00	0.367	0.367	0.566	18.9	230	8.8	8.3		
9/18/2009 22:15	0.36	0.36	0.521	18.9	230	8.8	8.3		
9/18/2009 22:30	0.339	0.339	0.408	18.8	230	8.8	8.3		
9/18/2009 22:45	0.339	0.339	0.408	18.8	232	8.8	8.3		
9/18/2009 23:00	0.324	0.324	0.343	18.8	236	8.8	8.3		
9/18/2009 23:15	0.321	0.321	0.331	18.8	240	8.8	8.3		
9/18/2009 23:30	0.317	0.317	0.316	18.7	246	8.8	8.3		
9/18/2009 23:45	0.304	0.304	0.272	18.7	250	8.8	8.4		
9/19/2009 0:00	0.303	0.303	0.269	18.7	254	8.8	8.4		
9/19/2009 0:15	0.301	0.301	0.263	18.7	258	8.8	8.3		
9/19/2009 0:30	0.284	0.284	0.215	18.7	256	8.8	8.3		
9/19/2009 0:45	0.288	0.288	0.226	18.6	264	8.8	8.4		
9/19/2009 1:00	0.286	0.286	0.221	18.6	268	8.8	8.4		
9/19/2009 1:15	0.276	0.276	0.196	18.6	272	8.8	8.4		
9/19/2009 1:30	0.272	0.272	0.187	18.6	276	8.8	8.4		
9/19/2009 1:45	0.271	0.271	0.185	18.6	278	8.8	8.4		
9/19/2009 2:00	0.265	0.265	0.173	18.6	282	8.8	8.4		
9/19/2009 2:15	0.262	0.262	0.167	18.6	284	8.8	8.4		
9/19/2009 2:30	0.258	0.258	0.159	18.5	288	8.8	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/19/2009 2:45	0.256	0.256	0.156	18.5	290	8.8	8.4		
9/19/2009 3:00	0.26	0.26	0.163	18.5	292	8.8	8.4		
9/19/2009 3:15	0.258	0.258	0.159	18.5	294	8.8	8.4		
9/19/2009 3:30	0.257	0.257	0.157	18.5	296	8.8	8.4		
9/19/2009 3:45	0.258	0.258	0.159	18.5	298	8.8	8.4		
9/19/2009 4:00	0.246	0.246	0.139	18.5	300	8.8	8.4		
9/19/2009 4:15	0.25	0.25	0.145	18.5	302	8.8	8.4		
9/19/2009 4:30	0.256	0.256	0.156	18.5	304	8.8	8.4		
9/19/2009 4:45	0.248	0.248	0.142	18.4	308	8.8	8.4		
9/19/2009 5:00	0.249	0.249	0.143	18.4	310	8.8	8.4		
9/19/2009 5:15	0.249	0.249	0.143	18.4	310	8.8	8.4		
9/19/2009 5:30	0.247	0.247	0.140	18.4	312	8.8	8.4		
9/19/2009 5:45	0.255	0.255	0.154	18.4	314	8.8	8.4		
9/19/2009 6:00	0.243	0.243	0.134	18.4	316	8.9	8.4		
9/19/2009 6:15	0.251	0.251	0.147	18.4	316	8.9	8.4		
9/19/2009 6:30	0.245	0.245	0.137	18.4	318	8.8	8.4		
9/19/2009 6:45	0.249	0.249	0.143	18.3	318	8.8	8.4		
9/19/2009 7:00	0.238	0.238	0.126	18.3	320	8.9	8.4		
9/19/2009 7:15	0.246	0.246	0.139	18.3	322	8.9	8.4		
9/19/2009 7:30	0.245	0.245	0.137	18.3	322	8.9	8.4		
9/19/2009 7:45	0.243	0.243	0.134	18.4	324	8.9	8.4		
9/19/2009 8:00	0.238	0.238	0.126	18.4	324	8.9	8.4		
9/19/2009 8:15	0.242	0.242	0.132	18.4	326	8.9	8.4		
9/19/2009 8:30	0.242	0.242	0.132	18.4	326	8.9	8.4		
9/19/2009 8:45	0.239	0.239	0.128	18.5	328	8.9	8.4		
9/19/2009 9:00	0.239	0.239	0.128	18.5	328	8.9	8.4		
9/19/2009 9:15	0.238	0.238	0.126	18.5	330	8.9	8.4		
9/19/2009 9:30	0.241	0.241	0.131	18.6	330	8.9	8.5		
9/19/2009 9:45	0.243	0.243	0.134	18.7	332	8.9	8.4		
9/19/2009 10:00	0.244	0.244	0.135	18.8	332	8.9	8.5		
9/19/2009 10:15	0.238	0.238	0.126	18.9	334	8.9	8.5		
9/19/2009 10:30	0.233	0.233	0.119	18.9	334	8.9	8.4		
9/19/2009 10:45	0.241	0.241	0.131	19	336	8.9	8.5		
9/19/2009 11:00	0.246	0.246	0.139	19	336	8.8	8.5		
9/19/2009 11:15	0.243	0.243	0.134	19.1	338	8.8	8.5		
9/19/2009 11:30	0.24	0.24	0.129	19.2	338	8.8	8.4		
9/19/2009 11:45	0.24	0.24	0.129	19.3	338	8.8	8.5		
9/19/2009 12:00	0.24	0.24	0.129	19.3	340	8.8	8.5		
9/19/2009 12:15	0.238	0.238	0.126	19.3	340	8.8	8.5		
9/19/2009 12:30	0.239	0.239	0.128	19.3	342	8.8	8.5		
9/19/2009 12:45	0.231	0.231	0.116	19.3	342	8.8	8.5		
9/19/2009 13:00	0.232	0.232	0.118	19.3	344	8.8	8.5		
9/19/2009 13:15	0.235	0.235	0.122	19.3	344	8.7	8.5		
9/19/2009 13:30	0.23	0.23	0.115	19.3	344	8.7	8.5		13:29
9/19/2009 13:45	0.233	0.233	0.119	19.3	346	8.7	8.5		
9/19/2009 14:00	0.229	0.229	0.114	19.3	346	8.7	8.5		
9/19/2009 14:15	0.23	0.23	0.115	19.4	348	8.7	8.5		
9/19/2009 14:30	0.227	0.227	0.111	19.3	348	8.7	8.4		
9/19/2009 14:45	0.225	0.225	0.109	19.3	350	8.7	8.4		
9/19/2009 15:00	0.225	0.225	0.109	19.3	350	8.7	8.4		
9/19/2009 15:15	0.227	0.227	0.111	19.3	350	8.7	8.4		
9/19/2009 15:30	0.232	0.232	0.118	19.3	352	8.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/19/2009 15:45	0.236	0.236	0.123	19.2	352	8.7	8.4		
9/19/2009 16:00	0.236	0.236	0.123	19.2	354	8.7	8.4		
9/19/2009 16:15	0.217	0.217	0.099	19.2	354	8.7	8.4		
9/19/2009 16:30	0.218	0.218	0.100	19.2	354	8.7	8.4		
9/19/2009 16:45	0.219	0.219	0.101	19.2	356	8.7	8.4		
9/19/2009 17:00	0.213	0.213	0.094	19.2	356	8.7	8.4		
9/19/2009 17:15	0.219	0.219	0.101	19.3	356	8.7	8.4		
9/19/2009 17:30	0.206	0.206	0.087	19.2	358	8.7	8.4		
9/19/2009 17:45	0.212	0.212	0.093	19.2	358	8.7	8.4		
9/19/2009 18:00	0.219	0.219	0.101	19.2	360	8.7	8.4		
9/19/2009 18:15	0.211	0.211	0.092	19.2	360	8.6	8.4		
9/19/2009 18:30	0.211	0.211	0.092	19.1	362	8.7	8.4		
9/19/2009 18:45	0.213	0.213	0.094	19.1	362	8.6	8.4		
9/19/2009 19:00	0.215	0.215	0.097	19.1	362	8.6	8.4		
9/19/2009 19:15	0.212	0.212	0.093	19.1	364	8.6	8.4		
9/19/2009 19:30	0.214	0.214	0.095	19	364	8.7	8.4		
9/19/2009 19:45	0.21	0.21	0.091	19	364	8.7	8.4		
9/19/2009 20:00	0.212	0.212	0.093	19	366	8.7	8.4		
9/19/2009 20:15	0.203	0.203	0.084	19	366	8.7	8.4		
9/19/2009 20:30	0.212	0.212	0.093	18.9	366	8.7	8.4		
9/19/2009 20:45	0.204	0.204	0.085	18.9	368	8.7	8.4		
9/19/2009 21:00	0.21	0.21	0.091	18.9	368	8.7	8.4		
9/19/2009 21:15	0.206	0.206	0.087	18.9	368	8.7	8.4		
9/19/2009 21:30	0.207	0.207	0.088	18.9	370	8.7	8.4		
9/19/2009 21:45	0.212	0.212	0.093	18.9	370	8.7	8.4		
9/19/2009 22:00	0.203	0.203	0.084	18.8	372	8.7	8.4		
9/19/2009 22:15	0.201	0.201	0.082	18.8	372	8.7	8.4		
9/19/2009 22:30	0.204	0.204	0.085	18.8	372	8.7	8.4		
9/19/2009 22:45	0.205	0.205	0.086	18.8	372	8.7	8.4		
9/19/2009 23:00	0.203	0.203	0.084	18.8	374	8.7	8.4		
9/19/2009 23:15	0.203	0.203	0.084	18.8	374	8.7	8.4		
9/19/2009 23:30	0.194	0.194	0.076	18.7	374	8.7	8.4		
9/19/2009 23:45	0.194	0.194	0.076	18.7	376	8.7	8.4		
9/20/2009 0:00	0.202	0.202	0.083	18.7	376	8.7	8.4		
9/20/2009 0:15	0.199	0.199	0.080	18.7	376	8.7	8.4		
9/20/2009 0:30	0.192	0.192	0.074	18.7	378	8.7	8.4		
9/20/2009 0:45	0.188	0.188	0.071	18.7	378	8.7	8.4		
9/20/2009 1:00	0.193	0.193	0.075	18.7	378	8.7	8.4		
9/20/2009 1:15	0.19	0.19	0.072	18.7	378	8.7	8.4		
9/20/2009 1:30	0.198	0.198	0.079	18.7	380	8.7	8.4		
9/20/2009 1:45	0.188	0.188	0.071	18.6	380	8.7	8.4		
9/20/2009 2:00	0.194	0.194	0.076	18.6	380	8.7	8.4		
9/20/2009 2:15	0.189	0.189	0.071	18.6	382	8.7	8.4		
9/20/2009 2:30	0.191	0.191	0.073	18.6	382	8.7	8.4		
9/20/2009 2:45	0.189	0.189	0.071	18.6	382	8.7	8.4		
9/20/2009 3:00	0.185	0.185	0.068	18.6	384	8.7	8.4		
9/20/2009 3:15	0.187	0.187	0.070	18.6	384	8.7	8.4		
9/20/2009 3:30	0.186	0.186	0.069	18.6	384	8.7	8.4		
9/20/2009 3:45	0.186	0.186	0.069	18.6	384	8.7	8.4		
9/20/2009 4:00	0.187	0.187	0.070	18.6	386	8.7	8.4		
9/20/2009 4:15	0.186	0.186	0.069	18.6	386	8.7	8.4		
9/20/2009 4:30	0.183	0.183	0.067	18.6	386	8.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/20/2009 4:45	0.182	0.182	0.066	18.6	388	8.7	8.4		
9/20/2009 5:00	0.182	0.182	0.066	18.5	388	8.7	8.4		
9/20/2009 5:15	0.182	0.182	0.066	18.5	388	8.7	8.4		
9/20/2009 5:30	0.187	0.187	0.070	18.5	390	8.7	8.4		
9/20/2009 5:45	0.184	0.184	0.067	18.5	390	8.7	8.4		
9/20/2009 6:00	0.181	0.181	0.065	18.5	390	8.7	8.4		
9/20/2009 6:15	0.187	0.187	0.070	18.5	392	8.8	8.3		
9/20/2009 6:30	0.18	0.18	0.064	18.5	392	8.7	8.3		
9/20/2009 6:45	0.184	0.184	0.067	18.5	392	8.7	8.3		
9/20/2009 7:00	0.186	0.186	0.069	18.5	392	8.8	8.3		
9/20/2009 7:15	0.178	0.178	0.063	18.5	394	8.8	8.3		
9/20/2009 7:30	0.18	0.18	0.064	18.5	394	8.8	8.3		
9/20/2009 7:45	0.181	0.181	0.065	18.5	394	8.8	8.3		
9/20/2009 8:00	0.182	0.182	0.066	18.5	394	8.8	8.3		
9/20/2009 8:15	0.178	0.178	0.063	18.6	394	8.8	8.3		
9/20/2009 8:30	0.182	0.182	0.066	18.6	388	8.8	8.3		
9/20/2009 8:45	0.185	0.185	0.068	18.6	386	8.7	8.3		
9/20/2009 9:00	0.193	0.193	0.075	18.6	382	8.7	8.3		
9/20/2009 9:15	0.201	0.201	0.082	18.7	360	8.7	8.3		
9/20/2009 9:30	0.221	0.221	0.104	18.7	350	8.7	8.3		
9/20/2009 9:45	0.247	0.247	0.140	18.7	346	8.7	8.3		
9/20/2009 10:00	0.247	0.247	0.140	18.8	346	8.7	8.3		
9/20/2009 10:15	0.484	0.484	2.205	18.7	336	8.9	8.3		
9/20/2009 10:30	0.436	0.436	1.262	18.7	290	8.9	8.3		
9/20/2009 10:45	0.428	0.428	1.150	18.7	240	8.9	8.3		
9/20/2009 11:00	0.427	0.427	1.136	18.7	224	8.8	8.3		
9/20/2009 11:15	0.421	0.421	1.060	18.8	218	8.8	8.3		
9/20/2009 11:30	0.413	0.413	0.966	18.8	212	8.8	8.3		
9/20/2009 11:45	0.421	0.421	1.060	18.8	210	8.8	8.3		
9/20/2009 12:00	0.435	0.435	1.247	18.8	210	8.8	8.3		
9/20/2009 12:15	0.462	0.462	1.707	18.8	212	8.8	8.3		
9/20/2009 12:30	0.476	0.476	2.009	18.8	216	8.8	8.3		
9/20/2009 12:45	0.483	0.483	2.179	18.7	216	8.9	8.4		
9/20/2009 13:00	0.47	0.47	1.874	18.7	212	8.9	8.4		
9/20/2009 13:15	0.47	0.47	1.874	18.7	210	8.9	8.3		
9/20/2009 13:30	0.473	0.473	1.940	18.7	206	8.9	8.3		13:29
9/20/2009 13:45	0.479	0.479	2.080	18.7	202	8.9	8.3		
9/20/2009 14:00	0.498	0.498	2.595	18.7	198	8.9	8.3		
9/20/2009 14:15	0.528	0.528	3.678	18.7	198	8.9	8.3		
9/20/2009 14:30	0.573	0.573	6.206	18.7	196	8.9	8.3		
9/20/2009 14:45	0.666	0.666	18.301	18.7	194	8.9	8.2		
9/20/2009 15:00	0.67	0.67	19.173	18.7	192	8.9	8.2		
9/20/2009 15:15	0.653	0.653	15.734	18.7	188	8.9	8.2		
9/20/2009 15:30	0.65	0.65	15.194	18.6	184	8.9	8.2		
9/20/2009 15:45	0.66	0.66	17.068	18.6	180	8.9	8.2		
9/20/2009 16:00	0.646	0.646	14.504	18.6	182	8.9	8.2		
9/20/2009 16:15	0.622	0.622	10.972	18.6	182	8.9	8.3		
9/20/2009 16:30	0.644	0.644	14.171	18.6	184	8.9	8.3		
9/20/2009 16:45	0.626	0.626	11.494	18.6	186	9	8.3		
9/20/2009 17:00	0.604	0.604	8.900	18.6	186	8.9	8.3		
9/20/2009 17:15	0.611	0.611	9.655	18.5	188	8.9	8.3		
9/20/2009 17:30	0.62	0.62	10.720	18.5	186	8.9	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/20/2009 17:45	0.622	0.622	10.972	18.5	186	9	8.3		
9/20/2009 18:00	0.584	0.584	7.053	18.5	186	9	8.3		
9/20/2009 18:15	0.568	0.568	5.856	18.5	186	8.9	8.3		
9/20/2009 18:30	0.582	0.582	6.891	18.5	188	8.9	8.3		
9/20/2009 18:45	0.557	0.557	5.153	18.5	188	8.9	8.3		
9/20/2009 19:00	0.564	0.564	5.590	18.4	188	8.9	8.2		
9/20/2009 19:15	0.585	0.585	7.136	18.4	188	8.9	8.3		
9/20/2009 19:30	0.567	0.567	5.788	18.4	188	8.9	8.3		
9/20/2009 19:45	0.619	0.619	10.596	18.4	188	8.9	8.3		
9/20/2009 20:00	0.587	0.587	7.304	18.4	190	8.9	8.3		
9/20/2009 20:15	0.541	0.541	4.278	18.4	190	8.9	8.3		
9/20/2009 20:30	0.548	0.548	4.641	18.4	190	8.9	8.3		
9/20/2009 20:45	0.54	0.54	4.229	18.4	190	8.9	8.3		
9/20/2009 21:00	0.549	0.549	4.695	18.3	192	8.9	8.3		
9/20/2009 21:15	0.541	0.541	4.278	18.3	192	8.9	8.3		
9/20/2009 21:30	0.537	0.537	4.084	18.3	192	8.9	8.3		
9/20/2009 21:45	0.511	0.511	3.018	18.3	192	8.9	8.3		
9/20/2009 22:00	0.506	0.506	2.848	18.3	192	8.9	8.3		
9/20/2009 22:15	0.506	0.506	2.848	18.3	192	8.9	8.3		
9/20/2009 22:30	0.501	0.501	2.687	18.3	192	8.9	8.3		
9/20/2009 22:45	0.488	0.488	2.310	18.3	194	8.9	8.3		
9/20/2009 23:00	0.492	0.492	2.420	18.3	186	8.9	8.2		
9/20/2009 23:15	0.488	0.488	2.310	18.3	186	8.9	8.3		
9/20/2009 23:30	0.48	0.48	2.105	18.3	186	8.9	8.3		
9/20/2009 23:45	0.479	0.479	2.080	18.3	184	8.9	8.3		
9/21/2009 0:00	0.5	0.5	2.656	18.3	184	8.9	8.2		
9/21/2009 0:15	0.491	0.491	2.392	18.3	184	8.9	8.2		
9/21/2009 0:30	0.477	0.477	2.033	18.3	184	8.9	8.2		
9/21/2009 0:45	0.477	0.477	2.033	18.3	184	8.9	8.3		
9/21/2009 1:00	0.504	0.504	2.782	18.3	182	8.9	8.3		
9/21/2009 1:15	0.494	0.494	2.477	18.4	180	8.9	8.2		
9/21/2009 1:30	0.514	0.514	3.125	18.4	178	8.9	8.2		
9/21/2009 1:45	0.569	0.569	5.924	18.4	176	8.9	8.2		
9/21/2009 2:00	0.592	0.592	7.741	18.4	170	9	8.2		
9/21/2009 2:15	0.616	0.616	10.233	18.4	170	8.9	8.2		
9/21/2009 2:30	0.601	0.601	8.595	18.4	164	8.9	8.2		
9/21/2009 2:45	0.609	0.609	9.433	18.4	162	8.9	8.2		
9/21/2009 3:00	0.627	0.627	11.629	18.4	160	8.9	8.2		
9/21/2009 3:15	0.615	0.615	10.114	18.4	160	8.9	8.2		
9/21/2009 3:30	0.59	0.59	7.563	18.4	160	8.9	8.2		
9/21/2009 3:45	0.608	0.608	9.324	18.4	162	8.9	8.2		
9/21/2009 4:00	0.599	0.599	8.397	18.4	162	8.9	8.2		
9/21/2009 4:15	0.597	0.597	8.204	18.4	162	8.9	8.2		
9/21/2009 4:30	0.642	0.642	13.845	18.4	162	8.9	8.2		
9/21/2009 4:45	0.592	0.592	7.741	18.4	164	8.9	8.2		
9/21/2009 5:00	0.577	0.577	6.502	18.4	164	8.9	8.2		
9/21/2009 5:15	0.584	0.584	7.053	18.4	164	8.9	8.2		
9/21/2009 5:30	0.59	0.59	7.563	18.4	164	8.9	8.2		
9/21/2009 5:45	0.574	0.574	6.279	18.3	164	8.9	8.2		
9/21/2009 6:00	0.605	0.605	9.004	18.3	164	8.9	8.2		
9/21/2009 6:15	0.571	0.571	6.064	18.3	166	8.9	8.2		
9/21/2009 6:30	0.567	0.567	5.788	18.3	166	8.9	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/21/2009 6:45	0.587	0.587	7.304	18.3	166	8.9	8.2		
9/21/2009 7:00	0.561	0.561	5.398	18.3	164	8.9	8.2		
9/21/2009 7:15	0.549	0.549	4.695	18.3	164	8.9	8.2		
9/21/2009 7:30	0.558	0.558	5.213	18.3	164	8.9	8.2		
9/21/2009 7:45	0.576	0.576	6.427	18.3	164	8.9	8.2		
9/21/2009 8:00	0.551	0.551	4.806	18.3	164	8.9	8.2		
9/21/2009 8:15	0.573	0.573	6.206	18.3	164	8.9	8.2		
9/21/2009 8:30	0.548	0.548	4.641	18.3	164	8.9	8.2		
9/21/2009 8:45	0.56	0.56	5.336	18.4	166	8.9	8.2		
9/21/2009 9:00	0.56	0.56	5.336	18.4	166	8.9	8.2		
9/21/2009 9:15	0.552	0.552	4.862	18.4	166	8.9	8.2		
9/21/2009 9:30	0.546	0.546	4.534	18.4	166	8.9	8.2		
9/21/2009 9:45	0.547	0.547	4.587	18.4	164	8.9	8.2		
9/21/2009 10:00	0.551	0.551	4.806	18.4	164	8.9	8.2		
9/21/2009 10:15	0.549	0.549	4.695	18.4	166	8.9	8.2		
9/21/2009 10:30	0.548	0.548	4.641	18.4	166	8.9	8.2		
9/21/2009 10:45	0.545	0.545	4.482	18.4	166	8.9	8.2		
9/21/2009 11:00	0.543	0.543	4.379	18.4	166	8.9	8.2		
9/21/2009 11:15	0.551	0.551	4.806	18.4	166	8.9	8.2		
9/21/2009 11:30	0.519	0.519	3.312	18.4	166	8.9	8.2		
9/21/2009 11:45	0.521	0.521	3.390	18.4	166	8.9	8.2		
9/21/2009 12:00	0.504	0.504	2.782	18.4	166	9	8.2		
9/21/2009 12:15	0.5	0.5	2.656	18.4	166	8.9	8.2		
9/21/2009 12:30	0.502	0.502	2.718	18.4	166	8.9	8.2		
9/21/2009 12:45	0.494	0.494	2.477	18.5	166	8.9	8.2		
9/21/2009 13:00	0.506	0.506	2.848	18.5	166	8.9	8.2		
9/21/2009 13:15	0.491	0.491	2.392	18.5	166	8.9	8.2		
9/21/2009 13:30	0.494	0.494	2.477	18.5	166	8.9	8.2		13:29
9/21/2009 13:45	0.493	0.493	2.448	18.5	166	8.9	8.2		
9/21/2009 14:00	0.486	0.486	2.257	18.5	168	8.9	8.2		
9/21/2009 14:15	0.484	0.484	2.205	18.5	168	8.9	8.2		
9/21/2009 14:30	0.483	0.483	2.179	18.5	168	8.9	8.2		
9/21/2009 14:45	0.479	0.479	2.080	18.5	168	8.9	8.2		
9/21/2009 15:00	0.478	0.478	2.056	18.5	168	8.9	8.2		
9/21/2009 15:15	0.477	0.477	2.033	18.5	168	8.9	8.2		
9/21/2009 15:30	0.474	0.474	1.963	18.5	168	8.9	8.2		
9/21/2009 15:45	0.472	0.472	1.918	18.5	168	8.9	8.2		
9/21/2009 16:00	0.468	0.468	1.831	18.5	168	8.9	8.2		
9/21/2009 16:15	0.467	0.467	1.809	18.4	170	8.9	8.2		
9/21/2009 16:30	0.467	0.467	1.809	18.4	170	8.9	8.2		
9/21/2009 16:45	0.461	0.461	1.688	18.4	170	8.9	8.2		
9/21/2009 17:00	0.464	0.464	1.747	18.4	170	8.9	8.2		
9/21/2009 17:15	0.465	0.465	1.768	18.4	168	8.9	8.2		
9/21/2009 17:30	0.47	0.47	1.874	18.4	168	8.9	8.2		
9/21/2009 17:45	0.474	0.474	1.963	18.5	168	8.9	8.1		
9/21/2009 18:00	0.48	0.48	2.105	18.5	168	8.9	8.1		
9/21/2009 18:15	0.49	0.49	2.364	18.5	168	8.9	8.1		
9/21/2009 18:30	0.493	0.493	2.448	18.4	168	8.9	8.1		
9/21/2009 18:45	0.493	0.493	2.448	18.4	168	8.9	8.1		
9/21/2009 19:00	0.491	0.491	2.392	18.4	168	8.9	8.1		
9/21/2009 19:15	0.491	0.491	2.392	18.4	170	8.9	8.1		
9/21/2009 19:30	0.481	0.481	2.129	18.4	168	8.9	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/21/2009 19:45	0.481	0.481	2.129	18.4	168	8.9	8.1		
9/21/2009 20:00	0.481	0.481	2.129	18.4	170	8.9	8.1		
9/21/2009 20:15	0.473	0.473	1.940	18.4	170	8.9	8.1		
9/21/2009 20:30	0.472	0.472	1.918	18.4	170	8.9	8.1		
9/21/2009 20:45	0.472	0.472	1.918	18.4	170	8.9	8.1		
9/21/2009 21:00	0.469	0.469	1.852	18.4	170	8.9	8.1		
9/21/2009 21:15	0.471	0.471	1.896	18.4	172	8.9	8.1		
9/21/2009 21:30	0.468	0.468	1.831	18.4	172	8.9	8.1		
9/21/2009 21:45	0.463	0.463	1.727	18.4	172	8.9	8.1		
9/21/2009 22:00	0.466	0.466	1.789	18.4	172	8.9	8.1		
9/21/2009 22:15	0.463	0.463	1.727	18.4	172	8.9	8.1		
9/21/2009 22:30	0.457	0.457	1.611	18.4	172	8.9	8.1		
9/21/2009 22:45	0.458	0.458	1.630	18.3	172	8.9	8.1		
9/21/2009 23:00	0.454	0.454	1.556	18.3	174	8.9	8.1		
9/21/2009 23:15	0.457	0.457	1.611	18.3	174	8.9	8.1		
9/21/2009 23:30	0.456	0.456	1.592	18.3	174	8.9	8.1		
9/21/2009 23:45	0.457	0.457	1.611	18.3	174	8.9	8.1		
9/22/2009 0:00	0.454	0.454	1.556	18.3	174	8.9	8.1		
9/22/2009 0:15	0.461	0.461	1.688	18.3	174	8.9	8.1		
9/22/2009 0:30	0.457	0.457	1.611	18.3	174	8.9	8.1		
9/22/2009 0:45	0.458	0.458	1.630	18.3	174	8.9	8.1		
9/22/2009 1:00	0.453	0.453	1.538	18.3	174	8.9	8.1		
9/22/2009 1:15	0.453	0.453	1.538	18.3	174	8.9	8.1		
9/22/2009 1:30	0.449	0.449	1.468	18.3	176	8.9	8.1		
9/22/2009 1:45	0.448	0.448	1.451	18.3	174	8.9	8.1		
9/22/2009 2:00	0.449	0.449	1.468	18.3	174	8.9	8.1		
9/22/2009 2:15	0.451	0.451	1.502	18.3	174	8.9	8.1		
9/22/2009 2:30	0.448	0.448	1.451	18.3	174	8.9	8.1		
9/22/2009 2:45	0.448	0.448	1.451	18.3	174	8.9	8.1		
9/22/2009 3:00	0.441	0.441	1.337	18.3	174	8.9	8.1		
9/22/2009 3:15	0.441	0.441	1.337	18.2	174	8.9	8.1		
9/22/2009 3:30	0.444	0.444	1.385	18.2	174	8.9	8.1		
9/22/2009 3:45	0.438	0.438	1.292	18.2	174	8.9	8.2		
9/22/2009 4:00	0.441	0.441	1.337	18.2	176	8.9	8.2		
9/22/2009 4:15	0.436	0.436	1.262	18.2	176	8.9	8.2		
9/22/2009 4:30	0.434	0.434	1.233	18.2	176	8.9	8.2		
9/22/2009 4:45	0.435	0.435	1.247	18.2	176	8.9	8.2		
9/22/2009 5:00	0.431	0.431	1.191	18.2	176	8.9	8.2		
9/22/2009 5:15	0.433	0.433	1.219	18.2	176	8.9	8.2		
9/22/2009 5:30	0.43	0.43	1.177	18.2	176	8.9	8.2		
9/22/2009 5:45	0.428	0.428	1.150	18.2	176	8.9	8.2		
9/22/2009 6:00	0.428	0.428	1.150	18.2	176	8.9	8.2		
9/22/2009 6:15	0.427	0.427	1.136	18.2	176	8.9	8.2		
9/22/2009 6:30	0.427	0.427	1.136	18.2	176	9	8.2		
9/22/2009 6:45	0.423	0.423	1.085	18.2	176	8.9	8.2		
9/22/2009 7:00	0.423	0.423	1.085	18.2	176	8.9	8.2		
9/22/2009 7:15	0.425	0.425	1.110	18.2	176	8.9	8.2		
9/22/2009 7:30	0.424	0.424	1.097	18.2	176	8.9	8.1		
9/22/2009 7:45	0.42	0.42	1.048	18.3	176	8.9	8.1		
9/22/2009 8:00	0.423	0.423	1.085	18.3	178	8.9	8.2		
9/22/2009 8:15	0.418	0.418	1.024	18.3	178	8.9	8.2		
9/22/2009 8:30	0.417	0.417	1.012	18.3	178	8.9	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/22/2009 8:45	0.417	0.417	1.012	18.3	178	8.9	8.2		
9/22/2009 9:00	0.417	0.417	1.012	18.3	178	8.9	8.2		
9/22/2009 9:15	0.414	0.414	0.977	18.4	178	8.9	8.2		
9/22/2009 9:30	0.411	0.411	0.944	18.4	178	8.9	8.2		
9/22/2009 9:45	0.413	0.413	0.966	18.4	178	8.9	8.2		
9/22/2009 10:00	0.408	0.408	0.911	18.5	178	8.9	8.2		
9/22/2009 10:15	0.408	0.408	0.911	18.6	178	8.9	8.2		
9/22/2009 10:30	0.409	0.409	0.922	18.7	178	8.9	8.2		
9/22/2009 10:45	0.407	0.407	0.901	18.8	178	8.9	8.2		
9/22/2009 11:00	0.407	0.407	0.901	18.9	180	8.9	8.3		
9/22/2009 11:15	0.407	0.407	0.901	18.9	180	8.9	8.2		
9/22/2009 11:30	0.408	0.408	0.911	18.9	180	8.8	8.3		
9/22/2009 11:45	0.406	0.406	0.890	19	180	8.8	8.3		
9/22/2009 12:00	0.405	0.405	0.880	19	180	8.8	8.3		
9/22/2009 12:15	0.404	0.404	0.870	19.1	180	8.8	8.3		
9/22/2009 12:30	0.401	0.401	0.840	19.1	180	8.8	8.3		
9/22/2009 12:45	0.404	0.404	0.870	19.1	180	8.8	8.3		
9/22/2009 13:00	0.401	0.401	0.840	19.1	182	8.7	8.3		
9/22/2009 13:15	0.401	0.401	0.840	19.1	182	8.8	8.3		
9/22/2009 13:30	0.399	0.399	0.821	19.1	182	8.8	8.3		13:29
9/22/2009 13:45	0.398	0.398	0.811	19.1	182	8.8	8.3		
9/22/2009 14:00	0.399	0.399	0.821	19.1	182	8.8	8.3		
9/22/2009 14:15	0.394	0.394	0.774	19.1	182	8.8	8.3		
9/22/2009 14:30	0.391	0.391	0.748	19.1	182	8.8	8.2		
9/22/2009 14:45	0.397	0.397	0.802	19.2	184	8.8	8.3		
9/22/2009 15:00	0.398	0.398	0.811	19.2	184	8.7	8.2		
9/22/2009 15:15	0.399	0.399	0.821	19.2	184	8.7	8.3		
9/22/2009 15:30	0.401	0.401	0.840	19.2	184	8.7	8.2		
9/22/2009 15:45	0.397	0.397	0.802	19.1	184	8.7	8.2		
9/22/2009 16:00	0.394	0.394	0.774	19.1	184	8.7	8.2		
9/22/2009 16:15	0.395	0.395	0.783	19.1	184	8.7	8.2		
9/22/2009 16:30	0.394	0.394	0.774	19.1	186	8.7	8.2		
9/22/2009 16:45	0.393	0.393	0.765	19.1	186	8.7	8.2		
9/22/2009 17:00	0.39	0.39	0.739	19.1	186	8.7	8.2		
9/22/2009 17:15	0.391	0.391	0.748	19.1	186	8.7	8.2		
9/22/2009 17:30	0.393	0.393	0.765	19.1	186	8.7	8.2		
9/22/2009 17:45	0.39	0.39	0.739	19.1	186	8.7	8.2		
9/22/2009 18:00	0.393	0.393	0.765	19	188	8.7	8.2		
9/22/2009 18:15	0.389	0.389	0.731	19	188	8.7	8.2		
9/22/2009 18:30	0.387	0.387	0.714	19	188	8.7	8.2		
9/22/2009 18:45	0.385	0.385	0.697	19	188	8.7	8.2		
9/22/2009 19:00	0.384	0.384	0.689	18.9	188	8.7	8.1		
9/22/2009 19:15	0.387	0.387	0.714	18.9	190	8.7	8.2		
9/22/2009 19:30	0.383	0.383	0.681	18.9	190	8.7	8.2		
9/22/2009 19:45	0.386	0.386	0.706	18.9	190	8.7	8.2		
9/22/2009 20:00	0.383	0.383	0.681	18.8	190	8.7	8.2		
9/22/2009 20:15	0.382	0.382	0.673	18.8	190	8.8	8.2		
9/22/2009 20:30	0.382	0.382	0.673	18.8	190	8.8	8.2		
9/22/2009 20:45	0.384	0.384	0.689	18.8	192	8.8	8.2		
9/22/2009 21:00	0.379	0.379	0.650	18.8	192	8.8	8.2		
9/22/2009 21:15	0.379	0.379	0.650	18.8	192	8.8	8.2		
9/22/2009 21:30	0.377	0.377	0.635	18.8	192	8.8	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/22/2009 21:45	0.378	0.378	0.643	18.7	192	8.8	8.2		
9/22/2009 22:00	0.378	0.378	0.643	18.7	192	8.8	8.2		
9/22/2009 22:15	0.378	0.378	0.643	18.7	194	8.8	8.2		
9/22/2009 22:30	0.376	0.376	0.628	18.7	194	8.8	8.2		
9/22/2009 22:45	0.377	0.377	0.635	18.7	194	8.8	8.2		
9/22/2009 23:00	0.376	0.376	0.628	18.7	194	8.8	8.2		
9/22/2009 23:15	0.376	0.376	0.628	18.6	194	8.8	8.2		
9/22/2009 23:30	0.373	0.373	0.607	18.6	194	8.8	8.2		
9/22/2009 23:45	0.376	0.376	0.628	18.6	196	8.8	8.2		
9/23/2009 0:00	0.375	0.375	0.621	18.6	196	8.8	8.2		
9/23/2009 0:15	0.374	0.374	0.614	18.6	196	8.8	8.2		
9/23/2009 0:30	0.374	0.374	0.614	18.6	196	8.8	8.2		
9/23/2009 0:45	0.371	0.371	0.593	18.6	196	8.8	8.2		
9/23/2009 1:00	0.373	0.373	0.607	18.5	196	8.8	8.2		
9/23/2009 1:15	0.373	0.373	0.607	18.5	198	8.8	8.2		
9/23/2009 1:30	0.371	0.371	0.593	18.5	198	8.8	8.2		
9/23/2009 1:45	0.371	0.371	0.593	18.5	198	8.8	8.2		
9/23/2009 2:00	0.369	0.369	0.579	18.5	198	8.8	8.2		
9/23/2009 2:15	0.369	0.369	0.579	18.5	198	8.8	8.2		
9/23/2009 2:30	0.37	0.37	0.586	18.5	198	8.8	8.2		
9/23/2009 2:45	0.369	0.369	0.579	18.5	200	8.8	8.2		
9/23/2009 3:00	0.369	0.369	0.579	18.5	200	8.8	8.2		
9/23/2009 3:15	0.37	0.37	0.586	18.4	200	8.8	8.2		
9/23/2009 3:30	0.368	0.368	0.572	18.4	200	8.8	8.2		
9/23/2009 3:45	0.369	0.369	0.579	18.4	200	8.8	8.2		
9/23/2009 4:00	0.372	0.372	0.600	18.4	200	8.8	8.2		
9/23/2009 4:15	0.371	0.371	0.593	18.4	202	8.8	8.2		
9/23/2009 4:30	0.371	0.371	0.593	18.4	202	8.8	8.2		
9/23/2009 4:45	0.369	0.369	0.579	18.4	202	8.8	8.2		
9/23/2009 5:00	0.368	0.368	0.572	18.4	202	8.8	8.2		
9/23/2009 5:15	0.368	0.368	0.572	18.4	202	8.8	8.2		
9/23/2009 5:30	0.379	0.379	0.650	18.4	204	8.8	8.2		
9/23/2009 5:45	0.382	0.382	0.673	18.4	204	8.8	8.2		
9/23/2009 6:00	0.375	0.375	0.621	18.3	204	8.8	8.2		
9/23/2009 6:15	0.366	0.366	0.559	18.3	204	8.8	8.2		
9/23/2009 6:30	0.375	0.375	0.621	18.3	204	8.8	8.2		
9/23/2009 6:45	0.372	0.372	0.600	18.3	204	8.8	8.2		
9/23/2009 7:00	0.384	0.384	0.689	18.3	204	8.8	8.2		
9/23/2009 7:15	0.374	0.374	0.614	18.3	206	8.8	8.2		
9/23/2009 7:30	0.378	0.378	0.643	18.3	206	8.8	8.2		
9/23/2009 7:45	0.373	0.373	0.607	18.4	206	8.8	8.2		
9/23/2009 8:00	0.374	0.374	0.614	18.4	206	8.8	8.2		
9/23/2009 8:15	0.368	0.368	0.572	18.4	206	8.8	8.2		
9/23/2009 8:30	0.369	0.369	0.579	18.4	206	8.8	8.2		
9/23/2009 8:45	0.375	0.375	0.621	18.4	206	8.8	8.2		
9/23/2009 9:00	0.364	0.364	0.546	18.5	208	8.8	8.3		
9/23/2009 9:15	0.376	0.376	0.628	18.6	208	8.8	8.2		
9/23/2009 9:30	0.368	0.368	0.572	18.6	208	8.8	8.3		
9/23/2009 9:45	0.373	0.373	0.607	18.7	208	8.8	8.3		
9/23/2009 10:00	0.375	0.375	0.621	18.8	208	8.8	8.3		
9/23/2009 10:15	0.377	0.377	0.635	18.9	210	8.8	8.3		
9/23/2009 10:30	0.371	0.371	0.593	19.1	210	8.8	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/23/2009 10:45	0.374	0.374	0.614	19.1	210	8.8	8.3		
9/23/2009 11:00	0.372	0.372	0.600	19.1	210	8.7	8.3		
9/23/2009 11:15	0.375	0.375	0.621	19.2	210	8.7	8.3		
9/23/2009 11:30	0.369	0.369	0.579	19.3	212	8.7	8.3		
9/23/2009 11:45	0.371	0.371	0.593	19.3	212	8.7	8.3		
9/23/2009 12:00	0.371	0.371	0.593	19.3	212	8.7	8.3		
9/23/2009 12:15	0.367	0.367	0.566	19.4	212	8.7	8.3		
9/23/2009 12:30	0.364	0.364	0.546	19.5	212	8.7	8.3		
9/23/2009 12:45	0.366	0.366	0.559	19.5	212	8.7	8.3		
9/23/2009 13:00	0.363	0.363	0.540	19.5	214	8.6	8.3		
9/23/2009 13:15	0.368	0.368	0.572	19.6	214	8.6	8.3		
9/23/2009 13:30	0.371	0.371	0.593	19.6	214	8.6	8.3		
9/23/2009 13:45	0.361	0.361	0.528	19.7	214	8.6	8.3		
9/23/2009 14:00	0.357	0.357	0.504	19.7	214	8.6	8.3		
9/23/2009 14:15	0.356	0.356	0.498	19.7	216	8.6	8.3		
9/23/2009 14:30	0.36	0.36	0.521	19.7	216	8.6	8.3		
9/23/2009 14:45	0.358	0.358	0.509	19.7	216	8.6	8.3		
9/23/2009 15:00	0.353	0.353	0.481	19.8	216	8.6	8.3		
9/23/2009 15:15	0.36	0.36	0.521	19.8	216	8.6	8.3		
9/23/2009 15:30	0.358	0.358	0.509	19.8	218	8.5	8.3		
9/23/2009 15:45	0.36	0.36	0.521	19.8	218	8.6	8.3		
9/23/2009 16:00	0.352	0.352	0.475	19.7	218	8.5	8.3		
9/23/2009 16:15	0.356	0.356	0.498	19.7	218	8.6	8.3		
9/23/2009 16:30	0.359	0.359	0.515	19.7	218	8.5	8.3		
9/23/2009 16:45	0.35	0.35	0.464	19.7	220	8.5	8.3		
9/23/2009 17:00	0.357	0.357	0.504	19.7	220	8.5	8.3		
9/23/2009 17:15	0.334	0.334	0.385	19.6	220	8.5	8.3		
9/23/2009 17:30	0.351	0.351	0.470	19.6	220	8.5	8.3		
9/23/2009 17:45	0.357	0.357	0.504	19.6	220	8.5	8.3		
9/23/2009 18:00	0.348	0.348	0.454	19.5	222	8.5	8.2		
9/23/2009 18:15	0.353	0.353	0.481	19.5	222	8.5	8.2		
9/23/2009 18:30	0.354	0.354	0.486	19.4	222	8.5	8.2		
9/23/2009 18:45	0.351	0.351	0.470	19.4	222	8.5	8.2		
9/23/2009 19:00	0.349	0.349	0.459	19.4	222	8.5	8.2		
9/23/2009 19:15	0.352	0.352	0.475	19.3	222	8.5	8.2		
9/23/2009 19:30	0.35	0.35	0.464	19.3	224	8.6	8.2		
9/23/2009 19:45	0.355	0.355	0.492	19.3	224	8.6	8.2		
9/23/2009 20:00	0.345	0.345	0.438	19.3	224	8.6	8.2		
9/23/2009 20:15	0.349	0.349	0.459	19.3	224	8.6	8.2		
9/23/2009 20:30	0.349	0.349	0.459	19.2	226	8.6	8.2		
9/23/2009 20:45	0.355	0.355	0.492	19.2	226	8.6	8.2		
9/23/2009 21:00	0.344	0.344	0.433	19.2	226	8.6	8.2		
9/23/2009 21:15	0.349	0.349	0.459	19.2	226	8.6	8.2		
9/23/2009 21:30	0.327	0.327	0.355	19.2	226	8.6	8.2		
9/23/2009 21:45	0.338	0.338	0.404	19.1	226	8.6	8.2		
9/23/2009 22:00	0.328	0.328	0.359	19.1	228	8.6	8.2		
9/23/2009 22:15	0.345	0.345	0.438	19.1	228	8.6	8.2		
9/23/2009 22:30	0.349	0.349	0.459	19.1	228	8.6	8.2		
9/23/2009 22:45	0.347	0.347	0.448	19.1	228	8.6	8.2		
9/23/2009 23:00	0.345	0.345	0.438	19.1	228	8.7	8.2		
9/23/2009 23:15	0.345	0.345	0.438	19.1	228	8.6	8.2		
9/23/2009 23:30	0.324	0.324	0.343	19.1	230	8.6	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/23/2009 23:45	0.339	0.339	0.408	19	230	8.6	8.2		
9/24/2009 0:00	0.348	0.348	0.454	19	230	8.6	8.2		
9/24/2009 0:15	0.332	0.332	0.377	19	230	8.6	8.2		
9/24/2009 0:30	0.321	0.321	0.331	19	230	8.6	8.2		
9/24/2009 0:45	0.346	0.346	0.443	19	232	8.6	8.2		
9/24/2009 1:00	0.323	0.323	0.339	19	232	8.7	8.2		
9/24/2009 1:15	0.345	0.345	0.438	19	232	8.6	8.2		
9/24/2009 1:30	0.342	0.342	0.423	19	232	8.6	8.2		
9/24/2009 1:45	0.346	0.346	0.443	19	232	8.6	8.2		
9/24/2009 2:00	0.344	0.344	0.433	19	232	8.6	8.2		
9/24/2009 2:15	0.35	0.35	0.464	19	232	8.6	8.2		
9/24/2009 2:30	0.335	0.335	0.390	19	234	8.6	8.2		
9/24/2009 2:45	0.347	0.347	0.448	18.9	234	8.6	8.2		
9/24/2009 3:00	0.349	0.349	0.459	18.9	234	8.6	8.2		
9/24/2009 3:15	0.321	0.321	0.331	18.9	234	8.6	8.2		
9/24/2009 3:30	0.339	0.339	0.408	18.9	234	8.6	8.2		
9/24/2009 3:45	0.341	0.341	0.418	18.9	234	8.6	8.2		
9/24/2009 4:00	0.343	0.343	0.428	18.9	236	8.6	8.2		
9/24/2009 4:15	0.343	0.343	0.428	18.9	236	8.6	8.2		
9/24/2009 4:30	0.335	0.335	0.390	18.9	236	8.6	8.2		
9/24/2009 4:45	0.346	0.346	0.443	18.9	236	8.6	8.2		
9/24/2009 5:00	0.336	0.336	0.394	18.9	236	8.6	8.2		
9/24/2009 5:15	0.321	0.321	0.331	18.8	236	8.6	8.2		
9/24/2009 5:30	0.338	0.338	0.404	18.8	238	8.6	8.2		
9/24/2009 5:45	0.319	0.319	0.324	18.8	238	8.6	8.2		
9/24/2009 6:00	0.343	0.343	0.428	18.8	238	8.6	8.2		
9/24/2009 6:15	0.342	0.342	0.423	18.8	238	8.6	8.2		
9/24/2009 6:30	0.345	0.345	0.438	18.8	238	8.6	8.2		
9/24/2009 6:45	0.329	0.329	0.364	18.8	238	8.6	8.2		
9/24/2009 7:00	0.334	0.334	0.385	18.8	238	8.6	8.2		
9/24/2009 7:15	0.318	0.318	0.320	18.8	240	8.6	8.2		
9/24/2009 7:30	0.345	0.345	0.438	18.8	240	8.7	8.2		
9/24/2009 7:45	0.323	0.323	0.339	18.8	240	8.7	8.2		
9/24/2009 8:00	0.343	0.343	0.428	18.8	240	8.7	8.2		
9/24/2009 8:15	0.344	0.344	0.433	18.9	240	8.7	8.3		
9/24/2009 8:30	0.318	0.318	0.320	18.9	240	8.7	8.3		
9/24/2009 8:45	0.342	0.342	0.423	19	240	8.7	8.3		
9/24/2009 9:00	0.332	0.332	0.377	19	242	8.7	8.3		
9/24/2009 9:15	0.336	0.336	0.394	19.1	242	8.7	8.3		
9/24/2009 9:30	0.337	0.337	0.399	19.1	242	8.7	8.3		
9/24/2009 9:45	0.338	0.338	0.404	19.1	244	8.6	8.3		
9/24/2009 10:00	**0.326475**	**0.326475**	**0.353**		**244**			* (6)	
9/24/2009 10:15	**0.31495**	**0.31495**	**0.309**		**244**				
9/24/2009 10:30	**0.303425**	**0.303425**	**0.270**		**245**				
9/24/2009 10:45	0.2919	0.2919	0.236		**245**				
9/24/2009 11:00	0.304	0.304	0.272		**245**				
9/24/2009 11:15	0.29	0.29	0.231		**245**				
9/24/2009 11:30	0.311	0.311	0.295		**245**				
9/24/2009 11:45	0.3096	0.3096	0.290		**246**				
9/24/2009 12:00	*0.2135*	***0.3235***	***0.341***		**246**			* (7)	
9/24/2009 12:15	*0.2139*	***0.3239***	***0.343***	20	246	8.6	8.4		
9/24/2009 12:30	*0.2133*	***0.3233***	***0.340***	20.1	248	8.6	8.4		12:21

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/24/2009 12:45	*0.2126*	***0.3226***	***0.338***	20.2	248	8.7	8.4		
9/24/2009 13:00	*0.2133*	***0.3233***	***0.340***	20.2	248	8.6	8.4		
9/24/2009 13:15	*0.2133*	***0.3233***	***0.340***	20.2	250	8.6	8.4		
9/24/2009 13:30	*0.2126*	***0.3226***	***0.338***	20.3	250	8.6	8.4		
9/24/2009 13:45	*0.2134*	***0.3234***	***0.341***	20.3	250	8.6	8.4		
9/24/2009 14:00	*0.2133*	***0.3233***	***0.340***	20.3	250	8.6	8.4		
9/24/2009 14:15	*0.2124*	***0.3224***	***0.337***	20.3	250	8.5	8.4		
9/24/2009 14:30	*0.2122*	***0.3222***	***0.336***	20.3	250	8.5	8.4		
9/24/2009 14:45	*0.2129*	***0.3229***	***0.339***	20.3	252	8.5	8.4		
9/24/2009 15:00	*0.2123*	***0.3223***	***0.336***	20.4	252	8.5	8.4		
9/24/2009 15:15	*0.2121*	***0.3221***	***0.336***	20.4	252	8.5	8.4		
9/24/2009 15:30	*0.2119*	***0.3219***	***0.335***	20.4	252	8.5	8.4		
9/24/2009 15:45	*0.2116*	***0.3216***	***0.334***	20.4	252	8.5	8.4		
9/24/2009 16:00	*0.2109*	***0.3209***	***0.331***	20.4	252	8.4	8.4		
9/24/2009 16:15	*0.2106*	***0.3206***	***0.330***	20.4	254	8.4	8.4		
9/24/2009 16:30	*0.2103*	***0.3203***	***0.329***	20.3	256	8.5	8.4		
9/24/2009 16:45	*0.2118*	***0.3218***	***0.334***	20.3	256	8.5	8.4		
9/24/2009 17:00	*0.2114*	***0.3214***	***0.333***	20.3	256	8.5	8.3		
9/24/2009 17:15	*0.2106*	***0.3206***	***0.330***	20.2	256	8.5	8.3		
9/24/2009 17:30	*0.2106*	***0.3206***	***0.330***	20.2	256	8.5	8.3		
9/24/2009 17:45	*0.2101*	***0.3201***	***0.328***	20.1	256	8.5	8.3		
9/24/2009 18:00	*0.2121*	***0.3221***	***0.336***	20.1	256	8.5	8.3		
9/24/2009 18:15	*0.2125*	***0.3225***	***0.337***	20	258	8.5	8.3		
9/24/2009 18:30	*0.2121*	***0.3221***	***0.336***	20	258	8.5	8.3		
9/24/2009 18:45	*0.2118*	***0.3218***	***0.334***	20	258	8.5	8.3		
9/24/2009 19:00	*0.2113*	***0.3213***	***0.332***	19.9	258	8.5	8.3		
9/24/2009 19:15	*0.2114*	***0.3214***	***0.333***	19.9	258	8.5	8.3		
9/24/2009 19:30	*0.2126*	***0.3226***	***0.338***	19.8	260	8.5	8.3		
9/24/2009 19:45	*0.2116*	***0.3216***	***0.334***	19.8	260	8.5	8.3		
9/24/2009 20:00	*0.2117*	***0.3217***	***0.334***	19.8	260	8.5	8.3		
9/24/2009 20:15	*0.2105*	***0.3205***	***0.329***	19.7	260	8.5	8.3		
9/24/2009 20:30	*0.2116*	***0.3216***	***0.334***	19.7	262	8.5	8.3		
9/24/2009 20:45	*0.211*	***0.321***	***0.331***	19.7	262	8.5	8.3		
9/24/2009 21:00	*0.2116*	***0.3216***	***0.334***	19.6	262	8.5	8.3		
9/24/2009 21:15	*0.2136*	***0.3236***	***0.341***	19.6	262	8.6	8.3		
9/24/2009 21:30	*0.2115*	***0.3215***	***0.333***	19.6	262	8.6	8.3		
9/24/2009 21:45	*0.2108*	***0.3208***	***0.331***	19.6	264	8.6	8.3		
9/24/2009 22:00	*0.2106*	***0.3206***	***0.330***	19.5	264	8.6	8.3		
9/24/2009 22:15	*0.2106*	***0.3206***	***0.330***	19.5	264	8.6	8.3		
9/24/2009 22:30	*0.2111*	***0.3211***	***0.332***	19.5	264	8.6	8.3		
9/24/2009 22:45	*0.2111*	***0.3211***	***0.332***	19.5	260	8.6	8.3		
9/24/2009 23:00	*0.2112*	***0.3212***	***0.332***	19.5	258	8.6	8.3		
9/24/2009 23:15	*0.211*	***0.321***	***0.331***	19.5	252	8.6	8.3		
9/24/2009 23:30	*0.2109*	***0.3209***	***0.331***	19.5	256	8.6	8.3		
9/24/2009 23:45	*0.2102*	***0.3202***	***0.328***	19.4	256	8.6	8.3		
9/25/2009 0:00	*0.2102*	***0.3202***	***0.328***	19.4	252	8.6	8.3		
9/25/2009 0:15	*0.2104*	***0.3204***	***0.329***	19.4	252	8.6	8.2		
9/25/2009 0:30	*0.2111*	***0.3211***	***0.332***	19.4	252	8.6	8.2		
9/25/2009 0:45	*0.211*	***0.321***	***0.331***	19.4	254	8.6	8.2		
9/25/2009 1:00	*0.2106*	***0.3206***	***0.330***	19.4	256	8.6	8.3		
9/25/2009 1:15	*0.2107*	***0.3207***	***0.330***	19.4	258	8.6	8.3		
9/25/2009 1:30	*0.2109*	***0.3209***	***0.331***	19.4	260	8.6	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/25/2009 1:45	*0.2109*	***0.3209***	***0.331***	19.3	260	8.6	8.2		
9/25/2009 2:00	*0.2112*	***0.3212***	***0.332***	19.3	260	8.6	8.2	* (8)	
9/25/2009 2:15	*0.239*	*0.239*	*0.128*	19.3	260	8.6	8.2		
9/25/2009 2:30	*0.238*	*0.238*	*0.126*	19.3	260	8.6	8.2		
9/25/2009 2:45	*0.236*	*0.236*	*0.123*	19.3	262	8.6	8.2		
9/25/2009 3:00	*0.238*	*0.238*	*0.126*	19.3	262	8.6	8.2		
9/25/2009 3:15	*0.243*	*0.243*	*0.134*	19.3	262	8.6	8.2		
9/25/2009 3:30	*0.246*	*0.246*	*0.139*	19.3	264	8.6	8.2		
9/25/2009 3:45	*0.239*	*0.239*	*0.128*	19.3	264	8.6	8.2		
9/25/2009 4:00	*0.241*	*0.241*	*0.131*	19.3	266	8.6	8.2		
9/25/2009 4:15	*0.248*	*0.248*	*0.142*	19.3	266	8.6	8.2		
9/25/2009 4:30	*0.25*	*0.25*	*0.145*	19.2	266	8.6	8.2		
9/25/2009 4:45	*0.242*	*0.242*	*0.132*	19.2	266	8.6	8.2		
9/25/2009 5:00	*0.244*	*0.244*	*0.135*	19.2	266	8.6	8.2		
9/25/2009 5:15	*0.242*	*0.242*	*0.132*	19.2	268	8.6	8.2		
9/25/2009 5:30	*0.247*	*0.247*	*0.140*	19.2	268	8.6	8.2		
9/25/2009 5:45	*0.244*	*0.244*	*0.135*	19.2	268	8.6	8.2		
9/25/2009 6:00	*0.241*	*0.241*	*0.131*	19.2	268	8.6	8.2		
9/25/2009 6:15	*0.246*	*0.246*	*0.139*	19.2	270	8.6	8.2		
9/25/2009 6:30	*0.25*	*0.25*	*0.145*	19.2	270	8.6	8.2		
9/25/2009 6:45	*0.235*	*0.235*	*0.122*	19.2	270	8.6	8.2		
9/25/2009 7:00	*0.243*	*0.243*	*0.134*	19.2	270	8.6	8.2		
9/25/2009 7:15	*0.242*	*0.242*	*0.132*	19.2	272	8.6	8.2		
9/25/2009 7:30	*0.239*	*0.239*	*0.128*	19.2	272	8.6	8.2		
9/25/2009 7:45	*0.245*	*0.245*	*0.137*	19.2	272	8.6	8.2		
9/25/2009 8:00	*0.248*	*0.248*	*0.142*	19.2	274	8.7	8.2		
9/25/2009 8:15	*0.249*	*0.249*	*0.143*	19.2	274	8.7	8.2		
9/25/2009 8:30	*0.239*	*0.239*	*0.128*	19.2	274	8.7	8.2		
9/25/2009 8:45	*0.243*	*0.243*	*0.134*	19.3	274	8.7	8.3		
9/25/2009 9:00	*0.244*	*0.244*	*0.135*	19.4	274	8.7	8.3		
9/25/2009 9:15	*0.247*	*0.247*	*0.140*	19.4	276	8.7	8.3		
9/25/2009 9:30	*0.239*	*0.239*	*0.128*	19.5	276	8.7	8.3		
9/25/2009 9:45	*0.238*	*0.238*	*0.126*	19.6	276	8.7	8.3		
9/25/2009 10:00	*0.24*	*0.24*	*0.129*	19.7	276	8.7	8.3		
9/25/2009 10:15	*0.236*	*0.236*	*0.123*	19.9	276	8.7	8.4		
9/25/2009 10:30	*0.247*	*0.247*	*0.140*	19.9	278	8.7	8.4		
9/25/2009 10:45	*0.237*	*0.237*	*0.125*	20.1	278	8.7	8.4		
9/25/2009 11:00	*0.237*	*0.237*	*0.125*	20.4	294	8.6	8.4		
9/25/2009 11:15	*0.245*	*0.245*	*0.137*	20.5	296	8.6	8.4		
9/25/2009 11:30	*0.239*	*0.239*	*0.128*	20.6	298	8.6	8.4		
9/25/2009 11:45	*0.244*	*0.244*	*0.135*	20.7	302	8.6	8.4		
9/25/2009 12:00	*0.24*	*0.24*	*0.129*	20.7	304	8.5	8.4		
9/25/2009 12:15	*0.243*	*0.243*	*0.134*	20.7	304	8.5	8.4		12:21
9/25/2009 12:30	*0.247*	*0.247*	*0.140*	20.6	306	8.5	8.4		
9/25/2009 12:45	*0.241*	*0.241*	*0.131*	20.5	306	8.5	8.4		
9/25/2009 13:00	*0.247*	*0.247*	*0.140*	20.5	304	8.5	8.4		
9/25/2009 13:15	*0.237*	*0.237*	*0.125*	20.4	304	8.4	8.4		
9/25/2009 13:30	*0.242*	*0.242*	*0.132*	20.4	302	8.4	8.4		
9/25/2009 13:45	*0.237*	*0.237*	*0.125*	20.4	302	8.5	8.4		
9/25/2009 14:00	*0.246*	*0.246*	*0.139*	20.4	302	8.5	8.4		
9/25/2009 14:15	*0.246*	*0.246*	*0.139*	20.4	302	8.5	8.4		
9/25/2009 14:30	*0.239*	*0.239*	*0.128*	20.4	302	8.5	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/25/2009 14:45	*0.243*	*0.243*	*0.134*	20.4	302	8.5	8.4		
9/25/2009 15:00	*0.238*	*0.238*	*0.126*	20.3	304	8.5	8.4		
9/25/2009 15:15	*0.241*	*0.241*	*0.131*	20.3	304	8.4	8.4		
9/25/2009 15:30	*0.234*	*0.234*	*0.120*	20.2	304	8.5	8.4		
9/25/2009 15:45	*0.241*	*0.241*	*0.131*	20.2	304	8.4	8.3		
9/25/2009 16:00	*0.239*	*0.239*	*0.128*	20.1	304	8.4	8.3		
9/25/2009 16:15	*0.243*	*0.243*	*0.134*	20.1	304	8.4	8.3		
9/25/2009 16:30	*0.24*	*0.24*	*0.129*	20.1	304	8.4	8.3		
9/25/2009 16:45	*0.243*	*0.243*	*0.134*	20.1	304	8.5	8.3		
9/25/2009 17:00	*0.243*	*0.243*	*0.134*	20	304	8.5	8.3		
9/25/2009 17:15	*0.245*	*0.245*	*0.137*	20	304	8.5	8.3		
9/25/2009 17:30	*0.257*	*0.257*	*0.157*	20	304	8.5	8.3		
9/25/2009 17:45	*0.243*	*0.243*	*0.134*	20	304	8.5	8.3		
9/25/2009 18:00	*0.245*	*0.245*	*0.137*	19.9	304	8.5	8.3		
9/25/2009 18:15	*0.248*	*0.248*	*0.142*	19.9	304	8.5	8.3		
9/25/2009 18:30	*0.238*	*0.238*	*0.126*	19.9	306	8.5	8.3		
9/25/2009 18:45	*0.245*	*0.245*	*0.137*	19.9	306	8.5	8.3		
9/25/2009 19:00	*0.244*	*0.244*	*0.135*	19.8	306	8.5	8.3		
9/25/2009 19:15	*0.241*	*0.241*	*0.131*	19.8	306	8.5	8.3		
9/25/2009 19:30	*0.239*	*0.239*	*0.128*	19.8	304	8.5	8.3		
9/25/2009 19:45	*0.239*	*0.239*	*0.128*	19.8	304	8.5	8.3		
9/25/2009 20:00	*0.24*	*0.24*	*0.129*	19.7	306	8.5	8.3		
9/25/2009 20:15	*0.239*	*0.239*	*0.128*	19.7	306	8.5	8.3		
9/25/2009 20:30	*0.244*	*0.244*	*0.135*	19.7	306	8.5	8.3		
9/25/2009 20:45	*0.238*	*0.238*	*0.126*	19.7	306	8.5	8.3		
9/25/2009 21:00	*0.241*	*0.241*	*0.131*	19.7	306	8.5	8.3		
9/25/2009 21:15	*0.239*	*0.239*	*0.128*	19.6	306	8.5	8.3		
9/25/2009 21:30	*0.24*	*0.24*	*0.129*	19.6	306	8.5	8.3		
9/25/2009 21:45	*0.238*	*0.238*	*0.126*	19.6	308	8.5	8.3		
9/25/2009 22:00	*0.243*	*0.243*	*0.134*	19.6	308	8.6	8.3		
9/25/2009 22:15	*0.244*	*0.244*	*0.135*	19.6	308	8.5	8.3		
9/25/2009 22:30	*0.247*	*0.247*	*0.140*	19.5	308	8.5	8.3		
9/25/2009 22:45	*0.237*	*0.237*	*0.125*	19.5	308	8.6	8.3		
9/25/2009 23:00	*0.241*	*0.241*	*0.131*	19.5	308	8.6	8.3		
9/25/2009 23:15	*0.235*	*0.235*	*0.122*	19.5	308	8.6	8.3		
9/25/2009 23:30	*0.241*	*0.241*	*0.131*	19.5	308	8.6	8.3		
9/25/2009 23:45	*0.245*	*0.245*	*0.137*	19.5	308	8.6	8.3		
9/26/2009 0:00	*0.235*	*0.235*	*0.122*	19.5	308	8.6	8.3		
9/26/2009 0:15	*0.239*	*0.239*	*0.128*	19.5	310	8.6	8.3		
9/26/2009 0:30	*0.242*	*0.242*	*0.132*	19.4	308	8.6	8.3		
9/26/2009 0:45	*0.241*	*0.241*	*0.131*	19.4	310	8.6	8.3		
9/26/2009 1:00	*0.245*	*0.245*	*0.137*	19.4	310	8.6	8.3		
9/26/2009 1:15	*0.238*	*0.238*	*0.126*	19.4	310	8.6	8.3		
9/26/2009 1:30	*0.24*	*0.24*	*0.129*	19.4	310	8.6	8.3		
9/26/2009 1:45	*0.241*	*0.241*	*0.131*	19.4	310	8.6	8.3		
9/26/2009 2:00	*0.238*	*0.238*	*0.126*	19.4	310	8.6	8.3		
9/26/2009 2:15	*0.236*	*0.236*	*0.123*	19.3	310	8.6	8.3		
9/26/2009 2:30	*0.235*	*0.235*	*0.122*	19.3	312	8.6	8.3		
9/26/2009 2:45	*0.237*	*0.237*	*0.125*	19.3	312	8.6	8.3		
9/26/2009 3:00	*0.233*	*0.233*	*0.119*	19.3	312	8.6	8.3		
9/26/2009 3:15	*0.235*	*0.235*	*0.122*	19.3	312	8.6	8.3		
9/26/2009 3:30	*0.235*	*0.235*	*0.122*	19.3	314	8.6	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/26/2009 3:45	*0.235*	*0.235*	*0.122*	19.3	314	8.6	8.3		
9/26/2009 4:00	*0.236*	*0.236*	*0.123*	19.2	314	8.6	8.3		
9/26/2009 4:15	*0.238*	*0.238*	*0.126*	19.2	314	8.6	8.3		
9/26/2009 4:30	*0.235*	*0.235*	*0.122*	19.2	316	8.6	8.3		
9/26/2009 4:45	*0.235*	*0.235*	*0.122*	19.2	316	8.6	8.3		
9/26/2009 5:00	*0.232*	*0.232*	*0.118*	19.2	316	8.6	8.3		
9/26/2009 5:15	*0.229*	*0.229*	*0.114*	19.2	318	8.6	8.3		
9/26/2009 5:30	*0.239*	*0.239*	*0.128*	19.2	314	8.6	8.3		
9/26/2009 5:45	*0.241*	*0.241*	*0.131*	19.2	310	8.6	8.3		
9/26/2009 6:00	*0.242*	*0.242*	*0.132*	19.2	312	8.5	8.3		
9/26/2009 6:15	*0.246*	*0.246*	*0.139*	19.2	308	8.5	8.3		
9/26/2009 6:30	*0.239*	*0.239*	*0.128*	19.2	310	8.6	8.3		
9/26/2009 6:45	*0.241*	*0.241*	*0.131*	19.2	312	8.6	8.3		
9/26/2009 7:00	*0.241*	*0.241*	*0.131*	19.2	312	8.6	8.3		
9/26/2009 7:15	*0.243*	*0.243*	*0.134*	19.2	310	8.6	8.3		
9/26/2009 7:30	*0.239*	*0.239*	*0.128*	19.2	310	8.6	8.3		
9/26/2009 7:45	*0.246*	*0.246*	*0.139*	19.2	308	8.5	8.3		
9/26/2009 8:00	*0.243*	*0.243*	*0.134*	19.2	308	8.6	8.3		
9/26/2009 8:15	*0.251*	*0.251*	*0.147*	19.3	308	8.6	8.3		
9/26/2009 8:30	*0.248*	*0.248*	*0.142*	19.3	310	8.6	8.3		
9/26/2009 8:45	*0.253*	*0.253*	*0.150*	19.3	310	8.6	8.3	* (9)	
9/26/2009 9:00	0.261	0.261	0.165	19.2	298	8.6	8.3		
9/26/2009 9:15	0.267	0.267	0.177	19.2	292	8.6	8.3		
9/26/2009 9:30	0.271	0.271	0.185	19.2	280	8.5	8.2		
9/26/2009 9:45	0.305	0.305	0.275	19.2	284	8.5	8.2		
9/26/2009 10:00	0.295	0.295	0.245	19.2	274	8.5	8.2		
9/26/2009 10:15	0.304	0.304	0.272	19.2	262	8.5	8.2		
9/26/2009 10:30	0.357	0.357	0.504	19.1	248	8.6	8.2		
9/26/2009 10:45	0.395	0.395	0.783	19.1	234	8.6	8.1		
9/26/2009 11:00	0.418	0.418	1.024	19.1	230	8.6	8.1		
9/26/2009 11:15	0.47	0.47	1.874	19	226	8.7	8.1		
9/26/2009 11:30	0.532	0.532	3.853	19	204	8.6	8.1		
9/26/2009 11:45	0.572	0.572	6.135	19	196	8.7	8.1		
9/26/2009 12:00	0.652	0.652	15.552	19	188	8.7	8.1		
9/26/2009 12:15	0.669	0.669	18.951	19	178	8.7	8.1		12:21
9/26/2009 12:30	0.692	0.692	24.762	18.9	168	8.7	8.1		
9/26/2009 12:45	0.702	0.702	27.815	18.9	162	8.7	8.1		
9/26/2009 13:00	0.72	0.72	34.291	18.9	156	8.7	8.1		
9/26/2009 13:15	0.728	0.728	37.634	18.9	152	8.8	8.1		
9/26/2009 13:30	0.752	0.752	49.748	18.8	150	8.8	8.1		
9/26/2009 13:45	0.774	0.774	64.251	18.8	144	8.8	8.1		
9/26/2009 14:00	0.785	0.785	73.017	18.8	142	8.8	8.1		
9/26/2009 14:15	0.8	0.8	86.931	18.8	140	8.8	8		
9/26/2009 14:30	0.804	0.804	91.070	18.7	138	8.8	8		
9/26/2009 14:45	0.805	0.805	92.135	18.7	140	8.8	8		
9/26/2009 15:00	0.805	0.805	92.135	18.7	136	8.8	8		
9/26/2009 15:15	0.802	0.802	88.976	18.7	136	8.8	8		
9/26/2009 15:30	0.803	0.803	90.017	18.6	134	8.8	8		
9/26/2009 15:45	0.79	0.79	77.388	18.6	132	8.9	8		
9/26/2009 16:00	0.792	0.792	79.209	18.6	132	8.9	8		
9/26/2009 16:15	0.771	0.771	62.048	18.6	130	8.9	8		
9/26/2009 16:30	0.749	0.749	48.043	18.6	130	8.9	8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/26/2009 16:45	0.795	0.795	82.021	18.5	130	8.9	8		
9/26/2009 17:00	0.793	0.793	80.136	18.5	128	8.9	8		
9/26/2009 17:15	0.787	0.787	74.735	18.5	128	8.9	8		
9/26/2009 17:30	0.785	0.785	73.017	18.5	128	8.9	8		
9/26/2009 17:45	0.766	0.766	58.543	18.4	128	8.9	8		
9/26/2009 18:00	0.764	0.764	57.198	18.4	126	8.9	8		
9/26/2009 18:15	0.753	0.753	50.330	18.4	128	8.9	7.9		
9/26/2009 18:30	0.74	0.74	43.269	18.3	126	8.9	7.9		
9/26/2009 18:45	0.74	0.74	43.269	18.3	128	8.9	7.9		
9/26/2009 19:00	0.727	0.727	37.199	18.3	128	8.9	7.9		
9/26/2009 19:15	0.723	0.723	35.508	18.2	128	8.9	7.9		
9/26/2009 19:30	0.717	0.717	33.115	18.2	126	8.9	8		
9/26/2009 19:45	0.646	0.646	14.504	18.2	126	8.9	8		
9/26/2009 20:00	0.636	0.636	12.912	18.2	126	8.9	8		
9/26/2009 20:15	0.626	0.626	11.494	18.1	128	8.9	8		
9/26/2009 20:30	0.622	0.622	10.972	18.1	126	8.9	8		
9/26/2009 20:45	0.618	0.618	10.473	18.1	128	8.9	8		
9/26/2009 21:00	0.608	0.608	9.324	18.1	128	8.9	8		
9/26/2009 21:15	0.605	0.605	9.004	18.1	128	8.9	8		
9/26/2009 21:30	0.603	0.603	8.797	18.1	128	9	8		
9/26/2009 21:45	0.595	0.595	8.016	18	128	8.9	8		
9/26/2009 22:00	0.592	0.592	7.741	18	128	8.9	8		
9/26/2009 22:15	0.587	0.587	7.304	18	128	8.9	8		
9/26/2009 22:30	0.58	0.58	6.733	18	128	9	8		
9/26/2009 22:45	0.576	0.576	6.427	18	128	8.9	8		
9/26/2009 23:00	0.571	0.571	6.064	18	130	8.9	8		
9/26/2009 23:15	0.564	0.564	5.590	18	130	8.9	8		
9/26/2009 23:30	0.56	0.56	5.336	18	134	8.9	8		
9/26/2009 23:45	0.556	0.556	5.093	18	134	8.9	8		
9/27/2009 0:00	0.55	0.55	4.750	18	134	8.9	8		
9/27/2009 0:15	0.547	0.547	4.587	18	134	8.9	8		
9/27/2009 0:30	0.547	0.547	4.587	18	136	8.9	7.9		
9/27/2009 0:45	0.548	0.548	4.641	18	136	8.9	8		
9/27/2009 1:00	0.546	0.546	4.534	18	136	8.9	8		
9/27/2009 1:15	0.541	0.541	4.278	17.9	134	8.9	8		
9/27/2009 1:30	0.55	0.55	4.750	17.9	134	8.9	8		
9/27/2009 1:45	0.554	0.554	4.976	17.9	134	8.9	8		
9/27/2009 2:00	0.552	0.552	4.862	17.9	134	8.9	8		
9/27/2009 2:15	0.552	0.552	4.862	17.8	136	9	8		
9/27/2009 2:30	0.546	0.546	4.534	17.8	136	9	8		
9/27/2009 2:45	0.535	0.535	3.990	17.7	138	9	8		
9/27/2009 3:00	0.525	0.525	3.552	17.7	140	9	8		
9/27/2009 3:15	0.529	0.529	3.721	17.6	140	9	8		
9/27/2009 3:30	0.528	0.528	3.678	17.6	140	9	7.9		
9/27/2009 3:45	0.521	0.521	3.390	17.6	140	9	8		
9/27/2009 4:00	0.514	0.514	3.125	17.5	140	9	8		
9/27/2009 4:15	0.514	0.514	3.125	17.5	140	9	8		
9/27/2009 4:30	0.51	0.51	2.983	17.4	140	9	8		
9/27/2009 4:45	0.511	0.511	3.018	17.4	140	9	8		
9/27/2009 5:00	0.507	0.507	2.881	17.3	140	9.1	8		
9/27/2009 5:15	0.504	0.504	2.782	17.2	140	9.1	8		
9/27/2009 5:30	0.501	0.501	2.687	17.2	140	9.1	8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/27/2009 5:45	0.499	0.499	2.625	17.1	142	9.1	8		
9/27/2009 6:00	0.496	0.496	2.535	17.1	140	9.1	8		
9/27/2009 6:15	0.494	0.494	2.477	17	142	9.1	8		
9/27/2009 6:30	0.493	0.493	2.448	17	142	9.2	8		
9/27/2009 6:45	0.49	0.49	2.364	16.9	142	9.2	8		
9/27/2009 7:00	0.487	0.487	2.283	16.9	142	9.2	8		
9/27/2009 7:15	0.484	0.484	2.205	16.8	144	9.2	8		
9/27/2009 7:30	0.481	0.481	2.129	16.8	144	9.2	8		
9/27/2009 7:45	0.481	0.481	2.129	16.8	144	9.2	8		
9/27/2009 8:00	0.478	0.478	2.056	16.8	144	9.2	8		
9/27/2009 8:15	0.475	0.475	1.986	16.7	144	9.2	8		
9/27/2009 8:30	0.475	0.475	1.986	16.8	144	9.2	8		
9/27/2009 8:45	0.472	0.472	1.918	16.8	146	9.2	8		
9/27/2009 9:00	0.471	0.471	1.896	16.9	146	9.2	8		
9/27/2009 9:15	0.467	0.467	1.809	16.9	146	9.2	8		
9/27/2009 9:30	0.464	0.464	1.747	17	146	9.2	8		
9/27/2009 9:45	0.465	0.465	1.768	17	144	9.2	8		
9/27/2009 10:00	0.466	0.466	1.789	17	146	9.2	8		
9/27/2009 10:15	0.46	0.46	1.668	17.1	146	9.1	8		
9/27/2009 10:30	0.458	0.458	1.630	17.1	146	9.1	8.1		
9/27/2009 10:45	0.459	0.459	1.649	17.2	146	9.1	8.1		
9/27/2009 11:00	0.456	0.456	1.592	17.2	146	9.1	8.1		
9/27/2009 11:15	0.454	0.454	1.556	17.2	148	9.1	8.1		
9/27/2009 11:30	0.453	0.453	1.538	17.3	148	9.1	8.1		
9/27/2009 11:45	0.452	0.452	1.520	17.3	148	9.1	8.1		
9/27/2009 12:00	0.449	0.449	1.468	17.3	148	9.1	8.1		
9/27/2009 12:15	0.447	0.447	1.434	17.4	148	9.1	8.1		12:21
9/27/2009 12:30	0.443	0.443	1.369	17.4	148	9.1	8.1		
9/27/2009 12:45	0.443	0.443	1.369	17.5	148	9	8.1		
9/27/2009 13:00	0.441	0.441	1.337	17.5	150	9.1	8.1		
9/27/2009 13:15	0.437	0.437	1.277	17.5	150	9	8.1		
9/27/2009 13:30	0.438	0.438	1.292	17.6	150	9	8.1		
9/27/2009 13:45	0.436	0.436	1.262	17.6	150	9	8.1		
9/27/2009 14:00	0.434	0.434	1.233	17.6	150	9	8.1		
9/27/2009 14:15	0.435	0.435	1.247	17.6	150	9	8.1		
9/27/2009 14:30	0.432	0.432	1.204	17.5	150	9	8.1		
9/27/2009 14:45	0.432	0.432	1.204	17.5	150	9	8.1		
9/27/2009 15:00	0.479	0.479	2.080	17.5	150	9	8.1		
9/27/2009 15:15	0.481	0.481	2.129	17.5	152	9	8.1		
9/27/2009 15:30	0.477	0.477	2.033	17.5	152	9	8.1		
9/27/2009 15:45	0.475	0.475	1.986	17.5	152	9	8.1		
9/27/2009 16:00	0.474	0.474	1.963	17.5	152	9	8.1		
9/27/2009 16:15	0.471	0.471	1.896	17.5	150	9	8.1		
9/27/2009 16:30	0.472	0.472	1.918	17.4	150	9	8.1		
9/27/2009 16:45	0.471	0.471	1.896	17.4	154	9	8.1		
9/27/2009 17:00	0.468	0.468	1.831	17.4	148	9	8.1		
9/27/2009 17:15	0.466	0.466	1.789	17.4	154	9	8.1		
9/27/2009 17:30	0.466	0.466	1.789	17.3	154	9	8.1		
9/27/2009 17:45	0.463	0.463	1.727	17.3	154	9	8.1		
9/27/2009 18:00	0.463	0.463	1.727	17.2	152	9	8.1		
9/27/2009 18:15	0.464	0.464	1.747	17.2	152	9	8.1		
9/27/2009 18:30	0.46	0.46	1.668	17.1	156	9	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/27/2009 18:45	0.458	0.458	1.630	17.1	156	9.1	8.1		
9/27/2009 19:00	0.458	0.458	1.630	17	154	9.1	8.1		
9/27/2009 19:15	0.457	0.457	1.611	17	158	9.1	8.1		
9/27/2009 19:30	0.454	0.454	1.556	16.9	158	9.1	8.1		
9/27/2009 19:45	0.455	0.455	1.574	16.9	158	9.1	8.1		
9/27/2009 20:00	0.453	0.453	1.538	16.8	158	9.1	8.1		
9/27/2009 20:15	0.449	0.449	1.468	16.7	158	9.1	8.1		
9/27/2009 20:30	0.449	0.449	1.468	16.7	156	9.1	8.1		
9/27/2009 20:45	0.449	0.449	1.468	16.6	156	9.2	8.1		
9/27/2009 21:00	0.447	0.447	1.434	16.6	160	9.2	8.1		
9/27/2009 21:15	0.445	0.445	1.401	16.5	158	9.2	8.1		
9/27/2009 21:30	0.447	0.447	1.434	16.5	160	9.2	8.1		
9/27/2009 21:45	0.443	0.443	1.369	16.4	160	9.2	8.1		
9/27/2009 22:00	0.443	0.443	1.369	16.4	162	9.2	8.1		
9/27/2009 22:15	0.443	0.443	1.369	16.3	160	9.2	8.1		
9/27/2009 22:30	0.438	0.438	1.292	16.3	162	9.2	8.1		
9/27/2009 22:45	0.439	0.439	1.307	16.2	162	9.3	8.1		
9/27/2009 23:00	0.439	0.439	1.307	16.2	162	9.3	8.1		
9/27/2009 23:15	0.436	0.436	1.262	16.2	162	9.3	8.1		
9/27/2009 23:30	0.437	0.437	1.277	16.1	162	9.3	8.1		
9/27/2009 23:45	0.436	0.436	1.262	16.1	164	9.3	8.1		
9/28/2009 0:00	0.435	0.435	1.247	16.1	164	9.3	8.1		
9/28/2009 0:15	0.433	0.433	1.219	16.1	164	9.3	8.1		
9/28/2009 0:30	0.432	0.432	1.204	16	164	9.3	8.1		
9/28/2009 0:45	0.434	0.434	1.233	16	166	9.3	8.1		
9/28/2009 1:00	0.432	0.432	1.204	16.1	166	9.3	8.1		
9/28/2009 1:15	0.43	0.43	1.177	16.1	166	9.3	8.1		
9/28/2009 1:30	0.429	0.429	1.163	16.1	166	9.3	8.1		
9/28/2009 1:45	0.428	0.428	1.150	16.1	166	9.3	8.1		
9/28/2009 2:00	0.428	0.428	1.150	16.1	166	9.3	8.1		
9/28/2009 2:15	0.426	0.426	1.123	16.2	168	9.3	8.1		
9/28/2009 2:30	0.425	0.425	1.110	16.2	168	9.3	8.1		
9/28/2009 2:45	0.424	0.424	1.097	16.2	168	9.2	8.1		
9/28/2009 3:00	0.423	0.423	1.085	16.3	168	9.2	8.1		
9/28/2009 3:15	0.422	0.422	1.072	16.3	166	9.2	8.1		
9/28/2009 3:30	0.423	0.423	1.085	16.4	170	9.2	8.1		
9/28/2009 3:45	0.421	0.421	1.060	16.4	170	9.2	8.1		
9/28/2009 4:00	0.42	0.42	1.048	16.4	170	9.2	8.1		
9/28/2009 4:15	0.419	0.419	1.035	16.5	170	9.2	8.1		
9/28/2009 4:30	0.416	0.416	1.000	16.5	172	9.1	8.1		
9/28/2009 4:45	0.417	0.417	1.012	16.5	172	9.1	8.1		
9/28/2009 5:00	0.417	0.417	1.012	16.6	172	9.2	8.1		
9/28/2009 5:15	0.417	0.417	1.012	16.6	172	9.1	8.1		
9/28/2009 5:30	0.416	0.416	1.000	16.6	170	9.1	8.1		
9/28/2009 5:45	0.414	0.414	0.977	16.7	170	9.1	8.1		
9/28/2009 6:00	0.414	0.414	0.977	16.7	170	9.1	8.1		
9/28/2009 6:15	0.412	0.412	0.955	16.7	170	9.1	8.1		
9/28/2009 6:30	0.411	0.411	0.944	16.7	172	9.1	8.1		
9/28/2009 6:45	0.41	0.41	0.933	16.7	170	9.1	8.1		
9/28/2009 7:00	0.411	0.411	0.944	16.8	170	9.1	8.1		
9/28/2009 7:15	0.409	0.409	0.922	16.8	170	9.1	8.1		
9/28/2009 7:30	0.408	0.408	0.911	16.8	172	9.1	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/28/2009 7:45	0.41	0.41	0.933	16.8	172	9.1	8.1		
9/28/2009 8:00	0.406	0.406	0.890	16.9	170	9.1	8.1		
9/28/2009 8:15	0.405	0.405	0.880	16.9	170	9.1	8.1		
9/28/2009 8:30	0.406	0.406	0.890	17	172	9.1	8.2		
9/28/2009 8:45	0.405	0.405	0.880	17	172	9.1	8.2		
9/28/2009 9:00	0.402	0.402	0.850	17.2	172	9.1	8.2		
9/28/2009 9:15	0.403	0.403	0.860	17.1	172	9.1	8.2		
9/28/2009 9:30	0.401	0.401	0.840	17.2	172	9	8.2		
9/28/2009 9:45	0.402	0.402	0.850	17.2	180	9	8.2		
9/28/2009 10:00	0.401	0.401	0.840	17.3	180	9.1	8.2		
9/28/2009 10:15	0.398	0.398	0.811	17.4	180	9	8.2		
9/28/2009 10:30	0.395	0.395	0.783	17.4	182	9	8.2		
9/28/2009 10:45	0.398	0.398	0.811	17.5	182	9	8.2		
9/28/2009 11:00	0.396	0.396	0.793	17.5	182	9	8.2		
9/28/2009 11:15	0.391	0.391	0.748	17.6	182	9	8.2		
9/28/2009 11:30	0.39	0.39	0.739	17.6	182	9	8.2		
9/28/2009 11:45	0.391	0.391	0.748	17.6	182	9	8.2		
9/28/2009 12:00	0.391	0.391	0.748	17.6	184	9	8.2		
9/28/2009 12:15	0.387	0.387	0.714	17.5	184	9	8.2		12:21
9/28/2009 12:30	0.387	0.387	0.714	17.5	184	9	8.2		
9/28/2009 12:45	0.387	0.387	0.714	17.5	186	9	8.2		
9/28/2009 13:00	0.388	0.388	0.722	17.4	186	9	8.2		
9/28/2009 13:15	0.384	0.384	0.689	17.4	186	9	8.2		
9/28/2009 13:30	0.386	0.386	0.706	17.3	186	9	8.2		
9/28/2009 13:45	0.383	0.383	0.681	17.3	188	9	8.2		
9/28/2009 14:00	0.381	0.381	0.666	17.3	188	9	8.2		
9/28/2009 14:15	0.381	0.381	0.666	17.2	188	9	8.2		
9/28/2009 14:30	0.38	0.38	0.658	17.2	188	9	8.2		
9/28/2009 14:45	0.377	0.377	0.635	17.2	188	9	8.2		
9/28/2009 15:00	0.374	0.374	0.614	17.2	190	9	8.2		
9/28/2009 15:15	0.376	0.376	0.628	17.1	188	9	8.2		
9/28/2009 15:30	0.376	0.376	0.628	17.1	188	9	8.2		
9/28/2009 15:45	0.375	0.375	0.621	17	188	9	8.2		
9/28/2009 16:00	0.372	0.372	0.600	16.9	184	9	8.2		
9/28/2009 16:15	0.371	0.371	0.593	16.9	184	9.1	8.2		
9/28/2009 16:30	0.368	0.368	0.572	16.8	184	9.1	8.2		
9/28/2009 16:45	0.368	0.368	0.572	16.7	182	9.1	8.2		
9/28/2009 17:00	0.367	0.367	0.566	16.7	182	9.1	8.2		
9/28/2009 17:15	0.367	0.367	0.566	16.6	184	9.1	8.2		
9/28/2009 17:30	0.365	0.365	0.553	16.5	182	9.1	8.2		
9/28/2009 17:45	0.366	0.366	0.559	16.5	194	9.1	8.2		
9/28/2009 18:00	0.363	0.363	0.540	16.4	194	9.2	8.2		
9/28/2009 18:15	0.365	0.365	0.553	16.3	194	9.2	8.2		
9/28/2009 18:30	0.363	0.363	0.540	16.2	194	9.2	8.2		
9/28/2009 18:45	0.362	0.362	0.534	16.2	196	9.2	8.2		
9/28/2009 19:00	0.363	0.363	0.540	16.1	196	9.2	8.2		
9/28/2009 19:15	0.365	0.365	0.553	16	196	9.2	8.2		
9/28/2009 19:30	0.363	0.363	0.540	16	196	9.3	8.2		
9/28/2009 19:45	0.361	0.361	0.528	15.9	198	9.3	8.2		
9/28/2009 20:00	0.361	0.361	0.528	15.8	198	9.3	8.2		
9/28/2009 20:15	0.361	0.361	0.528	15.7	198	9.3	8.2		
9/28/2009 20:30	0.361	0.361	0.528	15.7	196	9.3	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/28/2009 20:45	0.358	0.358	0.509	15.6	194	9.4	8.2		
9/28/2009 21:00	0.358	0.358	0.509	15.6	196	9.4	8.2		
9/28/2009 21:15	0.356	0.356	0.498	15.5	194	9.4	8.2		
9/28/2009 21:30	0.358	0.358	0.509	15.5	194	9.4	8.2		
9/28/2009 21:45	0.358	0.358	0.509	15.4	194	9.4	8.2		
9/28/2009 22:00	0.355	0.355	0.492	15.3	194	9.4	8.2		
9/28/2009 22:15	0.356	0.356	0.498	15.3	192	9.5	8.2		
9/28/2009 22:30	0.353	0.353	0.481	15.2	192	9.5	8.2		
9/28/2009 22:45	0.355	0.355	0.492	15.2	192	9.5	8.2		
9/28/2009 23:00	0.354	0.354	0.486	15.1	192	9.5	8.2		
9/28/2009 23:15	0.354	0.354	0.486	15.1	192	9.5	8.2		
9/28/2009 23:30	0.353	0.353	0.481	15	186	9.5	8.2		
9/28/2009 23:45	0.351	0.351	0.470	15	192	9.5	8.2		
9/29/2009 0:00	0.35	0.35	0.464	15	192	9.5	8.2		
9/29/2009 0:15	0.35	0.35	0.464	15	196	9.5	8.2		
9/29/2009 0:30	0.35	0.35	0.464	14.9	194	9.6	8.2		
9/29/2009 0:45	0.349	0.349	0.459	14.9	182	9.5	8.2		
9/29/2009 1:00	0.348	0.348	0.454	14.8	190	9.5	8.2		
9/29/2009 1:15	0.348	0.348	0.454	14.8	192	9.6	8.2		
9/29/2009 1:30	0.346	0.346	0.443	14.8	190	9.6	8.2		
9/29/2009 1:45	0.346	0.346	0.443	14.8	186	9.6	8.2		
9/29/2009 2:00	0.346	0.346	0.443	14.7	192	9.6	8.2		
9/29/2009 2:15	0.347	0.347	0.448	14.7	188	9.6	8.2		
9/29/2009 2:30	0.343	0.343	0.428	14.7	178	9.6	8.2		
9/29/2009 2:45	0.344	0.344	0.433	14.6	198	9.6	8.2		
9/29/2009 3:00	0.345	0.345	0.438	14.6	182	9.6	8.2		
9/29/2009 3:15	0.342	0.342	0.423	14.5	180	9.6	8.2		
9/29/2009 3:30	0.343	0.343	0.428	14.5	178	9.7	8.2		
9/29/2009 3:45	0.344	0.344	0.433	14.4	190	9.6	8.2		
9/29/2009 4:00	0.343	0.343	0.428	14.4	184	9.7	8.2		
9/29/2009 4:15	0.343	0.343	0.428	14.3	196	9.7	8.2		
9/29/2009 4:30	0.343	0.343	0.428	14.3	188	9.7	8.2		
9/29/2009 4:45	0.345	0.345	0.438	14.2	170	9.7	8.2		
9/29/2009 5:00	0.344	0.344	0.433	14.2	198	9.7	8.2		
9/29/2009 5:15	0.341	0.341	0.418	14.1	192	9.7	8.2		
9/29/2009 5:30	0.341	0.341	0.418	14.1	178	9.7	8.2		
9/29/2009 5:45	0.342	0.342	0.423	14	174	9.8	8.2		
9/29/2009 6:00	0.343	0.343	0.428	13.9	194	9.8	8.2		
9/29/2009 6:15	0.342	0.342	0.423	13.9	168	9.8	8.2		
9/29/2009 6:30	0.34	0.34	0.413	13.8	180	9.8	8.2		
9/29/2009 6:45	0.339	0.339	0.408	13.8	176	9.9	8.2		
9/29/2009 7:00	0.339	0.339	0.408	13.7	180	9.9	8.2		
9/29/2009 7:15	0.34	0.34	0.413	13.7	196	9.9	8.2		
9/29/2009 7:30	0.34	0.34	0.413	13.6	196	9.9	8.2		
9/29/2009 7:45	0.339	0.339	0.408	13.6	202	9.9	8.2		
9/29/2009 8:00	0.34	0.34	0.413	13.6	198	9.9	8.2		
9/29/2009 8:15	0.338	0.338	0.404	13.6	186	9.9	8.2		
9/29/2009 8:30	0.337	0.337	0.399	13.7	198	9.9	8.2		
9/29/2009 8:45	0.3372	0.3372	0.400	13.7	186	9.8	8.2		
9/29/2009 9:00	0.3244	0.3244	0.345	13.8	210	9.8	8.2		9:02
9/29/2009 9:15	0.319	0.319	0.324	13.9	218	9.9	8.3		
9/29/2009 9:30	0.321	0.321	0.331	14	216	9.9	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/29/2009 9:45	0.315	0.315	0.309	14.1	212	9.9	8.3		
9/29/2009 10:00	0.319	0.319	0.324	14.3	220	9.9	8.3		
9/29/2009 10:15	0.317	0.317	0.316	14.4	212	9.8	8.3		
9/29/2009 10:30	0.316	0.316	0.313	14.4	220	9.8	8.3		
9/29/2009 10:45	0.33	0.33	0.368	14.4	218	9.8	8.3		
9/29/2009 11:00	*0.308*	**0.338**	**0.404**	14.4	218	9.8	8.3	* (10)	
9/29/2009 11:15	*0.299*	**0.329**	**0.364**	14.5	222	9.8	8.3		
9/29/2009 11:30	*0.292*	**0.322**	**0.335**	14.4	220	9.8	8.3		
9/29/2009 11:45	*0.296*	**0.326**	**0.351**	14.4	214	9.8	8.3		
9/29/2009 12:00	*0.265*	**0.295**	**0.245**	14.5	220	9.8	8.3		
9/29/2009 12:15	*0.267*	**0.297**	**0.251**	14.6	220	9.8	8.3		
9/29/2009 12:30	*0.263*	**0.293**	**0.239**	14.6	216	9.8	8.3		
9/29/2009 12:45	*0.245*	**0.275**	**0.194**	14.6	224	9.7	8.3		
9/29/2009 13:00	*0.264*	**0.294**	**0.242**	14.7	222	9.7	8.3		
9/29/2009 13:15	*0.25*	**0.28**	**0.206**	14.7	224	9.7	8.3		
9/29/2009 13:30	*0.247*	**0.277**	**0.199**	14.7	224	9.7	8.3		
9/29/2009 13:45	*0.259*	**0.289**	**0.228**	14.8	224	9.7	8.3		
9/29/2009 14:00	*0.252*	**0.282**	**0.211**	14.8	214	9.7	8.3		
9/29/2009 14:15	*0.261*	**0.291**	**0.234**	14.8	224	9.7	8.3		
9/29/2009 14:30	*0.25*	**0.28**	**0.206**	14.8	220	9.7	8.3		
9/29/2009 14:45	*0.245*	**0.275**	**0.194**	14.8	226	9.7	8.3		
9/29/2009 15:00	*0.248*	**0.278**	**0.201**	14.8	222	9.7	8.3		
9/29/2009 15:15	*0.248*	**0.278**	**0.201**	14.8	220	9.7	8.3		
9/29/2009 15:30	*0.254*	**0.284**	**0.215**	14.8	224	9.7	8.3		
9/29/2009 15:45	*0.237*	**0.267**	**0.177**	14.8	216	9.7	8.3		
9/29/2009 16:00	*0.24*	**0.27**	**0.183**	14.8	224	9.7	8.3		
9/29/2009 16:15	*0.265*	**0.295**	**0.245**	14.8	222	9.7	8.3		
9/29/2009 16:30	*0.251*	**0.281**	**0.208**	14.8	230	9.7	8.3		
9/29/2009 16:45	*0.251*	**0.281**	**0.208**	14.8	228	9.6	8.3		
9/29/2009 17:00	*0.244*	**0.274**	**0.192**	14.7	226	9.7	8.3		
9/29/2009 17:15	*0.235*	**0.265**	**0.173**	14.7	230	9.7	8.3		
9/29/2009 17:30	*0.245*	**0.275**	**0.194**	14.6	232	9.7	8.3		
9/29/2009 17:45	*0.247*	**0.277**	**0.199**	14.6	232	9.7	8.3		
9/29/2009 18:00	*0.242*	**0.272**	**0.187**	14.6	228	9.7	8.3		
9/29/2009 18:15	*0.254*	**0.284**	**0.215**	14.5	228	9.7	8.3		
9/29/2009 18:30	*0.257*	**0.287**	**0.223**	14.5	224	9.7	8.3		
9/29/2009 18:45	*0.25*	**0.28**	**0.206**	14.5	230	9.7	8.3		
9/29/2009 19:00	*0.257*	**0.287**	**0.223**	14.4	228	9.7	8.3		
9/29/2009 19:15	*0.249*	**0.279**	**0.203**	14.4	234	9.7	8.3		
9/29/2009 19:30	*0.247*	**0.277**	**0.199**	14.4	234	9.7	8.3		
9/29/2009 19:45	*0.246*	**0.276**	**0.196**	14.4	234	9.8	8.3		
9/29/2009 20:00	*0.251*	**0.281**	**0.208**	14.3	236	9.7	8.3		
9/29/2009 20:15	*0.254*	**0.284**	**0.215**	14.3	236	9.7	8.3		
9/29/2009 20:30	*0.25*	**0.28**	**0.206**	14.3	236	9.7	8.3		
9/29/2009 20:45	*0.257*	**0.287**	**0.223**	14.3	236	9.8	8.3		
9/29/2009 21:00	*0.261*	**0.291**	**0.234**	14.2	232	9.8	8.3		
9/29/2009 21:15	*0.25*	**0.28**	**0.206**	14.2	236	9.8	8.3		
9/29/2009 21:30	*0.245*	**0.275**	**0.194**	14.2	238	9.8	8.3		
9/29/2009 21:45	*0.246*	**0.276**	**0.196**	14.2	238	9.8	8.3		
9/29/2009 22:00	*0.243*	**0.273**	**0.190**	14.1	238	9.8	8.3		
9/29/2009 22:15	*0.246*	**0.276**	**0.196**	14.1	238	9.8	8.3		
9/29/2009 22:30	*0.247*	**0.277**	**0.199**	14.1	238	9.8	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/29/2009 22:45	*0.252*	**0.282**	**0.211**	14.1	234	9.8	8.3		
9/29/2009 23:00	*0.242*	**0.272**	**0.187**	14	240	9.8	8.3		
9/29/2009 23:15	*0.244*	**0.274**	**0.192**	14	240	9.9	8.3		
9/29/2009 23:30	*0.25*	**0.28**	**0.206**	14	240	9.8	8.3		
9/29/2009 23:45	*0.241*	**0.271**	**0.185**	14	240	9.8	8.3		
9/30/2009 0:00	*0.263*	**0.293**	**0.239**	14	240	9.8	8.3		
9/30/2009 0:15	*0.242*	**0.272**	**0.187**	13.9	240	9.8	8.3		
9/30/2009 0:30	*0.253*	**0.283**	**0.213**	13.9	242	9.9	8.3		
9/30/2009 0:45	*0.247*	**0.277**	**0.199**	13.9	242	9.9	8.3		
9/30/2009 1:00	*0.243*	**0.273**	**0.190**	13.9	242	9.9	8.3		
9/30/2009 1:15	*0.242*	**0.272**	**0.187**	13.9	244	9.9	8.3		
9/30/2009 1:30	*0.251*	**0.281**	**0.208**	13.9	244	9.9	8.3		
9/30/2009 1:45	*0.247*	**0.277**	**0.199**	13.8	244	9.9	8.3		
9/30/2009 2:00	*0.247*	**0.277**	**0.199**	13.8	244	9.9	8.3		
9/30/2009 2:15	*0.253*	**0.283**	**0.213**	13.8	240	9.9	8.3		
9/30/2009 2:30	*0.245*	**0.275**	**0.194**	13.8	234	9.9	8.3		
9/30/2009 2:45	*0.246*	**0.276**	**0.196**	13.8	236	9.9	8.3		
9/30/2009 3:00	*0.243*	**0.273**	**0.190**	13.7	246	9.9	8.3		
9/30/2009 3:15	*0.242*	**0.272**	**0.187**	13.7	244	9.9	8.3		
9/30/2009 3:30	*0.251*	**0.281**	**0.208**	13.6	246	9.9	8.3		
9/30/2009 3:45	*0.241*	**0.271**	**0.185**	13.5	246	9.9	8.3		
9/30/2009 4:00	*0.251*	**0.281**	**0.208**	13.5	246	9.9	8.3		
9/30/2009 4:15	*0.247*	**0.277**	**0.199**	13.4	248	10	8.3		
9/30/2009 4:30	*0.25*	**0.28**	**0.206**	13.4	244	10	8.3		
9/30/2009 4:45	*0.245*	**0.275**	**0.194**	13.3	248	10	8.3		
9/30/2009 5:00	*0.24*	**0.27**	**0.183**	13.2	240	10	8.3		
9/30/2009 5:15	*0.232*	**0.262**	**0.167**	13.2	248	10	8.3		
9/30/2009 5:30	*0.26*	**0.29**	**0.231**	13.1	248	10.1	8.3		
9/30/2009 5:45	*0.243*	**0.273**	**0.190**	13.1	248	10.1	8.3		
9/30/2009 6:00	*0.242*	**0.272**	**0.187**	13	250	10.1	8.3		
9/30/2009 6:15	*0.252*	**0.282**	**0.211**	13	246	10.1	8.3		
9/30/2009 6:30	*0.239*	**0.269**	**0.181**	12.9	250	10.1	8.3		
9/30/2009 6:45	*0.252*	**0.282**	**0.211**	12.9	248	10.1	8.3		
9/30/2009 7:00	*0.24*	**0.27**	**0.183**	12.9	250	10.2	8.3		
9/30/2009 7:15	*0.241*	**0.271**	**0.185**	12.9	242	10.2	8.3		
9/30/2009 7:30	*0.243*	**0.273**	**0.190**	12.8	250	10.2	8.3		
9/30/2009 7:45	*0.243*	**0.273**	**0.190**	12.8	250	10.2	8.3		
9/30/2009 8:00	*0.252*	**0.282**	**0.211**	12.9	250	10.2	8.3		
9/30/2009 8:15	*0.246*	**0.276**	**0.196**	12.9	250	10.2	8.3		
9/30/2009 8:30	*0.245*	**0.275**	**0.194**	12.9	252	10.2	8.3		
9/30/2009 8:45	*0.24*	**0.27**	**0.183**	13	252	10.2	8.3		
9/30/2009 9:00	*0.243*	**0.273**	**0.190**	13.1	252	10.2	8.3		9:02
9/30/2009 9:15	*0.25*	**0.28**	**0.206**	13.2	252	10.2	8.4		
9/30/2009 9:30	*0.237*	**0.267**	**0.177**	13.3	252	10.2	8.4		
9/30/2009 9:45	*0.243*	**0.273**	**0.190**	13.4	252	10.1	8.4		
9/30/2009 10:00	*0.228*	**0.258**	**0.159**	13.5	248	10.1	8.4		
9/30/2009 10:15	*0.242*	**0.272**	**0.187**	13.5	254	10.1	8.4		
9/30/2009 10:30	*0.226*	**0.256**	**0.156**	13.6	254	10.1	8.4		
9/30/2009 10:45	*0.236*	**0.266**	**0.175**	13.6	250	10.1	8.4		
9/30/2009 11:00	*0.231*	**0.261**	**0.165**	13.6	256	10.1	8.4		
9/30/2009 11:15	*0.23*	**0.26**	**0.163**	13.9	256	10	8.4		
9/30/2009 11:30	*0.241*	**0.271**	**0.185**	13.9	256	10	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
9/30/2009 11:45	*0.229*	**0.269**	**0.181**	13.9	256	10	8.4	* (11)	
9/30/2009 12:00	*0.236*	**0.276**	**0.196**	13.9	256	10	8.4		
9/30/2009 12:15	*0.23*	**0.27**	**0.183**	14	256	10	8.4		
9/30/2009 12:30	*0.227*	**0.267**	**0.177**	14	256	10	8.4		
9/30/2009 12:45	*0.243*	**0.283**	**0.213**	14.1	258	9.9	8.4		
9/30/2009 13:00	*0.231*	**0.271**	**0.185**	14.1	258	9.9	8.4		
9/30/2009 13:15	*0.24*	**0.28**	**0.206**	14.2	258	9.9	8.4		
9/30/2009 13:30	*0.245*	**0.285**	**0.218**	14.4	254	9.9	8.4		
9/30/2009 13:45	*0.241*	**0.281**	**0.208**	14.5	258	9.8	8.4		
9/30/2009 14:00	*0.239*	**0.279**	**0.203**	14.5	252	9.8	8.4		
9/30/2009 14:15	*0.237*	**0.277**	**0.199**	14.5	260	9.8	8.4		
9/30/2009 14:30	*0.235*	**0.275**	**0.194**	14.6	258	9.8	8.4		
9/30/2009 14:45	*0.239*	**0.279**	**0.203**	14.6	250	9.8	8.4		
9/30/2009 15:00	*0.229*	**0.269**	**0.181**	14.6	252	9.8	8.4		
9/30/2009 15:15	*0.24*	**0.28**	**0.206**	14.6	260	9.7	8.4		
9/30/2009 15:30	*0.217*	**0.257**	**0.157**	14.6	256	9.6	8.4		
9/30/2009 15:45	*0.224*	**0.264**	**0.171**	14.7	252	9.8	8.4		
9/30/2009 16:00	*0.226*	**0.266**	**0.175**	14.7	260	9.7	8.4		
9/30/2009 16:15	*0.23*	**0.27**	**0.183**	14.7	256	9.7	8.4		
9/30/2009 16:30	*0.233*	**0.273**	**0.190**	14.7	252	9.7	8.4		
9/30/2009 16:45	*0.224*	**0.264**	**0.171**	14.7	260	9.7	8.4		
9/30/2009 17:00	*0.23*	**0.27**	**0.183**	14.7	260	9.7	8.4		
9/30/2009 17:15	*0.224*	**0.264**	**0.171**	14.6	258	9.7	8.4		
9/30/2009 17:30	*0.223*	**0.263**	**0.169**	14.6	256	9.7	8.4		
9/30/2009 17:45	*0.23*	**0.27**	**0.183**	14.5	252	9.8	8.4		
9/30/2009 18:00	*0.238*	**0.278**	**0.201**	14.5	264	9.7	8.4		
9/30/2009 18:15	*0.228*	**0.268**	**0.179**	14.5	266	9.7	8.4		
9/30/2009 18:30	*0.236*	**0.276**	**0.196**	14.4	266	9.8	8.4		
9/30/2009 18:45	*0.231*	**0.271**	**0.185**	14.3	266	9.8	8.4		
9/30/2009 19:00	*0.223*	**0.263**	**0.169**	14.2	266	9.8	8.4		
9/30/2009 19:15	*0.228*	**0.268**	**0.179**	14.2	266	9.8	8.4		
9/30/2009 19:30	*0.23*	**0.27**	**0.183**	14.1	266	9.8	8.4		
9/30/2009 19:45	*0.234*	**0.274**	**0.192**	14	266	9.8	8.4		
9/30/2009 20:00	*0.225*	**0.265**	**0.173**	14	264	9.8	8.4		
9/30/2009 20:15	*0.239*	**0.279**	**0.203**	13.9	268	9.9	8.4		
9/30/2009 20:30	*0.222*	**0.262**	**0.167**	13.8	264	9.9	8.4		
9/30/2009 20:45	*0.227*	**0.267**	**0.177**	13.7	258	9.9	8.4		
9/30/2009 21:00	*0.228*	**0.268**	**0.179**	13.7	266	9.9	8.4		
9/30/2009 21:15	*0.23*	**0.27**	**0.183**	13.6	262	10	8.4		
9/30/2009 21:30	*0.213*	**0.253**	**0.150**	13.5	268	10	8.4		
9/30/2009 21:45	*0.219*	**0.259**	**0.161**	13.5	264	10	8.4		
9/30/2009 22:00	*0.235*	**0.275**	**0.194**	13.4	262	10	8.4		
9/30/2009 22:15	*0.227*	**0.267**	**0.177**	13.4	260	10	8.4		
9/30/2009 22:30	*0.23*	**0.27**	**0.183**	13.3	258	10	8.4		
9/30/2009 22:45	*0.228*	**0.268**	**0.179**	13.3	270	10	8.4		
9/30/2009 23:00	*0.224*	**0.264**	**0.171**	13.2	268	10	8.4		
9/30/2009 23:15	*0.226*	**0.266**	**0.175**	13.2	266	10.1	8.4		
9/30/2009 23:30	*0.234*	**0.274**	**0.192**	13.1	264	10.1	8.4		
9/30/2009 23:45	*0.238*	**0.278**	**0.201**	13.1	262	10.1	8.4		
10/1/2009 0:00	*0.232*	**0.272**	**0.187**	13.1	272	10.1	8.4		
10/1/2009 0:15	*0.216*	**0.256**	**0.156**	13	272	10.1	8.4		
10/1/2009 0:30	*0.228*	**0.268**	**0.179**	13	274	10.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/1/2009 0:45	*0.226*	**0.266**	**0.175**	12.9	274	10.1	8.4		
10/1/2009 1:00	*0.22*	**0.26**	**0.163**	12.9	274	10.2	8.4		
10/1/2009 1:15	*0.233*	**0.273**	**0.190**	12.9	274	10.1	8.4		
10/1/2009 1:30	*0.218*	**0.258**	**0.159**	12.8	272	10.1	8.4		
10/1/2009 1:45	*0.23*	**0.27**	**0.183**	12.8	264	10.2	8.4		
10/1/2009 2:00	*0.225*	**0.265**	**0.173**	12.8	262	10.2	8.4		
10/1/2009 2:15	*0.236*	**0.276**	**0.196**	12.7	274	10.2	8.4		
10/1/2009 2:30	*0.217*	**0.257**	**0.157**	12.7	274	10.2	8.4		
10/1/2009 2:45	*0.222*	**0.262**	**0.167**	12.7	276	10.2	8.4		
10/1/2009 3:00	*0.238*	**0.278**	**0.201**	12.6	276	10.2	8.4		
10/1/2009 3:15	*0.228*	**0.268**	**0.179**	12.6	270	10.2	8.4		
10/1/2009 3:30	*0.228*	**0.268**	**0.179**	12.6	270	10.3	8.4		
10/1/2009 3:45	*0.221*	**0.261**	**0.165**	12.5	268	10.2	8.4		
10/1/2009 4:00	*0.226*	**0.266**	**0.175**	12.5	266	10.2	8.4		
10/1/2009 4:15	*0.22*	**0.26**	**0.163**	12.5	264	10.3	8.4		
10/1/2009 4:30	*0.223*	**0.263**	**0.169**	12.4	260	10.3	8.4		
10/1/2009 4:45	*0.215*	**0.255**	**0.154**	12.4	258	10.3	8.4		
10/1/2009 5:00	*0.218*	**0.258**	**0.159**	12.4	256	10.3	8.4		
10/1/2009 5:15	*0.215*	**0.255**	**0.154**	12.3	252	10.3	8.4		
10/1/2009 5:30	*0.224*	**0.264**	**0.171**	12.3	252	10.3	8.4		
10/1/2009 5:45	*0.215*	**0.255**	**0.154**	12.3	244	10.3	8.4		
10/1/2009 6:00	*0.226*	**0.266**	**0.175**	12.2	250	10.4	8.4		
10/1/2009 6:15	*0.227*	**0.267**	**0.177**	12.2	234	10.3	8.4		
10/1/2009 6:30	*0.231*	**0.271**	**0.185**	12.2	262	10.3	8.4		
10/1/2009 6:45	*0.224*	**0.264**	**0.171**	12.1	250	10.4	8.4		
10/1/2009 7:00	*0.221*	**0.261**	**0.165**	12.1	250	10.4	8.4		
10/1/2009 7:15	*0.225*	**0.265**	**0.173**	12.1	216	10.4	8.4		
10/1/2009 7:30	*0.23*	**0.27**	**0.183**	12.1	244	10.3	8.4		
10/1/2009 7:45	*0.222*	**0.262**	**0.167**	12.1	258	10.4	8.4		
10/1/2009 8:00	*0.221*	**0.261**	**0.165**	12	234	10.4	8.4		
10/1/2009 8:15	*0.235*	**0.275**	**0.194**	12	266	10.4	8.4		
10/1/2009 8:30	*0.235*	**0.275**	**0.194**	12	256	10.5	8.4		
10/1/2009 8:45	*0.224*	**0.264**	**0.171**	12.1	276	10.4	8.4		
10/1/2009 9:00	*0.23*	**0.27**	**0.183**	12.1	270	10.4	8.4		9:02
10/1/2009 9:15	*0.231*	**0.271**	**0.185**	12.1	268	10.4	8.4		
10/1/2009 9:30	*0.222*	**0.262**	**0.167**	12.2	280	10.5	8.4		
10/1/2009 9:45	*0.23*	**0.27**	**0.183**	12.4	278	10.4	8.4		
10/1/2009 10:00	*0.232*	**0.272**	**0.187**	12.6	278	10.4	8.4		
10/1/2009 10:15	*0.226*	**0.266**	**0.175**	12.8	276	10.3	8.4		
10/1/2009 10:30	*0.225*	**0.265**	**0.173**	12.9	272	10.3	8.4		
10/1/2009 10:45	*0.227*	**0.267**	**0.177**	13.1	270	10.3	8.4		
10/1/2009 11:00	*0.23*	**0.27**	**0.183**	13.2	264	10.2	8.4		
10/1/2009 11:15	*0.242*	**0.282**	**0.211**	13.3	284	10.2	8.4		
10/1/2009 11:30	*0.227*	**0.267**	**0.177**	13.4	284	10.2	8.4		
10/1/2009 11:45	*0.237*	**0.277**	**0.199**	13.4	284	10.1	8.4		
10/1/2009 12:00	*0.222*	**0.262**	**0.167**	13.5	284	10.2	8.4		
10/1/2009 12:15	*0.236*	**0.276**	**0.196**	13.5	284	10.1	8.4		
10/1/2009 12:30	*0.23*	**0.27**	**0.183**	13.6	282	10.1	8.4		
10/1/2009 12:45	*0.23*	**0.28**	**0.206**	13.7	276	10	8.4	* (12)	
10/1/2009 13:00	*0.232*	**0.282**	**0.211**	13.7	274	10	8.4		
10/1/2009 13:15	*0.248*	**0.298**	**0.254**	13.8	270	10	8.4		
10/1/2009 13:30	*0.232*	**0.282**	**0.211**	13.9	268	9.9	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/1/2009 13:45	*0.222*	**0.272**	**0.187**	14	266	9.9	8.4		
10/1/2009 14:00	*0.237*	**0.287**	**0.223**	14	264	9.9	8.4		
10/1/2009 14:15	*0.232*	**0.282**	**0.211**	14.1	264	9.9	8.4		
10/1/2009 14:30	*0.22*	**0.27**	**0.183**	14.2	262	9.8	8.4		
10/1/2009 14:45	*0.228*	**0.278**	**0.201**	14.3	266	9.8	8.4		
10/1/2009 15:00	*0.248*	**0.298**	**0.254**	14.4	258	9.8	8.4		
10/1/2009 15:15	*0.221*	**0.271**	**0.185**	14.4	264	9.8	8.4		
10/1/2009 15:30	*0.222*	**0.272**	**0.187**	14.5	266	9.8	8.4		
10/1/2009 15:45	*0.227*	**0.277**	**0.199**	14.6	248	9.8	8.4		
10/1/2009 16:00	*0.24*	**0.29**	**0.231**	14.6	268	9.7	8.4		
10/1/2009 16:15	*0.235*	**0.285**	**0.218**	14.6	268	9.7	8.4		
10/1/2009 16:30	*0.237*	**0.287**	**0.223**	14.6	266	9.7	8.4		
10/1/2009 16:45	*0.227*	**0.277**	**0.199**	14.6	240	9.7	8.4		
10/1/2009 17:00	*0.223*	**0.273**	**0.190**	14.6	248	9.7	8.4		
10/1/2009 17:15	*0.23*	**0.28**	**0.206**	14.5	250	9.7	8.4		
10/1/2009 17:30	*0.237*	**0.287**	**0.223**	14.5	236	9.7	8.4		
10/1/2009 17:45	*0.227*	**0.277**	**0.199**	14.5	238	9.7	8.4		
10/1/2009 18:00	*0.221*	**0.271**	**0.185**	14.5	246	9.7	8.4		
10/1/2009 18:15	*0.226*	**0.276**	**0.196**	14.5	280	9.7	8.4		
10/1/2009 18:30	*0.226*	**0.276**	**0.196**	14.4	280	9.7	8.4		
10/1/2009 18:45	*0.232*	**0.282**	**0.211**	14.4	280	9.7	8.4		
10/1/2009 19:00	*0.235*	**0.285**	**0.218**	14.3	280	9.7	8.4		
10/1/2009 19:15	*0.229*	**0.279**	**0.203**	14.3	280	9.8	8.4		
10/1/2009 19:30	*0.227*	**0.277**	**0.199**	14.2	280	9.7	8.4		
10/1/2009 19:45	*0.215*	**0.265**	**0.173**	14.2	278	9.7	8.4		
10/1/2009 20:00	*0.211*	**0.261**	**0.165**	14.1	276	9.8	8.4		
10/1/2009 20:15	*0.212*	**0.262**	**0.167**	14.1	274	9.8	8.4		
10/1/2009 20:30	*0.213*	**0.263**	**0.169**	14	272	9.8	8.4		
10/1/2009 20:45	*0.212*	**0.262**	**0.167**	14	272	9.8	8.4		
10/1/2009 21:00	*0.222*	**0.272**	**0.187**	13.9	270	9.8	8.4		
10/1/2009 21:15	*0.207*	**0.257**	**0.157**	13.9	270	9.8	8.4		
10/1/2009 21:30	*0.213*	**0.263**	**0.169**	13.8	270	9.8	8.4		
10/1/2009 21:45	*0.21*	**0.26**	**0.163**	13.8	268	9.9	8.4		
10/1/2009 22:00	*0.209*	**0.259**	**0.161**	13.7	268	9.8	8.4		
10/1/2009 22:15	*0.21*	**0.26**	**0.163**	13.7	268	9.9	8.4		
10/1/2009 22:30	*0.207*	**0.257**	**0.157**	13.6	266	9.9	8.4		
10/1/2009 22:45	*0.215*	**0.265**	**0.173**	13.6	268	9.9	8.4		
10/1/2009 23:00	*0.213*	**0.263**	**0.169**	13.5	266	9.9	8.4		
10/1/2009 23:15	*0.211*	**0.261**	**0.165**	13.5	266	9.9	8.4		
10/1/2009 23:30	*0.212*	**0.262**	**0.167**	13.5	266	9.9	8.4		
10/1/2009 23:45	*0.212*	**0.262**	**0.167**	13.5	266	9.9	8.4		
10/2/2009 0:00	*0.205*	**0.255**	**0.154**	13.4	264	9.9	8.4		
10/2/2009 0:15	*0.207*	**0.257**	**0.157**	13.4	264	9.9	8.4		
10/2/2009 0:30	*0.204*	**0.254**	**0.152**	13.4	262	9.9	8.4		
10/2/2009 0:45	*0.212*	**0.262**	**0.167**	13.4	262	9.9	8.4		
10/2/2009 1:00	*0.206*	**0.256**	**0.156**	13.4	260	10	8.4		
10/2/2009 1:15	*0.21*	**0.26**	**0.163**	13.4	264	9.9	8.4		
10/2/2009 1:30	*0.213*	**0.263**	**0.169**	13.4	262	9.9	8.4		
10/2/2009 1:45	*0.206*	**0.256**	**0.156**	13.5	262	9.9	8.4		
10/2/2009 2:00	*0.204*	**0.254**	**0.152**	13.5	260	9.9	8.4		
10/2/2009 2:15	*0.216*	**0.266**	**0.175**	13.5	260	9.9	8.4		
10/2/2009 2:30	*0.213*	**0.263**	**0.169**	13.6	260	9.9	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/2/2009 2:45	*0.212*	**0.262**	**0.167**	13.6	260	9.9	8.4		
10/2/2009 3:00	*0.209*	**0.259**	**0.161**	13.6	262	9.9	8.4		
10/2/2009 3:15	*0.207*	**0.257**	**0.157**	13.7	252	9.9	8.4		
10/2/2009 3:30	*0.216*	**0.266**	**0.175**	13.7	264	9.9	8.4		
10/2/2009 3:45	*0.205*	**0.255**	**0.154**	13.8	264	9.8	8.4		
10/2/2009 4:00	*0.196*	**0.246**	**0.139**	13.8	256	9.9	8.4		
10/2/2009 4:15	*0.205*	**0.255**	**0.154**	13.8	262	9.8	8.4		
10/2/2009 4:30	*0.209*	**0.259**	**0.161**	13.9	302	9.8	8.4		
10/2/2009 4:45	*0.217*	**0.267**	**0.177**	13.9	302	9.8	8.4		
10/2/2009 5:00	*0.202*	**0.252**	**0.149**	13.9	302	9.8	8.4		
10/2/2009 5:15	*0.2*	**0.25**	**0.145**	14	302	9.8	8.4		
10/2/2009 5:30	*0.201*	**0.251**	**0.147**	14	302	9.8	8.4		
10/2/2009 5:45	*0.199*	**0.249**	**0.143**	14	302	9.8	8.4		
10/2/2009 6:00	*0.199*	**0.249**	**0.143**	14	300	9.8	8.4		
10/2/2009 6:15	*0.205*	**0.255**	**0.154**	14	300	9.8	8.4		
10/2/2009 6:30	*0.21*	**0.26**	**0.163**	14	300	9.8	8.4		
10/2/2009 6:45	*0.207*	**0.257**	**0.157**	14.1	300	9.8	8.4		
10/2/2009 7:00	*0.208*	**0.258**	**0.159**	14.1	300	9.8	8.4		
10/2/2009 7:15	*0.201*	**0.251**	**0.147**	14.1	300	9.7	8.4		
10/2/2009 7:30	*0.202*	**0.252**	**0.149**	14.2	300	9.7	8.4		
10/2/2009 7:45	*0.184*	**0.234**	**0.120**	14.2	298	9.7	8.4		
10/2/2009 8:00	*0.198*	**0.248**	**0.142**	14.2	298	9.8	8.4		
10/2/2009 8:15	*0.191*	**0.241**	**0.131**	14.2	296	9.7	8.4		
10/2/2009 8:30	*0.2*	**0.25**	**0.145**	14.2	296	9.7	8.4		
10/2/2009 8:45	*0.188*	**0.238**	**0.126**	14.3	296	9.7	8.4		
10/2/2009 9:00	*0.197*	**0.247**	**0.140**	14.3	296	9.7	8.4		9:02
10/2/2009 9:15	*0.203*	**0.253**	**0.150**	14.3	296	9.7	8.4		
10/2/2009 9:30	*0.194*	**0.244**	**0.135**	14.3	296	9.7	8.4		
10/2/2009 9:45	*0.191*	**0.241**	**0.131**	14.3	294	9.7	8.4		
10/2/2009 10:00	*0.198*	**0.248**	**0.142**	14.3	292	9.7	8.4		
10/2/2009 10:15	*0.198*	**0.248**	**0.142**	14.3	290	9.7	8.4		
10/2/2009 10:30	*0.206*	**0.256**	**0.156**	14.3	288	9.7	8.4		
10/2/2009 10:45	*0.201*	**0.251**	**0.147**	14.4	286	9.7	8.4		
10/2/2009 11:00	*0.204*	**0.254**	**0.152**	14.4	286	9.7	8.4		
10/2/2009 11:15	*0.211*	**0.261**	**0.165**	14.4	286	9.7	8.4		
10/2/2009 11:30	*0.211*	**0.261**	**0.165**	14.4	286	9.7	8.4		
10/2/2009 11:45	*0.217*	**0.267**	**0.177**	14.4	286	9.7	8.4		
10/2/2009 12:00	*0.207*	**0.257**	**0.157**	14.4	284	9.7	8.4		
10/2/2009 12:15	*0.22*	**0.27**	**0.183**	14.5	286	9.7	8.4		
10/2/2009 12:30	*0.216*	**0.266**	**0.175**	14.5	284	9.7	8.4		
10/2/2009 12:45	*0.237*	**0.287**	**0.223**	14.5	284	9.7	8.4		
10/2/2009 13:00	*0.222*	**0.272**	**0.187**	14.5	284	9.7	8.4		
10/2/2009 13:15	*0.236*	**0.286**	**0.221**	14.5	280	9.7	8.4		
10/2/2009 13:30	*0.217*	**0.267**	**0.177**	14.6	280	9.7	8.4		
10/2/2009 13:45	*0.2269*	**0.2769**	**0.198**	14.6	278	9.6	8.4	*(13)	
10/2/2009 14:00	**0.278**	**0.278**	**0.201**					* (14)	
10/2/2009 14:15	**0.277**	**0.277**	**0.198**						
10/2/2009 14:30	**0.276**	**0.276**	**0.196**						
10/2/2009 14:45	**0.275**	**0.275**	**0.194**						
10/2/2009 15:00	0.2737	0.2737	0.191	14.8	*346*	9.6	8.5		15:00
10/2/2009 15:15	0.2782	0.2782	0.201	14.9	*348*	9.6	8.5		
10/2/2009 15:30	0.272	0.272	0.187	15	*350*	9.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/2/2009 15:45	0.27	0.27	0.183	15	*348*	9.6	8.5		
10/2/2009 16:00	0.268	0.268	0.179	15	*348*	9.6	8.5		
10/2/2009 16:15	0.266	0.266	0.175	15.1	*342*	9.6	8.5		
10/2/2009 16:30	0.263	0.263	0.169	15.1	*342*	9.6	8.5		
10/2/2009 16:45	0.266	0.266	0.175	15.1	*324*	9.6	8.5		
10/2/2009 17:00	0.263	0.263	0.169	15.2	*316*	9.6	8.5		
10/2/2009 17:15	0.261	0.261	0.165	15.2	*314*	9.6	8.5		
10/2/2009 17:30	0.257	0.257	0.157	15.2	*312*	9.5	8.5		
10/2/2009 17:45	0.259	0.259	0.161	15.1	*306*	9.5	8.5		
10/2/2009 18:00	0.255	0.255	0.154	15.1	*304*	9.5	8.5		
10/2/2009 18:15	0.257	0.257	0.157	15.1	*300*	9.5	8.5		
10/2/2009 18:30	0.256	0.256	0.156	15	*298*	9.6	8.5		
10/2/2009 18:45	0.257	0.257	0.157	15	*298*	9.5	8.5		
10/2/2009 19:00	0.258	0.258	0.159	14.9	*296*	9.6	8.5		
10/2/2009 19:15	0.26	0.26	0.163	14.8	*296*	9.6	8.5		
10/2/2009 19:30	0.255	0.255	0.154	14.7	*292*	9.6	8.5		
10/2/2009 19:45	0.254	0.254	0.152	14.7	*292*	9.6	8.5		
10/2/2009 20:00	0.255	0.255	0.154	14.6	*294*	9.6	8.5		
10/2/2009 20:15	0.255	0.255	0.154	14.5	*298*	9.7	8.5		
10/2/2009 20:30	0.253	0.253	0.150	14.4	*290*	9.7	8.5		
10/2/2009 20:45	0.253	0.253	0.150	14.3	*292*	9.7	8.5		
10/2/2009 21:00	0.249	0.249	0.143	14.3	*286*	9.7	8.5		
10/2/2009 21:15	0.252	0.252	0.149	14.2	*288*	9.8	8.5		
10/2/2009 21:30	0.251	0.251	0.147	14.1	*294*	9.8	8.5		
10/2/2009 21:45	0.25	0.25	0.145	14	*294*	9.8	8.5		
10/2/2009 22:00	0.249	0.249	0.143	14	*292*	9.8	8.5		
10/2/2009 22:15	0.247	0.247	0.140	13.9	*290*	9.8	8.5		
10/2/2009 22:30	0.246	0.246	0.139	13.8	*288*	9.8	8.5		
10/2/2009 22:45	0.248	0.248	0.142	13.7	*294*	9.9	8.4		
10/2/2009 23:00	0.249	0.249	0.143	13.7	*292*	9.9	8.4		
10/2/2009 23:15	0.249	0.249	0.143	13.6	*292*	9.9	8.4		
10/2/2009 23:30	0.244	0.244	0.135	13.6	*272*	9.9	8.4		
10/2/2009 23:45	0.244	0.244	0.135	13.5	*288*	9.9	8.4		
10/3/2009 0:00	0.246	0.246	0.139	13.4	*286*	10	8.4		
10/3/2009 0:15	0.244	0.244	0.135	13.4	*284*	10	8.4		
10/3/2009 0:30	0.245	0.245	0.137	13.3	*284*	10	8.4		
10/3/2009 0:45	0.246	0.246	0.139	13.3	*286*	10	8.4		
10/3/2009 1:00	0.245	0.245	0.137	13.2	*282*	10	8.4		
10/3/2009 1:15	0.243	0.243	0.134	13.1	*286*	10.1	8.4		
10/3/2009 1:30	0.247	0.247	0.140	13	*266*	10	8.4		
10/3/2009 1:45	0.243	0.243	0.134	13	*282*	10.1	8.4		
10/3/2009 2:00	0.245	0.245	0.137	12.9	*276*	10.1	8.4		
10/3/2009 2:15	0.245	0.245	0.137	12.8	*262*	10.1	8.4		
10/3/2009 2:30	0.247	0.247	0.140	12.7	*280*	10.2	8.4		
10/3/2009 2:45	0.248	0.248	0.142	12.6	*270*	10.2	8.4		
10/3/2009 3:00	0.245	0.245	0.137	12.6	*276*	10.2	8.4		
10/3/2009 3:15	0.243	0.243	0.134	12.5	*276*	10.2	8.4		
10/3/2009 3:30	0.244	0.244	0.135	12.4	*274*	10.2	8.4		
10/3/2009 3:45	0.243	0.243	0.134	12.4	*268*	10.3	8.4		
10/3/2009 4:00	0.242	0.242	0.132	12.3	*276*	10.2	8.4		
10/3/2009 4:15	0.244	0.244	0.135	12.3	*276*	10.3	8.4		
10/3/2009 4:30	0.245	0.245	0.137	12.2	*260*	10.3	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/3/2009 4:45	0.244	0.244	0.135	12.1	*270*	10.3	8.4		
10/3/2009 5:00	0.244	0.244	0.135	12.1	*272*	10.3	8.4		
10/3/2009 5:15	0.242	0.242	0.132	12	*276*	10.3	8.4		
10/3/2009 5:30	0.244	0.244	0.135	12	*272*	10.3	8.4		
10/3/2009 5:45	0.244	0.244	0.135	11.9	*270*	10.3	8.4		
10/3/2009 6:00	0.242	0.242	0.132	11.9	*264*	10.4	8.4		
10/3/2009 6:15	0.244	0.244	0.135	11.9	*272*	10.4	8.4		
10/3/2009 6:30	0.244	0.244	0.135	11.8	*264*	10.4	8.4		
10/3/2009 6:45	0.243	0.243	0.134	11.8	*262*	10.4	8.4		
10/3/2009 7:00	0.243	0.243	0.134	11.7	*262*	10.4	8.4		
10/3/2009 7:15	0.243	0.243	0.134	11.7	*268*	10.4	8.4		
10/3/2009 7:30	0.243	0.243	0.134	11.6	*268*	10.5	8.4		
10/3/2009 7:45	0.242	0.242	0.132	11.6	*266*	10.5	8.4		
10/3/2009 8:00	0.243	0.243	0.134	11.6	*264*	10.5	8.4		
10/3/2009 8:15	0.242	0.242	0.132	11.6	*268*	10.5	8.4		
10/3/2009 8:30	0.242	0.242	0.132	11.6	*264*	10.5	8.5		
10/3/2009 8:45	0.242	0.242	0.132	11.7	*264*	10.5	8.5		
10/3/2009 9:00	0.24	0.24	0.129	11.9	*260*	10.5	8.5		
10/3/2009 9:15	0.24	0.24	0.129	12	*262*	10.5	8.5		
10/3/2009 9:30	0.241	0.241	0.131	12.2	*260*	10.4	8.5		
10/3/2009 9:45	0.238	0.238	0.126	12.4	*258*	10.4	8.5		
10/3/2009 10:00	0.238	0.238	0.126	12.6	*262*	10.4	8.5		
10/3/2009 10:15	0.24	0.24	0.129	12.7	*256*	10.4	8.5		
10/3/2009 10:30	0.238	0.238	0.126	12.9	*258*	10.3	8.5		
10/3/2009 10:45	0.238	0.238	0.126	13.1	*254*	10.3	8.5		
10/3/2009 11:00	0.24	0.24	0.129	13.2	*250*	10.2	8.5		
10/3/2009 11:15	0.238	0.238	0.126	13.3	*250*	10.2	8.5		
10/3/2009 11:30	0.24	0.24	0.129	13.3	*250*	10.2	8.5		
10/3/2009 11:45	0.239	0.239	0.128	13.3	*246*	10.2	8.5		
10/3/2009 12:00	0.24	0.24	0.129	13.4	*242*	10.1	8.5		
10/3/2009 12:15	0.238	0.238	0.126	13.4	*238*	10.1	8.5		
10/3/2009 12:30	0.237	0.237	0.125	13.5	*236*	10.1	8.5		
10/3/2009 12:45	0.236	0.236	0.123	13.5	*232*	10.1	8.5		
10/3/2009 13:00	0.238	0.238	0.126	13.6	*234*	10.1	8.5		
10/3/2009 13:15	0.237	0.237	0.125	13.7	*230*	10	8.5		
10/3/2009 13:30	0.236	0.236	0.123	13.7	*224*	10	8.5		
10/3/2009 13:45	0.234	0.234	0.120	13.8	*206*	10	8.5		
10/3/2009 14:00	0.233	0.233	0.119	13.8	*204*	10	8.5		
10/3/2009 14:15	0.231	0.231	0.116	13.8	*200*	10	8.5		
10/3/2009 14:30	0.231	0.231	0.116	13.9	*200*	9.9	8.5		
10/3/2009 14:45	0.231	0.231	0.116	14	*204*	9.9	8.5		
10/3/2009 15:00	0.229	0.229	0.114	14	*202*	9.9	8.5		15:00
10/3/2009 15:15	0.232	0.232	0.118	14.1	*200*	9.9	8.5		
10/3/2009 15:30	0.227	0.227	0.111	14.1	*200*	9.9	8.5		
10/3/2009 15:45	0.227	0.227	0.111	14.2	*198*	9.8	8.5		
10/3/2009 16:00	0.226	0.226	0.110	14.2	*194*	9.8	8.5		
10/3/2009 16:15	0.23	0.23	0.115	14.2	*190*	9.8	8.5		
10/3/2009 16:30	0.227	0.227	0.111	14.2	*190*	9.8	8.5		
10/3/2009 16:45	0.229	0.229	0.114	14.2	*194*	9.8	8.5		
10/3/2009 17:00	0.227	0.227	0.111	14.1	*194*	9.8	8.5		
10/3/2009 17:15	0.23	0.23	0.115	14.1	*192*	9.8	8.5		
10/3/2009 17:30	0.228	0.228	0.112	14	*192*	9.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/3/2009 17:45	0.228	0.228	0.112	14	*192*	9.8	8.5		
10/3/2009 18:00	0.227	0.227	0.111	14	*190*	9.9	8.5		
10/3/2009 18:15	0.225	0.225	0.109	13.9	*188*	9.9	8.5		
10/3/2009 18:30	0.226	0.226	0.110	13.8	*184*	9.9	8.5		
10/3/2009 18:45	0.222	0.222	0.105	13.7	*184*	9.9	8.5		
10/3/2009 19:00	0.221	0.221	0.104	13.7	*182*	9.9	8.5		
10/3/2009 19:15	0.221	0.221	0.104	13.6	*178*	9.9	8.5		
10/3/2009 19:30	0.221	0.221	0.104	13.5	*178*	10	8.5		
10/3/2009 19:45	0.215	0.215	0.097	13.4	*178*	10	8.5		
10/3/2009 20:00	0.219	0.219	0.101	13.3	*178*	10	8.5		
10/3/2009 20:15	0.217	0.217	0.099	13.3	*178*	10	8.5		
10/3/2009 20:30	0.217	0.217	0.099	13.2	*178*	10	8.5		
10/3/2009 20:45	0.221	0.221	0.104	13.1	*178*	10.1	8.5		
10/3/2009 21:00	0.218	0.218	0.100	13	*178*	10.1	8.5		
10/3/2009 21:15	0.217	0.217	0.099	12.9	*178*	10.1	8.5		
10/3/2009 21:30	0.216	0.216	0.098	12.9	*182*	10.1	8.5		
10/3/2009 21:45	0.218	0.218	0.100	12.8	*182*	10.2	8.5		
10/3/2009 22:00	0.215	0.215	0.097	12.7	*182*	10.2	8.5		
10/3/2009 22:15	0.216	0.216	0.098	12.6	*182*	10.2	8.5		
10/3/2009 22:30	0.218	0.218	0.100	12.6	*182*	10.2	8.5		
10/3/2009 22:45	0.215	0.215	0.097	12.5	*182*	10.2	8.5		
10/3/2009 23:00	0.218	0.218	0.100	12.4	*182*	10.3	8.5		
10/3/2009 23:15	0.216	0.216	0.098	12.3	*182*	10.3	8.5		
10/3/2009 23:30	0.217	0.217	0.099	12.3	*182*	10.3	8.5		
10/3/2009 23:45	0.218	0.218	0.100	12.2	*180*	10.3	8.5		
10/4/2009 0:00	0.218	0.218	0.100	12.1	*180*	10.4	8.5		
10/4/2009 0:15	0.217	0.217	0.099	12	*180*	10.4	8.5		
10/4/2009 0:30	0.22	0.22	0.102	12	*180*	10.4	8.5		
10/4/2009 0:45	0.217	0.217	0.099	11.9	*180*	10.4	8.5		
10/4/2009 1:00	0.216	0.216	0.098	11.8	*180*	10.4	8.5		
10/4/2009 1:15	0.213	0.213	0.094	11.8	*180*	10.5	8.5		
10/4/2009 1:30	0.216	0.216	0.098	11.7	*194*	10.5	8.5		
10/4/2009 1:45	0.217	0.217	0.099	11.7	*194*	10.5	8.5		
10/4/2009 2:00	0.218	0.218	0.100	11.6	*194*	10.5	8.5		
10/4/2009 2:15	0.218	0.218	0.100	11.6	*196*	10.5	8.5		
10/4/2009 2:30	0.218	0.218	0.100	11.5	*196*	10.5	8.5		
10/4/2009 2:45	0.216	0.216	0.098	11.4	*194*	10.6	8.5		
10/4/2009 3:00	0.216	0.216	0.098	11.4	*194*	10.6	8.4		
10/4/2009 3:15	0.214	0.214	0.095	11.3	*194*	10.6	8.5		
10/4/2009 3:30	0.216	0.216	0.098	11.3	*194*	10.6	8.4		
10/4/2009 3:45	0.214	0.214	0.095	11.3	*194*	10.6	8.4		
10/4/2009 4:00	0.212	0.212	0.093	11.2	*194*	10.6	8.4		
10/4/2009 4:15	0.214	0.214	0.095	11.2	*198*	10.6	8.4		
10/4/2009 4:30	0.213	0.213	0.094	11.1	*196*	10.7	8.4		
10/4/2009 4:45	0.22	0.22	0.102	11.1	*198*	10.6	8.4		
10/4/2009 5:00	0.221	0.221	0.104	11	*198*	10.6	8.4		
10/4/2009 5:15	0.22	0.22	0.102	11	*198*	10.7	8.4		
10/4/2009 5:30	0.221	0.221	0.104	11	*196*	10.7	8.4		
10/4/2009 5:45	0.218	0.218	0.100	10.9	*196*	10.7	8.4		
10/4/2009 6:00	0.221	0.221	0.104	10.9	*200*	10.7	8.4		
10/4/2009 6:15	0.218	0.218	0.100	10.9	*202*	10.7	8.4		
10/4/2009 6:30	0.22	0.22	0.102	10.8	*202*	10.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/4/2009 6:45	0.218	0.218	0.100	10.8	*202*	10.8	8.4		
10/4/2009 7:00	0.222	0.222	0.105	10.8	*202*	10.8	8.4		
10/4/2009 7:15	0.22	0.22	0.102	10.8	*202*	10.8	8.4		
10/4/2009 7:30	0.218	0.218	0.100	10.8	*202*	10.8	8.4		
10/4/2009 7:45	0.219	0.219	0.101	10.8	*200*	10.8	8.5		
10/4/2009 8:00	0.219	0.219	0.101	10.8	*200*	10.8	8.5		
10/4/2009 8:15	0.217	0.217	0.099	10.8	*200*	10.8	8.5		
10/4/2009 8:30	0.219	0.219	0.101	10.9	*200*	10.8	8.5		
10/4/2009 8:45	0.222	0.222	0.105	10.9	*200*	10.8	8.5		
10/4/2009 9:00	0.221	0.221	0.104	11	*200*	10.8	8.5		
10/4/2009 9:15	0.22	0.22	0.102	11.1	*200*	10.8	8.5		
10/4/2009 9:30	0.218	0.218	0.100	11.4	*200*	10.7	8.5		
10/4/2009 9:45	0.22	0.22	0.102	11.5	*200*	10.7	8.5		
10/4/2009 10:00	0.219	0.219	0.101	11.5	*200*	10.7	8.5		
10/4/2009 10:15	0.221	0.221	0.104	11.6	*200*	10.7	8.5		
10/4/2009 10:30	0.221	0.221	0.104	11.7	*200*	10.7	8.5		
10/4/2009 10:45	0.22	0.22	0.102	11.8	*198*	10.7	8.5		
10/4/2009 11:00	0.22	0.22	0.102	12.1	*198*	10.6	8.5		
10/4/2009 11:15	0.216	0.216	0.098	12.2	*198*	10.6	8.5		
10/4/2009 11:30	0.219	0.219	0.101	12.3	*196*	10.5	8.5		
10/4/2009 11:45	0.22	0.22	0.102	12.4	*196*	10.5	8.5		
10/4/2009 12:00	0.219	0.219	0.101	12.4	*196*	10.5	8.5		
10/4/2009 12:15	0.219	0.219	0.101	12.5	*196*	10.4	8.5		
10/4/2009 12:30	0.218	0.218	0.100	12.6	*196*	10.4	8.5		
10/4/2009 12:45	0.216	0.216	0.098	12.7	*198*	10.4	8.5		
10/4/2009 13:00	0.219	0.219	0.101	12.7	*198*	10.4	8.5		
10/4/2009 13:15	0.219	0.219	0.101	12.8	*198*	10.3	8.5		
10/4/2009 13:30	0.218	0.218	0.100	12.9	*198*	10.4	8.5		
10/4/2009 13:45	0.222	0.222	0.105	12.9	*200*	10.3	8.5		
10/4/2009 14:00	0.221	0.221	0.104	12.9	*200*	10.3	8.5		
10/4/2009 14:15	0.221	0.221	0.104	12.9	*198*	10.3	8.5		
10/4/2009 14:30	0.218	0.218	0.100	12.9	*196*	10.3	8.5		
10/4/2009 14:45	0.22	0.22	0.102	12.9	*196*	10.2	8.5		
10/4/2009 15:00	0.218	0.218	0.100	12.9	*196*	10.3	8.5		15:00
10/4/2009 15:15	0.218	0.218	0.100	12.9	*194*	10.2	8.5		
10/4/2009 15:30	0.218	0.218	0.100	13	*194*	10.3	8.5		
10/4/2009 15:45	0.218	0.218	0.100	13	*194*	10.3	8.5		
10/4/2009 16:00	0.217	0.217	0.099	13	*194*	10.2	8.5		
10/4/2009 16:15	0.218	0.218	0.100	12.9	*194*	10.2	8.5		
10/4/2009 16:30	0.219	0.219	0.101	12.9	*192*	10.2	8.5		
10/4/2009 16:45	0.218	0.218	0.100	12.9	*192*	10.2	8.5		
10/4/2009 17:00	0.22	0.22	0.102	12.9	*192*	10.2	8.5		
10/4/2009 17:15	0.22	0.22	0.102	12.9	*192*	10.2	8.5		
10/4/2009 17:30	0.218	0.218	0.100	12.8	*192*	10.2	8.5		
10/4/2009 17:45	0.218	0.218	0.100	12.8	*192*	10.2	8.5		
10/4/2009 18:00	0.219	0.219	0.101	12.8	*192*	10.2	8.5		
10/4/2009 18:15	0.212	0.212	0.093	12.8	*192*	10.2	8.5		
10/4/2009 18:30	0.219	0.219	0.101	12.7	*190*	10.2	8.5		
10/4/2009 18:45	0.221	0.221	0.104	12.7	*190*	10.2	8.5		
10/4/2009 19:00	0.219	0.219	0.101	12.7	*190*	10.2	8.5		
10/4/2009 19:15	0.22	0.22	0.102	12.7	*188*	10.2	8.5		
10/4/2009 19:30	0.226	0.226	0.110	12.7	*188*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/4/2009 19:45	0.224	0.224	0.107	12.6	*186*	10.2	8.5		
10/4/2009 20:00	0.224	0.224	0.107	12.6	*186*	10.2	8.5		
10/4/2009 20:15	0.228	0.228	0.112	12.6	*184*	10.3	8.5		
10/4/2009 20:30	0.229	0.229	0.114	12.6	*184*	10.3	8.5		
10/4/2009 20:45	0.23	0.23	0.115	12.6	*182*	10.3	8.5		
10/4/2009 21:00	0.231	0.231	0.116	12.6	*182*	10.3	8.5		
10/4/2009 21:15	0.232	0.232	0.118	12.5	*182*	10.2	8.5		
10/4/2009 21:30	0.233	0.233	0.119	12.5	*194*	10.3	8.5		
10/4/2009 21:45	0.236	0.236	0.123	12.5	*194*	10.3	8.5		
10/4/2009 22:00	0.221	0.221	0.104	12.5	*192*	10.3	8.5		
10/4/2009 22:15	0.237	0.237	0.125	12.5	*192*	10.3	8.5		
10/4/2009 22:30	0.234	0.234	0.120	12.5	*190*	10.3	8.5		
10/4/2009 22:45	0.238	0.238	0.126	12.5	*190*	10.3	8.5		
10/4/2009 23:00	0.238	0.238	0.126	12.5	*190*	10.3	8.5		
10/4/2009 23:15	0.236	0.236	0.123	12.5	*188*	10.3	8.5		
10/4/2009 23:30	0.233	0.233	0.119	12.5	*188*	10.3	8.5		
10/4/2009 23:45	0.243	0.243	0.134	12.5	*194*	10.3	8.5		
10/5/2009 0:00	0.246	0.246	0.139	12.5	*194*	10.3	8.5		
10/5/2009 0:15	0.249	0.249	0.143	12.5	*196*	10.3	8.5		
10/5/2009 0:30	0.249	0.249	0.143	12.5	*192*	10.3	8.5		
10/5/2009 0:45	0.25	0.25	0.145	12.5	*190*	10.3	8.5		
10/5/2009 1:00	0.246	0.246	0.139	12.5	*190*	10.3	8.5		
10/5/2009 1:15	0.247	0.247	0.140	12.5	*192*	10.3	8.5		
10/5/2009 1:30	0.248	0.248	0.142	12.5	*190*	10.3	8.5		
10/5/2009 1:45	0.251	0.251	0.147	12.5	*188*	10.3	8.5		
10/5/2009 2:00	0.248	0.248	0.142	12.5	*190*	10.3	8.5		
10/5/2009 2:15	0.243	0.243	0.134	12.5	*190*	10.2	8.5		
10/5/2009 2:30	0.249	0.249	0.143	12.5	*182*	10.3	8.5		
10/5/2009 2:45	0.248	0.248	0.142	12.5	*194*	10.3	8.5		
10/5/2009 3:00	0.248	0.248	0.142	12.6	*190*	10.3	8.5		
10/5/2009 3:15	0.245	0.245	0.137	12.6	*186*	10.3	8.5		
10/5/2009 3:30	0.239	0.239	0.128	12.6	*190*	10.3	8.5		
10/5/2009 3:45	0.244	0.244	0.135	12.6	*188*	10.2	8.5		
10/5/2009 4:00	0.243	0.243	0.134	12.6	*188*	10.3	8.5		
10/5/2009 4:15	0.24	0.24	0.129	12.6	*188*	10.2	8.5		
10/5/2009 4:30	0.242	0.242	0.132	12.6	*186*	10.2	8.5		
10/5/2009 4:45	0.243	0.243	0.134	12.6	*192*	10.2	8.5		
10/5/2009 5:00	0.239	0.239	0.128	12.6	*194*	10.2	8.5		
10/5/2009 5:15	0.236	0.236	0.123	12.6	*192*	10.2	8.5		
10/5/2009 5:30	0.234	0.234	0.120	12.6	*190*	10.2	8.5		
10/5/2009 5:45	0.232	0.232	0.118	12.7	*186*	10.2	8.5		
10/5/2009 6:00	0.234	0.234	0.120	12.7	*184*	10.2	8.5		
10/5/2009 6:15	0.232	0.232	0.118	12.7	*184*	10.2	8.5		
10/5/2009 6:30	0.233	0.233	0.119	12.7	*182*	10.2	8.5		
10/5/2009 6:45	0.231	0.231	0.116	12.7	*180*	10.2	8.5		
10/5/2009 7:00	0.233	0.233	0.119	12.7	*180*	10.2	8.5		
10/5/2009 7:15	0.23	0.23	0.115	12.7	*180*	10.2	8.5		
10/5/2009 7:30	0.231	0.231	0.116	12.8	*178*	10.2	8.5		
10/5/2009 7:45	0.234	0.234	0.120	12.8	*178*	10.2	8.5		
10/5/2009 8:00	0.224	0.224	0.107	12.8	*178*	10.2	8.5		
10/5/2009 8:15	0.233	0.233	0.119	12.9	*176*	10.2	8.5		
10/5/2009 8:30	0.229	0.229	0.114	12.9	*176*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/5/2009 8:45	0.231	0.231	0.116	13	*176*	10.2	8.5		
10/5/2009 9:00	0.231	0.231	0.116	13	*176*	10.2	8.5		
10/5/2009 9:15	0.229	0.229	0.114	13.1	*176*	10.2	8.5		
10/5/2009 9:30	0.229	0.229	0.114	13.1	*176*	10.2	8.5		
10/5/2009 9:45	0.228	0.228	0.112	13.2	*176*	10.2	8.5		
10/5/2009 10:00	0.228	0.228	0.112	13.3	*176*	10.2	8.5		
10/5/2009 10:15	0.226	0.226	0.110	13.4	*176*	10.2	8.5		
10/5/2009 10:30	0.223	0.223	0.106	13.4	*176*	10.2	8.5		
10/5/2009 10:45	0.224	0.224	0.107	13.5	*176*	10.1	8.5		
10/5/2009 11:00	0.225	0.225	0.109	13.6	*176*	10.1	8.5		
10/5/2009 11:15	0.229	0.229	0.114	13.7	*176*	10.1	8.5		
10/5/2009 11:30	0.225	0.225	0.109	13.8	*176*	10.1	8.6		
10/5/2009 11:45	0.223	0.223	0.106	14	*176*	10.1	8.6		
10/5/2009 12:00	0.228	0.228	0.112	14.3	*176*	10	8.6		
10/5/2009 12:15	0.222	0.222	0.105	14.3	*176*	10	8.6		
10/5/2009 12:30	0.221	0.221	0.104	14.4	*176*	9.9	8.6		
10/5/2009 12:45	0.225	0.225	0.109	14.6	*176*	9.9	8.6		
10/5/2009 13:00	0.224	0.224	0.107	14.7	*174*	9.9	8.6		
10/5/2009 13:15	0.222	0.222	0.105	14.7	*174*	9.8	8.6		
10/5/2009 13:30	0.223	0.223	0.106	14.8	*176*	9.8	8.6		
10/5/2009 13:45	0.226	0.226	0.110	14.8	*176*	9.8	8.6		
10/5/2009 14:00	0.221	0.221	0.104	14.8	*176*	9.8	8.6		
10/5/2009 14:15	0.22	0.22	0.102	14.8	*176*	9.8	8.6		
10/5/2009 14:30	0.224	0.224	0.107	14.8	*186*	9.8	8.6		
10/5/2009 14:45	0.22	0.22	0.102	14.7	*186*	9.8	8.6		
10/5/2009 15:00	0.221	0.221	0.104	14.7	*186*	9.8	8.5		15:00
10/5/2009 15:15	0.218	0.218	0.100	14.7	*186*	9.8	8.5		
10/5/2009 15:30	0.221	0.221	0.104	14.7	*186*	9.8	8.5		
10/5/2009 15:45	0.223	0.223	0.106	14.7	*186*	9.8	8.5		
10/5/2009 16:00	0.22	0.22	0.102	14.6	*186*	9.8	8.5		
10/5/2009 16:15	0.221	0.221	0.104	14.6	*184*	9.8	8.5		
10/5/2009 16:30	0.218	0.218	0.100	14.6	*184*	9.8	8.5		
10/5/2009 16:45	0.222	0.222	0.105	14.6	*186*	9.7	8.5		
10/5/2009 17:00	0.221	0.221	0.104	14.6	*186*	9.7	8.5		
10/5/2009 17:15	0.219	0.219	0.101	14.6	*186*	9.8	8.5		
10/5/2009 17:30	0.22	0.22	0.102	14.6	*186*	9.8	8.5		
10/5/2009 17:45	0.222	0.222	0.105	14.6	*186*	9.7	8.5		
10/5/2009 18:00	0.221	0.221	0.104	14.5	*186*	9.7	8.5		
10/5/2009 18:15	0.216	0.216	0.098	14.5	*194*	9.7	8.5		
10/5/2009 18:30	0.221	0.221	0.104	14.5	*194*	9.7	8.5		
10/5/2009 18:45	0.218	0.218	0.100	14.5	*190*	9.7	8.5		
10/5/2009 19:00	0.221	0.221	0.104	14.5	*190*	9.7	8.5		
10/5/2009 19:15	0.221	0.221	0.104	14.4	*190*	9.7	8.5		
10/5/2009 19:30	0.219	0.219	0.101	14.4	*190*	9.7	8.5		
10/5/2009 19:45	0.221	0.221	0.104	14.4	*192*	9.7	8.5		
10/5/2009 20:00	0.221	0.221	0.104	14.4	*192*	9.7	8.5		
10/5/2009 20:15	0.219	0.219	0.101	14.4	*192*	9.8	8.5		
10/5/2009 20:30	0.218	0.218	0.100	14.4	*192*	9.8	8.5		
10/5/2009 20:45	0.216	0.216	0.098	14.4	*192*	9.7	8.5		
10/5/2009 21:00	0.222	0.222	0.105	14.4	*192*	9.8	8.5		
10/5/2009 21:15	0.22	0.22	0.102	14.4	*192*	9.8	8.5		
10/5/2009 21:30	0.221	0.221	0.104	14.4	*192*	9.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/5/2009 21:45	0.221	0.221	0.104	14.4	*192*	9.8	8.5		
10/5/2009 22:00	0.22	0.22	0.102	14.4	*192*	9.7	8.5		
10/5/2009 22:15	0.217	0.217	0.099	14.3	*192*	9.7	8.5		
10/5/2009 22:30	0.22	0.22	0.102	14.3	*190*	9.8	8.5		
10/5/2009 22:45	0.221	0.221	0.104	14.3	*190*	9.8	8.5		
10/5/2009 23:00	0.219	0.219	0.101	14.3	*190*	9.8	8.5		
10/5/2009 23:15	0.219	0.219	0.101	14.3	*192*	9.7	8.5		
10/5/2009 23:30	0.215	0.215	0.097	14.3	*192*	9.8	8.5		
10/5/2009 23:45	0.219	0.219	0.101	14.3	*192*	9.7	8.5		
10/6/2009 0:00	0.217	0.217	0.099	14.3	*192*	9.8	8.5		
10/6/2009 0:15	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 0:30	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 0:45	0.219	0.219	0.101	14.3	*192*	9.8	8.5		
10/6/2009 1:00	0.22	0.22	0.102	14.3	*192*	9.8	8.5		
10/6/2009 1:15	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 1:30	0.214	0.214	0.095	14.3	*192*	9.8	8.5		
10/6/2009 1:45	0.219	0.219	0.101	14.3	*192*	9.8	8.5		
10/6/2009 2:00	0.221	0.221	0.104	14.3	*192*	9.7	8.5		
10/6/2009 2:15	0.219	0.219	0.101	14.3	*192*	9.8	8.5		
10/6/2009 2:30	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 2:45	0.218	0.218	0.100	14.3	*192*	9.7	8.5		
10/6/2009 3:00	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 3:15	0.219	0.219	0.101	14.3	*192*	9.8	8.5		
10/6/2009 3:30	0.218	0.218	0.100	14.3	*192*	9.8	8.5		
10/6/2009 3:45	0.221	0.221	0.104	14.3	*192*	9.7	8.5		
10/6/2009 4:00	0.22	0.22	0.102	14.3	*192*	9.7	8.5		
10/6/2009 4:15	0.219	0.219	0.101	14.3	*192*	9.7	8.5		
10/6/2009 4:30	0.22	0.22	0.102	14.3	*190*	9.8	8.5		
10/6/2009 4:45	0.216	0.216	0.098	14.3	*190*	9.8	8.5		
10/6/2009 5:00	0.218	0.218	0.100	14.4	*190*	9.8	8.5		
10/6/2009 5:15	0.22	0.22	0.102	14.4	*192*	9.7	8.5		
10/6/2009 5:30	0.217	0.217	0.099	14.4	*192*	9.7	8.5		
10/6/2009 5:45	0.217	0.217	0.099	14.4	*192*	9.7	8.5		
10/6/2009 6:00	0.216	0.216	0.098	14.4	*192*	9.7	8.5		
10/6/2009 6:15	0.216	0.216	0.098	14.4	*192*	9.7	8.5		
10/6/2009 6:30	0.22	0.22	0.102	14.4	*192*	9.7	8.4		
10/6/2009 6:45	0.221	0.221	0.104	14.4	*192*	9.8	8.4		
10/6/2009 7:00	0.219	0.219	0.101	14.4	*196*	9.7	8.5		
10/6/2009 7:15	0.223	0.223	0.106	14.4	*196*	9.7	8.5		
10/6/2009 7:30	0.22	0.22	0.102	14.4	*196*	9.7	8.5		
10/6/2009 7:45	0.221	0.221	0.104	14.4	*194*	9.7	8.5		
10/6/2009 8:00	0.221	0.221	0.104	14.5	*196*	9.7	8.5		
10/6/2009 8:15	0.219	0.219	0.101	14.5	*194*	9.8	8.5		
10/6/2009 8:30	0.221	0.221	0.104	14.5	*194*	9.7	8.5		
10/6/2009 8:45	0.223	0.223	0.106	14.5	*194*	9.8	8.5		
10/6/2009 9:00	0.22	0.22	0.102	14.6	*194*	9.8	8.5		
10/6/2009 9:15	0.219	0.219	0.101	14.6	*194*	9.8	8.5		
10/6/2009 9:30	0.219	0.219	0.101	14.6	*194*	9.8	8.5		
10/6/2009 9:45	0.222	0.222	0.105	14.7	*194*	9.8	8.5		
10/6/2009 10:00	0.221	0.221	0.104	14.7	*194*	9.7	8.5		
10/6/2009 10:15	0.219	0.219	0.101	14.8	*194*	9.7	8.5		
10/6/2009 10:30	0.223	0.223	0.106	14.8	*194*	9.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/6/2009 10:45	0.221	0.221	0.104	14.9	*194*	9.7	8.5		
10/6/2009 11:00	0.221	0.221	0.104	14.9	*194*	9.7	8.5		
10/6/2009 11:15	0.222	0.222	0.105	14.9	*194*	9.7	8.5		
10/6/2009 11:30	0.219	0.219	0.101	14.9	*194*	9.7	8.5		
10/6/2009 11:45	0.219	0.219	0.101	15	*194*	9.7	8.5		
10/6/2009 12:00	0.222	0.222	0.105	15	*194*	9.7	8.5		
10/6/2009 12:15	0.22	0.22	0.102	15	*194*	9.7	8.5		
10/6/2009 12:30	0.221	0.221	0.104	15	*194*	9.7	8.5		
10/6/2009 12:45	0.226	0.226	0.110	15	*194*	9.7	8.5		
10/6/2009 13:00	0.224	0.224	0.107	15	*194*	9.6	8.6		
10/6/2009 13:15	0.224	0.224	0.107	15	*194*	9.6	8.5		
10/6/2009 13:30	0.222	0.222	0.105	15.1	*194*	9.6	8.5		
10/6/2009 13:45	0.225	0.225	0.109	15.1	*194*	9.6	8.5		
10/6/2009 14:00	0.221	0.221	0.104	15.1	*194*	9.6	8.5		
10/6/2009 14:15	0.223	0.223	0.106	15.1	*194*	9.6	8.5		
10/6/2009 14:30	0.222	0.222	0.105	15.1	*194*	9.6	8.5		
10/6/2009 14:45	0.222	0.222	0.105	15.1	*194*	9.5	8.5		
10/6/2009 15:00	0.223	0.223	0.106	15.1	*194*	9.6	8.5		15:00
10/6/2009 15:15	0.229	0.229	0.114	15.1	*190*	9.6	8.5		
10/6/2009 15:30	0.232	0.232	0.118	15.1	*188*	9.6	8.5		
10/6/2009 15:45	0.231	0.231	0.116	15.1	*188*	9.5	8.5		
10/6/2009 16:00	0.233	0.233	0.119	15.1	*184*	9.5	8.5		
10/6/2009 16:15	0.233	0.233	0.119	15.1	*182*	9.5	8.5		
10/6/2009 16:30	0.241	0.241	0.131	15.2	*182*	9.6	8.5		
10/6/2009 16:45	0.239	0.239	0.128	15.2	*188*	9.5	8.5		
10/6/2009 17:00	0.244	0.244	0.135	15.2	*188*	9.5	8.5		
10/6/2009 17:15	0.243	0.243	0.134	15.2	*184*	9.5	8.5		
10/6/2009 17:30	0.25	0.25	0.145	15.2	*186*	9.5	8.5		
10/6/2009 17:45	0.253	0.253	0.150	15.2	*218*	9.5	8.5		
10/6/2009 18:00	0.264	0.264	0.171	15.2	*216*	9.5	8.5		
10/6/2009 18:15	0.263	0.263	0.169	15.2	306	9.5	8.5		
10/6/2009 18:30	0.262	0.262	0.167	15.2	400	9.6	8.5		
10/6/2009 18:45	0.26	0.26	0.163	15.2	400	9.6	8.5		
10/6/2009 19:00	0.261	0.261	0.165	15.2	398	9.5	8.5		
10/6/2009 19:15	0.258	0.258	0.159	15.2	388	9.5	8.5		
10/6/2009 19:30	0.255	0.255	0.154	15.2	380	9.5	8.5		
10/6/2009 19:45	0.251	0.251	0.147	15.2	374	9.5	8.5		
10/6/2009 20:00	0.253	0.253	0.150	15.2	370	9.5	8.5		
10/6/2009 20:15	0.245	0.245	0.137	15.3	368	9.5	8.5		
10/6/2009 20:30	0.246	0.246	0.139	15.3	362	9.5	8.5		
10/6/2009 20:45	0.248	0.248	0.142	15.3	350	9.5	8.5		
10/6/2009 21:00	0.243	0.243	0.134	15.3	338	9.5	8.5		
10/6/2009 21:15	0.233	0.233	0.119	15.3	328	9.5	8.5		
10/6/2009 21:30	0.233	0.233	0.119	15.3	324	9.5	8.5		
10/6/2009 21:45	0.233	0.233	0.119	15.4	314	9.5	8.5		
10/6/2009 22:00	0.231	0.231	0.116	15.4	314	9.4	8.5		
10/6/2009 22:15	0.236	0.236	0.123	15.4	306	9.5	8.5		
10/6/2009 22:30	0.238	0.238	0.126	15.5	300	9.4	8.5		
10/6/2009 22:45	0.232	0.232	0.118	15.5	300	9.4	8.5		
10/6/2009 23:00	0.232	0.232	0.118	15.5	300	9.5	8.5		
10/6/2009 23:15	0.237	0.237	0.125	15.5	300	9.4	8.5		
10/6/2009 23:30	0.234	0.234	0.120	15.5	300	9.4	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/6/2009 23:45	0.235	0.235	0.122	15.6	292	9.4	8.5		
10/7/2009 0:00	0.235	0.235	0.122	15.6	292	9.4	8.5		
10/7/2009 0:15	0.234	0.234	0.120	15.6	290	9.4	8.5		
10/7/2009 0:30	0.24	0.24	0.129	15.6	288	9.4	8.5		
10/7/2009 0:45	0.232	0.232	0.118	15.6	284	9.4	8.5		
10/7/2009 1:00	0.231	0.231	0.116	15.7	272	9.4	8.5		
10/7/2009 1:15	0.237	0.237	0.125	15.7	284	9.4	8.5		
10/7/2009 1:30	0.234	0.234	0.120	15.7	258	9.4	8.5		
10/7/2009 1:45	0.237	0.237	0.125	15.7	268	9.3	8.5		
10/7/2009 2:00	0.24	0.24	0.129	15.7	266	9.4	8.5		
10/7/2009 2:15	0.234	0.234	0.120	15.8	262	9.4	8.5		
10/7/2009 2:30	0.236	0.236	0.123	15.8	276	9.4	8.5		
10/7/2009 2:45	0.236	0.236	0.123	15.8	258	9.3	8.5		
10/7/2009 3:00	0.238	0.238	0.126	15.8	264	9.3	8.5		
10/7/2009 3:15	0.239	0.239	0.128	15.8	246	9.3	8.5		
10/7/2009 3:30	0.236	0.236	0.123	15.8	250	9.4	8.5		
10/7/2009 3:45	0.24	0.24	0.129	15.8	238	9.4	8.5		
10/7/2009 4:00	0.238	0.238	0.126	15.8	246	9.3	8.5		
10/7/2009 4:15	0.232	0.232	0.118	15.7	232	9.3	8.5		
10/7/2009 4:30	0.238	0.238	0.126	15.7	234	9.4	8.5		
10/7/2009 4:45	0.241	0.241	0.131	15.6	256	9.4	8.5		
10/7/2009 5:00	0.237	0.237	0.125	15.6	258	9.4	8.5		
10/7/2009 5:15	0.242	0.242	0.132	15.5	234	9.4	8.5		
10/7/2009 5:30	0.241	0.241	0.131	15.5	238	9.4	8.5		
10/7/2009 5:45	0.243	0.243	0.134	15.4	278	9.4	8.5		
10/7/2009 6:00	0.241	0.241	0.131	15.4	292	9.5	8.5		
10/7/2009 6:15	0.244	0.244	0.135	15.3	260	9.5	8.5		
10/7/2009 6:30	0.246	0.246	0.139	15.3	252	9.5	8.5		
10/7/2009 6:45	0.241	0.241	0.131	15.3	252	9.5	8.5		
10/7/2009 7:00	0.242	0.242	0.132	15.2	248	9.5	8.5		
10/7/2009 7:15	0.246	0.246	0.139	15.2	258	9.5	8.5		
10/7/2009 7:30	0.242	0.242	0.132	15.1	250	9.6	8.5		
10/7/2009 7:45	0.244	0.244	0.135	15.1	248	9.6	8.5		
10/7/2009 8:00	0.241	0.241	0.131	15.1	238	9.6	8.5		
10/7/2009 8:15	0.239	0.239	0.128	15.1	264	9.6	8.5		
10/7/2009 8:30	0.238	0.238	0.126	15.1	280	9.6	8.5		
10/7/2009 8:45	0.24	0.24	0.129	15.1	256	9.6	8.5		
10/7/2009 9:00	0.238	0.238	0.126	15.2	266	9.6	8.5		
10/7/2009 9:15	0.24	0.24	0.129	15.2	276	9.6	8.5		
10/7/2009 9:30	0.235	0.235	0.122	15.3	250	9.7	8.5		
10/7/2009 9:45	0.234	0.234	0.120	15.4	244	9.7	8.5		
10/7/2009 10:00	0.236	0.236	0.123	15.5	280	9.7	8.5		
10/7/2009 10:15	0.233	0.233	0.119	15.5	272	9.6	8.5		
10/7/2009 10:30	0.236	0.236	0.123	15.6	270	9.6	8.5		
10/7/2009 10:45	0.234	0.234	0.120	15.6	268	9.6	8.5		
10/7/2009 11:00	0.23	0.23	0.115	15.6	262	9.6	8.5		
10/7/2009 11:15	0.236	0.236	0.123	15.6	250	9.6	8.5		
10/7/2009 11:30	0.229	0.229	0.114	15.6	250	9.6	8.5		
10/7/2009 11:45	0.231	0.231	0.116	15.5	248	9.6	8.5		
10/7/2009 12:00	0.232	0.232	0.118	15.5	262	9.6	8.5		
10/7/2009 12:15	0.233	0.233	0.119	15.4	258	9.6	8.6		
10/7/2009 12:30	0.231	0.231	0.116	15.4	244	9.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/7/2009 12:45	0.23	0.23	0.115	15.4	258	9.6	8.5		
10/7/2009 13:00	0.229	0.229	0.114	15.4	270	9.6	8.5		
10/7/2009 13:15	0.228	0.228	0.112	15.4	252	9.6	8.5		
10/7/2009 13:30	0.228	0.228	0.112	15.4	262	9.6	8.5		
10/7/2009 13:45	0.226	0.226	0.110	15.4	268	9.6	8.5		
10/7/2009 14:00	0.229	0.229	0.114	15.4	264	9.5	8.5		
10/7/2009 14:15	0.226	0.226	0.110	15.4	262	9.6	8.5		
10/7/2009 14:30	0.23	0.23	0.115	15.5	262	9.6	8.5		
10/7/2009 14:45	0.23	0.23	0.115	15.5	262	9.5	8.5		
10/7/2009 15:00	0.226	0.226	0.110	15.6	236	9.5	8.5		15:00
10/7/2009 15:15	0.228	0.228	0.112	15.6	264	9.5	8.5		
10/7/2009 15:30	0.224	0.224	0.107	15.6	264	9.5	8.5		
10/7/2009 15:45	0.228	0.228	0.112	15.6	264	9.5	8.5		
10/7/2009 16:00	0.224	0.224	0.107	15.6	256	9.5	8.5		
10/7/2009 16:15	0.227	0.227	0.111	15.5	258	9.5	8.5		
10/7/2009 16:30	0.226	0.226	0.110	15.5	252	9.5	8.5		
10/7/2009 16:45	0.224	0.224	0.107	15.4	262	9.5	8.5		
10/7/2009 17:00	0.229	0.229	0.114	15.4	270	9.5	8.5		
10/7/2009 17:15	0.226	0.226	0.110	15.3	260	9.6	8.5		
10/7/2009 17:30	0.221	0.221	0.104	15.2	262	9.6	8.5		
10/7/2009 17:45	0.225	0.225	0.109	15.1	272	9.6	8.5		
10/7/2009 18:00	0.222	0.222	0.105	15.1	268	9.6	8.5		
10/7/2009 18:15	0.229	0.229	0.114	15	270	9.6	8.5		
10/7/2009 18:30	0.223	0.223	0.106	14.9	268	9.6	8.5		
10/7/2009 18:45	0.222	0.222	0.105	14.7	272	9.6	8.5		
10/7/2009 19:00	0.223	0.223	0.106	14.6	282	9.7	8.5		
10/7/2009 19:15	0.223	0.223	0.106	14.5	274	9.7	8.5		
10/7/2009 19:30	0.223	0.223	0.106	14.4	266	9.7	8.5		
10/7/2009 19:45	0.221	0.221	0.104	14.3	274	9.8	8.5		
10/7/2009 20:00	0.221	0.221	0.104	14.3	280	9.8	8.5		
10/7/2009 20:15	0.219	0.219	0.101	14.2	276	9.8	8.5		
10/7/2009 20:30	0.217	0.217	0.099	14.1	278	9.8	8.5		
10/7/2009 20:45	0.219	0.219	0.101	14	284	9.8	8.5		
10/7/2009 21:00	0.22	0.22	0.102	13.9	276	9.9	8.5		
10/7/2009 21:15	0.223	0.223	0.106	13.8	266	9.9	8.5		
10/7/2009 21:30	0.224	0.224	0.107	13.7	284	9.9	8.5		
10/7/2009 21:45	0.221	0.221	0.104	13.7	284	9.9	8.5		
10/7/2009 22:00	0.221	0.221	0.104	13.6	284	10	8.5		
10/7/2009 22:15	0.222	0.222	0.105	13.6	280	10	8.5		
10/7/2009 22:30	0.219	0.219	0.101	13.5	278	10	8.5		
10/7/2009 22:45	0.219	0.219	0.101	13.4	280	10	8.5		
10/7/2009 23:00	0.217	0.217	0.099	13.4	286	10	8.5		
10/7/2009 23:15	0.219	0.219	0.101	13.3	284	10	8.5		
10/7/2009 23:30	0.22	0.22	0.102	13.3	286	10.1	8.5		
10/7/2009 23:45	0.221	0.221	0.104	13.2	288	10	8.5		
10/8/2009 0:00	0.216	0.216	0.098	13.2	286	10.1	8.5		
10/8/2009 0:15	0.222	0.222	0.105	13.1	288	10.1	8.5		
10/8/2009 0:30	0.218	0.218	0.100	13.1	288	10.1	8.5		
10/8/2009 0:45	0.219	0.219	0.101	13	290	10.1	8.5		
10/8/2009 1:00	0.22	0.22	0.102	13	292	10.1	8.5		
10/8/2009 1:15	0.221	0.221	0.104	12.9	290	10.2	8.5		
10/8/2009 1:30	0.221	0.221	0.104	12.9	288	10.1	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/8/2009 1:45	0.219	0.219	0.101	12.9	290	10.2	8.5		
10/8/2009 2:00	0.218	0.218	0.100	12.8	288	10.2	8.5		
10/8/2009 2:15	0.22	0.22	0.102	12.8	290	10.2	8.5		
10/8/2009 2:30	0.218	0.218	0.100	12.7	294	10.2	8.5		
10/8/2009 2:45	0.219	0.219	0.101	12.7	294	10.2	8.5		
10/8/2009 3:00	0.22	0.22	0.102	12.6	294	10.3	8.5		
10/8/2009 3:15	0.218	0.218	0.100	12.6	294	10.3	8.5		
10/8/2009 3:30	0.219	0.219	0.101	12.5	294	10.3	8.5		
10/8/2009 3:45	0.221	0.221	0.104	12.5	292	10.3	8.5		
10/8/2009 4:00	0.218	0.218	0.100	12.4	294	10.3	8.5		
10/8/2009 4:15	0.217	0.217	0.099	12.4	292	10.3	8.5		
10/8/2009 4:30	0.218	0.218	0.100	12.4	292	10.3	8.5		
10/8/2009 4:45	0.22	0.22	0.102	12.3	294	10.3	8.5		
10/8/2009 5:00	0.216	0.216	0.098	12.3	292	10.4	8.5		
10/8/2009 5:15	0.218	0.218	0.100	12.2	290	10.4	8.5		
10/8/2009 5:30	0.216	0.216	0.098	12.2	292	10.4	8.5		
10/8/2009 5:45	0.217	0.217	0.099	12.1	294	10.4	8.5		
10/8/2009 6:00	0.218	0.218	0.100	12.1	292	10.4	8.5		
10/8/2009 6:15	0.217	0.217	0.099	12.1	292	10.4	8.5		
10/8/2009 6:30	0.219	0.219	0.101	12	292	10.4	8.5		
10/8/2009 6:45	0.214	0.214	0.095	12	292	10.4	8.5		
10/8/2009 7:00	0.216	0.216	0.098	11.9	292	10.5	8.5		
10/8/2009 7:15	0.212	0.212	0.093	11.9	292	10.5	8.5		
10/8/2009 7:30	0.216	0.216	0.098	11.9	294	10.5	8.5		
10/8/2009 7:45	0.218	0.218	0.100	11.9	294	10.5	8.5		
10/8/2009 8:00	0.216	0.216	0.098	11.9	292	10.5	8.5		
10/8/2009 8:15	0.216	0.216	0.098	11.9	292	10.6	8.5		
10/8/2009 8:30	0.216	0.216	0.098	11.9	292	10.5	8.5		
10/8/2009 8:45	0.217	0.217	0.099	11.9	292	10.6	8.5		
10/8/2009 9:00	0.216	0.216	0.098	12	292	10.6	8.5		
10/8/2009 9:15	0.214	0.214	0.095	12.1	290	10.5	8.5		
10/8/2009 9:30	0.217	0.217	0.099	12.3	292	10.5	8.5		
10/8/2009 9:45	0.219	0.219	0.101	12.4	288	10.5	8.5		
10/8/2009 10:00	0.216	0.216	0.098	12.5	290	10.5	8.5		
10/8/2009 10:15	0.216	0.216	0.098	12.7	290	10.4	8.5		
10/8/2009 10:30	0.218	0.218	0.100	13	290	10.4	8.5		
10/8/2009 10:45	0.216	0.216	0.098	13.1	290	10.4	8.5		
10/8/2009 11:00	0.216	0.216	0.098	13.2	288	10.3	8.5		
10/8/2009 11:15	0.212	0.212	0.093	13.3	288	10.3	8.5		
10/8/2009 11:30	0.215	0.215	0.097	13.4	288	10.2	8.5		
10/8/2009 11:45	0.215	0.215	0.097	13.6	288	10.2	8.5		
10/8/2009 12:00	0.216	0.216	0.098	13.6	288	10.2	8.5		
10/8/2009 12:15	0.216	0.216	0.098	13.7	286	10.1	8.5		
10/8/2009 12:30	0.218	0.218	0.100	13.8	286	10.1	8.5		
10/8/2009 12:45	0.215	0.215	0.097	13.9	286	10.1	8.5		
10/8/2009 13:00	0.213	0.213	0.094	13.9	284	10.1	8.5		
10/8/2009 13:15	0.217	0.217	0.099	14	288	10	8.5		
10/8/2009 13:30	0.214	0.214	0.095	14.1	278	10	8.5		
10/8/2009 13:45	0.217	0.217	0.099	14.2	282	10	8.5		
10/8/2009 14:00	0.211	0.211	0.092	14.3	288	10	8.5		
10/8/2009 14:15	0.211	0.211	0.092	14.4	270	9.9	8.5		
10/8/2009 14:30	0.21	0.21	0.091	14.5	286	9.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/8/2009 14:45	0.209	0.209	0.090	14.6	284	9.9	8.5		
10/8/2009 15:00	0.211	0.211	0.092	14.6	284	9.9	8.5		15:00
10/8/2009 15:15	0.213	0.213	0.094	14.6	284	9.8	8.5		
10/8/2009 15:30	0.212	0.212	0.093	14.6	284	9.8	8.5		
10/8/2009 15:45	0.212	0.212	0.093	14.6	282	9.8	8.5		
10/8/2009 16:00	0.21	0.21	0.091	14.6	282	9.8	8.5		
10/8/2009 16:15	0.212	0.212	0.093	14.6	282	9.8	8.5		
10/8/2009 16:30	0.212	0.212	0.093	14.6	282	9.8	8.5		
10/8/2009 16:45	0.21	0.21	0.091	14.6	282	9.8	8.5		
10/8/2009 17:00	0.209	0.209	0.090	14.5	282	9.8	8.5		
10/8/2009 17:15	0.212	0.212	0.093	14.5	268	9.8	8.5		
10/8/2009 17:30	0.213	0.213	0.094	14.5	272	9.7	8.5		
10/8/2009 17:45	0.213	0.213	0.094	14.5	276	9.7	8.5		
10/8/2009 18:00	0.21	0.21	0.091	14.5	272	9.7	8.5		
10/8/2009 18:15	0.212	0.212	0.093	14.5	274	9.7	8.5		
10/8/2009 18:30	0.21	0.21	0.091	14.4	276	9.7	8.5		
10/8/2009 18:45	0.21	0.21	0.091	14.4	274	9.7	8.5		
10/8/2009 19:00	0.211	0.211	0.092	14.4	270	9.7	8.5		
10/8/2009 19:15	0.211	0.211	0.092	14.4	274	9.7	8.5		
10/8/2009 19:30	0.211	0.211	0.092	14.4	276	9.8	8.5		
10/8/2009 19:45	0.212	0.212	0.093	14.4	272	9.7	8.5		
10/8/2009 20:00	0.212	0.212	0.093	14.4	272	9.7	8.5		
10/8/2009 20:15	0.21	0.21	0.091	14.4	282	9.7	8.5		
10/8/2009 20:30	0.212	0.212	0.093	14.4	276	9.7	8.5		
10/8/2009 20:45	0.212	0.212	0.093	14.5	278	9.7	8.5		
10/8/2009 21:00	0.21	0.21	0.091	14.5	274	9.7	8.5		
10/8/2009 21:15	0.209	0.209	0.090	14.5	274	9.7	8.5		
10/8/2009 21:30	0.207	0.207	0.088	14.5	268	9.7	8.5		
10/8/2009 21:45	0.211	0.211	0.092	14.5	272	9.7	8.5		
10/8/2009 22:00	0.209	0.209	0.090	14.6	262	9.7	8.5		
10/8/2009 22:15	0.206	0.206	0.087	14.6	266	9.7	8.5		
10/8/2009 22:30	0.205	0.205	0.086	14.6	276	9.7	8.5		
10/8/2009 22:45	0.209	0.209	0.090	14.6	280	9.7	8.5		
10/8/2009 23:00	0.211	0.211	0.092	14.6	280	9.7	8.4		
10/8/2009 23:15	0.207	0.207	0.088	14.6	274	9.7	8.4		
10/8/2009 23:30	0.212	0.212	0.093	14.6	282	9.6	8.4		
10/8/2009 23:45	0.208	0.208	0.089	14.6	276	9.6	8.4		
10/9/2009 0:00	0.212	0.212	0.093	14.7	280	9.6	8.4		
10/9/2009 0:15	0.21	0.21	0.091	14.7	272	9.7	8.4		
10/9/2009 0:30	0.209	0.209	0.090	14.7	264	9.6	8.5		
10/9/2009 0:45	0.208	0.208	0.089	14.7	268	9.6	8.4		
10/9/2009 1:00	0.208	0.208	0.089	14.7	272	9.6	8.4		
10/9/2009 1:15	0.211	0.211	0.092	14.8	266	9.6	8.4		
10/9/2009 1:30	0.211	0.211	0.092	14.8	268	9.6	8.5		
10/9/2009 1:45	0.207	0.207	0.088	14.8	282	9.6	8.5		
10/9/2009 2:00	0.212	0.212	0.093	14.9	268	9.6	8.5		
10/9/2009 2:15	0.212	0.212	0.093	14.9	272	9.6	8.5		
10/9/2009 2:30	0.21	0.21	0.091	15	266	9.5	8.5		
10/9/2009 2:45	0.211	0.211	0.092	15	266	9.5	8.5		
10/9/2009 3:00	0.212	0.212	0.093	15	266	9.5	8.5		
10/9/2009 3:15	0.211	0.211	0.092	15.1	260	9.5	8.5		
10/9/2009 3:30	0.212	0.212	0.093	15.1	268	9.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/9/2009 3:45	0.21	0.21	0.091	15.1	280	9.5	8.5		
10/9/2009 4:00	0.207	0.207	0.088	15.1	284	9.5	8.5		
10/9/2009 4:15	0.208	0.208	0.089	15.2	266	9.5	8.5		
10/9/2009 4:30	0.207	0.207	0.088	15.2	266	9.5	8.5		
10/9/2009 4:45	0.206	0.206	0.087	15.3	266	9.5	8.5		
10/9/2009 5:00	0.209	0.209	0.090	15.3	264	9.4	8.5		
10/9/2009 5:15	0.207	0.207	0.088	15.3	262	9.4	8.5		
10/9/2009 5:30	0.208	0.208	0.089	15.4	262	9.4	8.5		
10/9/2009 5:45	0.21	0.21	0.091	15.4	274	9.4	8.5		
10/9/2009 6:00	0.204	0.204	0.085	15.5	274	9.4	8.5		
10/9/2009 6:15	0.209	0.209	0.090	15.5	268	9.4	8.5		
10/9/2009 6:30	0.207	0.207	0.088	15.5	258	9.4	8.5		
10/9/2009 6:45	0.209	0.209	0.090	15.6	270	9.4	8.5		
10/9/2009 7:00	0.207	0.207	0.088	15.6	262	9.4	8.5		
10/9/2009 7:15	0.205	0.205	0.086	15.6	266	9.4	8.5		
10/9/2009 7:30	0.206	0.206	0.087	15.7	270	9.4	8.5		
10/9/2009 7:45	0.211	0.211	0.092	15.7	280	9.4	8.5		
10/9/2009 8:00	0.212	0.212	0.093	15.7	268	9.4	8.5		
10/9/2009 8:15	0.21	0.21	0.091	15.8	270	9.4	8.5		
10/9/2009 8:30	0.204	0.204	0.085	15.8	266	9.4	8.5		
10/9/2009 8:45	0.211	0.211	0.092	15.8	268	9.3	8.5		
10/9/2009 9:00	0.207	0.207	0.088	15.9	268	9.4	8.5		
10/9/2009 9:15	0.207	0.207	0.088	15.9	264	9.4	8.5		
10/9/2009 9:30	0.207	0.207	0.088	16	264	9.4	8.5		
10/9/2009 9:45	0.207	0.207	0.088	16.1	258	9.4	8.5		
10/9/2009 10:00	0.205	0.205	0.086	16.1	260	9.3	8.5		
10/9/2009 10:15	0.205	0.205	0.086	16.2	260	9.4	8.5		
10/9/2009 10:30	0.208	0.208	0.089	16.2	260	9.3	8.5		
10/9/2009 10:45	0.21	0.21	0.091	16.3	262	9.3	8.5		
10/9/2009 11:00	0.207	0.207	0.088	16.4	286	9.3	8.5		
10/9/2009 11:15	0.208	0.208	0.089	16.4	262	9.3	8.5		
10/9/2009 11:30	0.203	0.203	0.084	16.4	256	9.3	8.5		
10/9/2009 11:45	0.208	0.208	0.089	16.4	256	9.3	8.5		
10/9/2009 12:00	0.206	0.206	0.087	16.4	260	9.3	8.5		
10/9/2009 12:15	0.205	0.205	0.086	16.4	258	9.2	8.5		
10/9/2009 12:30	0.216	0.216	0.098	16.5	258	9.2	8.5		
10/9/2009 12:45	0.214	0.214	0.095	16.6	254	9.2	8.5		
10/9/2009 13:00	0.214	0.214	0.095	16.7	252	9.2	8.5		
10/9/2009 13:15	0.217	0.217	0.099	16.8	250	9.2	8.5		
10/9/2009 13:30	0.216	0.216	0.098	16.9	248	9.1	8.5		
10/9/2009 13:45	0.213	0.213	0.094	16.9	246	9.1	8.5		
10/9/2009 14:00	0.217	0.217	0.099	17	242	9.1	8.5		
10/9/2009 14:15	0.22	0.22	0.102	17.1	238	9.1	8.5		
10/9/2009 14:30	0.221	0.221	0.104	17.2	236	9.1	8.5		
10/9/2009 14:45	0.224	0.224	0.107	17.2	234	9	8.5		
10/9/2009 15:00	0.222	0.222	0.105	17.2	226	9	8.5		15:00
10/9/2009 15:15	0.231	0.231	0.116	17.3	228	9	8.5		
10/9/2009 15:30	0.229	0.229	0.114	17.3	228	9	8.5		
10/9/2009 15:45	0.228	0.228	0.112	17.3	224	9	8.5		
10/9/2009 16:00	0.231	0.231	0.116	17.3	222	9	8.5		
10/9/2009 16:15	0.233	0.233	0.119	17.4	230	9	8.5		
10/9/2009 16:30	0.246	0.246	0.139	17.3	246	8.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/9/2009 16:45	0.245	0.245	0.137	17.3	228	9	8.5		
10/9/2009 17:00	0.248	0.248	0.142	17.3	242	9	8.5		
10/9/2009 17:15	0.244	0.244	0.135	17.2	236	9	8.5		
10/9/2009 17:30	0.24	0.24	0.129	17.3	238	9	8.5		
10/9/2009 17:45	0.269	0.269	0.181	17.5	238	8.9	8.5		
10/9/2009 18:00	0.318	0.318	0.320	17.8	220	8.8	8.4		18:01
10/9/2009 18:15	0.356	0.356	0.498	17.9	184	8.8	8.3		18:16
10/9/2009 18:30	0.465	0.465	1.768	17.7	218	8.9	8.3		18:31
10/9/2009 18:45	0.608	0.608	9.324	17.2	248	9.1	8.3		18:46
10/9/2009 19:00	0.586	0.586	7.219	17.2	226	9.2	8.3		19:01
10/9/2009 19:15	0.552	0.552	4.862	17.2	208	9.1	8.3		19:16
10/9/2009 19:30	0.54	0.54	4.229	17.1	198	9.1	8.4		19:31
10/9/2009 19:45	0.5	0.5	2.656	17	192	9.2	8.4		19:46
10/9/2009 20:00	0.485	0.485	2.231	17	188	9.2	8.3		20:01
10/9/2009 20:15	0.489	0.489	2.337	16.9	190	9.2	8.3		20:16
10/9/2009 20:30	0.471	0.471	1.896	16.8	192	9.2	8.3		20:31
10/9/2009 20:45	0.453	0.453	1.538	16.8	196	9.2	8.3		20:46
10/9/2009 21:00	0.454	0.454	1.556	16.7	200	9.2	8.3		
10/9/2009 21:15	0.435	0.435	1.247	16.6	202	9.2	8.3		
10/9/2009 21:30	0.437	0.437	1.277	16.6	204	9.2	8.3		
10/9/2009 21:45	0.433	0.433	1.219	16.5	206	9.2	8.3		
10/9/2009 22:00	0.431	0.431	1.191	16.5	208	9.2	8.3		
10/9/2009 22:15	0.427	0.427	1.136	16.4	210	9.2	8.3		
10/9/2009 22:30	0.416	0.416	1.000	16.4	212	9.2	8.3		
10/9/2009 22:45	0.415	0.415	0.988	16.4	212	9.2	8.3		
10/9/2009 23:00	0.416	0.416	1.000	16.3	214	9.2	8.3		
10/9/2009 23:15	0.401	0.401	0.840	16.3	214	9.3	8.3		
10/9/2009 23:30	0.398	0.398	0.811	16.3	216	9.3	8.3		
10/9/2009 23:45	0.392	0.392	0.756	16.2	216	9.3	8.3		
10/10/2009 0:00	0.388	0.388	0.722	16.2	216	9.3	8.3		
10/10/2009 0:15	0.39	0.39	0.739	16.2	216	9.3	8.3		
10/10/2009 0:30	0.39	0.39	0.739	16.1	216	9.3	8.3		
10/10/2009 0:45	0.376	0.376	0.628	16.1	214	9.3	8.3		
10/10/2009 1:00	0.384	0.384	0.689	16.1	218	9.3	8.3		
10/10/2009 1:15	0.381	0.381	0.666	16.1	216	9.3	8.3		
10/10/2009 1:30	0.375	0.375	0.621	16.1	216	9.3	8.3		
10/10/2009 1:45	0.381	0.381	0.666	16.1	216	9.2	8.3		
10/10/2009 2:00	0.372	0.372	0.600	16	216	9.3	8.3		
10/10/2009 2:15	0.367	0.367	0.566	16	216	9.3	8.3		
10/10/2009 2:30	0.37	0.37	0.586	16	216	9.4	8.3		
10/10/2009 2:45	0.37	0.37	0.586	16	216	9.3	8.3		
10/10/2009 3:00	0.366	0.366	0.559	16	216	9.3	8.3		
10/10/2009 3:15	0.362	0.362	0.534	16	216	9.3	8.3		
10/10/2009 3:30	0.361	0.361	0.528	16	216	9.4	8.3		
10/10/2009 3:45	0.354	0.354	0.486	16	216	9.4	8.3		
10/10/2009 4:00	0.353	0.353	0.481	15.9	216	9.3	8.3		
10/10/2009 4:15	0.355	0.355	0.492	15.9	214	9.3	8.3		
10/10/2009 4:30	0.349	0.349	0.459	15.9	214	9.3	8.3		
10/10/2009 4:45	0.356	0.356	0.498	15.9	214	9.3	8.3		
10/10/2009 5:00	0.357	0.357	0.504	15.9	214	9.4	8.3		
10/10/2009 5:15	0.358	0.358	0.509	15.8	212	9.4	8.3		
10/10/2009 5:30	0.358	0.358	0.509	15.8	212	9.4	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/10/2009 5:45	0.358	0.358	0.509	15.8	212	9.4	8.3		
10/10/2009 6:00	0.368	0.368	0.572	15.8	212	9.4	8.3		
10/10/2009 6:15	0.361	0.361	0.528	15.8	210	9.4	8.3		
10/10/2009 6:30	0.362	0.362	0.534	15.7	210	9.4	8.3		
10/10/2009 6:45	0.368	0.368	0.572	15.7	212	9.4	8.3		
10/10/2009 7:00	0.368	0.368	0.572	15.6	212	9.4	8.3		
10/10/2009 7:15	0.362	0.362	0.534	15.6	212	9.5	8.3		
10/10/2009 7:30	0.368	0.368	0.572	15.5	212	9.5	8.3		
10/10/2009 7:45	0.372	0.372	0.600	15.5	212	9.5	8.3		
10/10/2009 8:00	0.368	0.368	0.572	15.4	218	9.5	8.3		
10/10/2009 8:15	0.362	0.362	0.534	15.4	218	9.5	8.3		
10/10/2009 8:30	0.366	0.366	0.559	15.3	218	9.5	8.3		
10/10/2009 8:45	0.364	0.364	0.546	15.3	218	9.6	8.3		
10/10/2009 9:00	0.356	0.356	0.498	15.3	218	9.6	8.3		
10/10/2009 9:15	0.364	0.364	0.546	15.2	216	9.6	8.3		
10/10/2009 9:30	0.352	0.352	0.475	15.2	216	9.6	8.3		
10/10/2009 9:45	0.354	0.354	0.486	15.2	218	9.6	8.3		
10/10/2009 10:00	0.348	0.348	0.454	15.2	214	9.6	8.3		
10/10/2009 10:15	0.352	0.352	0.475	15.1	216	9.6	8.3		
10/10/2009 10:30	0.353	0.353	0.481	15.1	216	9.6	8.3		
10/10/2009 10:45	0.35	0.35	0.464	15.1	214	9.6	8.3		
10/10/2009 11:00	0.349	0.349	0.459	15.1	216	9.6	8.3		
10/10/2009 11:15	0.342	0.342	0.423	15.1	214	9.6	8.3		
10/10/2009 11:30	0.342	0.342	0.423	15.1	216	9.6	8.3		
10/10/2009 11:45	0.348	0.348	0.454	15.2	216	9.6	8.3		
10/10/2009 12:00	0.342	0.342	0.423	15.2	214	9.7	8.3		
10/10/2009 12:15	0.341	0.341	0.418	15.2	214	9.6	8.3		
10/10/2009 12:30	0.346	0.346	0.443	15.2	214	9.6	8.3		
10/10/2009 12:45	0.342	0.342	0.423	15.2	216	9.5	8.3		
10/10/2009 13:00	0.339	0.339	0.408	15.2	216	9.6	8.3		
10/10/2009 13:15	0.341	0.341	0.418	15.1	216	9.6	8.3		
10/10/2009 13:30	0.337	0.337	0.399	15.1	216	9.6	8.3		
10/10/2009 13:45	0.34	0.34	0.413	15.1	216	9.6	8.3		
10/10/2009 14:00	0.331	0.331	0.372	15.1	218	9.6	8.3		
10/10/2009 14:15	0.335	0.335	0.390	15	218	9.6	8.3		
10/10/2009 14:30	0.333	0.333	0.381	15	218	9.6	8.3		
10/10/2009 14:45	0.333	0.333	0.381	15	216	9.6	8.3		
10/10/2009 15:00	0.329	0.329	0.364	15	216	9.7	8.3		15:00
10/10/2009 15:15	0.335	0.335	0.390	14.9	216	9.7	8.3		
10/10/2009 15:30	0.328	0.328	0.359	14.9	218	9.6	8.3		
10/10/2009 15:45	0.327	0.327	0.355	14.9	216	9.7	8.3		
10/10/2009 16:00	0.33	0.33	0.368	14.9	216	9.6	8.3		
10/10/2009 16:15	0.333	0.333	0.381	14.9	216	9.7	8.3		
10/10/2009 16:30	0.327	0.327	0.355	14.9	216	9.6	8.3		
10/10/2009 16:45	0.333	0.333	0.381	14.8	216	9.3	8.3		
10/10/2009 17:00	0.326	0.326	0.351	14.8	216	9.7	8.3		
10/10/2009 17:15	0.325	0.325	0.347	14.8	216	9.7	8.3		
10/10/2009 17:30	0.329	0.329	0.364	14.8	218	9.3	8.3		
10/10/2009 17:45	0.328	0.328	0.359	14.8	218	9.7	8.3		
10/10/2009 18:00	0.338	0.338	0.404	14.7	218	9.7	8.3		
10/10/2009 18:15	0.334	0.334	0.385	14.7	218	9.7	8.3		
10/10/2009 18:30	0.333	0.333	0.381	14.7	218	9.7	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/10/2009 18:45	0.331	0.331	0.372	14.7	218	9.7	8.3		
10/10/2009 19:00	0.329	0.329	0.364	14.7	218	9.7	8.3		
10/10/2009 19:15	0.326	0.326	0.351	14.6	218	9.7	8.3		
10/10/2009 19:30	0.323	0.323	0.339	14.6	218	9.8	8.3		
10/10/2009 19:45	0.33	0.33	0.368	14.6	218	9.8	8.3		
10/10/2009 20:00	0.331	0.331	0.372	14.6	218	9.8	8.3		
10/10/2009 20:15	0.328	0.328	0.359	14.6	218	9.8	8.3		
10/10/2009 20:30	0.328	0.328	0.359	14.5	218	9.8	8.3		
10/10/2009 20:45	0.328	0.328	0.359	14.5	218	9.7	8.3		
10/10/2009 21:00	0.324	0.324	0.343	14.5	218	9.1	8.3		
10/10/2009 21:15	0.321	0.321	0.331	14.5	218	9.8	8.3		
10/10/2009 21:30	0.326	0.326	0.351	14.4	218	9.8	8.3		
10/10/2009 21:45	0.327	0.327	0.355	14.4	218	9.7	8.3		
10/10/2009 22:00	0.324	0.324	0.343	14.4	218	9.8	8.3		
10/10/2009 22:15	0.324	0.324	0.343	14.4	218	9.9	8.3		
10/10/2009 22:30	0.321	0.321	0.331	14.3	218	9.9	8.3		
10/10/2009 22:45	0.325	0.325	0.347	14.3	218	9.8	8.3		
10/10/2009 23:00	0.321	0.321	0.331	14.3	218	9.9	8.3		
10/10/2009 23:15	0.326	0.326	0.351	14.2	220	9.9	8.3		
10/10/2009 23:30	0.325	0.325	0.347	14.2	218	9.9	8.3		
10/10/2009 23:45	0.319	0.319	0.324	14.2	220	9.9	8.3		
10/11/2009 0:00	0.316	0.316	0.313	14.1	220	9.9	8.3		
10/11/2009 0:15	0.316	0.316	0.313	14.1	220	9.9	8.3		
10/11/2009 0:30	0.315	0.315	0.309	14.1	220	9.9	8.3		
10/11/2009 0:45	0.315	0.315	0.309	14	220	9.9	8.3		
10/11/2009 1:00	0.318	0.318	0.320	14	220	9.9	8.3		
10/11/2009 1:15	0.32	0.32	0.327	13.9	220	9.9	8.3		
10/11/2009 1:30	0.316	0.316	0.313	13.9	220	9.9	8.3		
10/11/2009 1:45	0.314	0.314	0.305	13.8	222	10	8.3		
10/11/2009 2:00	0.319	0.319	0.324	13.8	222	10	8.3		
10/11/2009 2:15	0.311	0.311	0.295	13.7	222	10	8.3		
10/11/2009 2:30	0.316	0.316	0.313	13.7	222	10	8.3		
10/11/2009 2:45	0.313	0.313	0.302	13.6	220	10	8.3		
10/11/2009 3:00	0.306	0.306	0.278	13.6	220	10	8.3		
10/11/2009 3:15	0.306	0.306	0.278	13.6	222	10	8.3		
10/11/2009 3:30	0.314	0.314	0.305	13.5	222	10	8.3		
10/11/2009 3:45	0.304	0.304	0.272	13.5	222	10.1	8.3		
10/11/2009 4:00	0.306	0.306	0.278	13.5	222	10	8.3		
10/11/2009 4:15	0.323	0.323	0.339	13.4	222	10.1	8.3		
10/11/2009 4:30	0.307	0.307	0.282	13.4	222	10.1	8.3		
10/11/2009 4:45	0.303	0.303	0.269	13.4	222	10.1	8.3		
10/11/2009 5:00	0.307	0.307	0.282	13.4	222	10.1	8.3		
10/11/2009 5:15	0.309	0.309	0.288	13.4	222	10.1	8.3		
10/11/2009 5:30	0.309	0.309	0.288	13.3	222	10.1	8.3		
10/11/2009 5:45	0.308	0.308	0.285	13.3	222	10.1	8.3		
10/11/2009 6:00	0.309	0.309	0.288	13.3	222	10.1	8.3		
10/11/2009 6:15	0.306	0.306	0.278	13.3	222	9.9	8.3		
10/11/2009 6:30	0.309	0.309	0.288	13.3	222	10.1	8.3		
10/11/2009 6:45	0.307	0.307	0.282	13.3	222	10.1	8.3		
10/11/2009 7:00	0.307	0.307	0.282	13.3	222	10.1	8.3		
10/11/2009 7:15	0.307	0.307	0.282	13.3	222	10.1	8.3		
10/11/2009 7:30	0.308	0.308	0.285	13.3	222	10.1	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled	
10/11/2009 7:45	0.31	0.31	0.292	13.3	220	10.1	8.3			
10/11/2009 8:00	0.307	0.307	0.282	13.3	220	10.2	8.3			
10/11/2009 8:15	0.307	0.307	0.282	13.3	220	10.2	8.3			
10/11/2009 8:30	0.306	0.306	0.278	13.4	222	10.1	8.3			
10/11/2009 8:45	0.311	0.311	0.295	13.4	220	10.2	8.3			
10/11/2009 9:00	0.306	0.306	0.278	13.4	220	10.1	8.3			
10/11/2009 9:15	0.308	0.308	0.285	13.5	220	10.1	8.3			
10/11/2009 9:30	0.303	0.303	0.269	13.5	220	10.1	8.3			
10/11/2009 9:45	0.308	0.308	0.285	13.6	220	10.1	8.3			
10/11/2009 10:00	0.31	0.31	0.292	13.6	220	10.1	8.3			
10/11/2009 10:15	0.303	0.303	0.269	13.6	220	10.1	8.3			
10/11/2009 10:30	0.309	0.309	0.288	13.7	218	10.1	8.3			
10/11/2009 10:45	0.31	0.31	0.292	13.7	218	10.1	8.3			
10/11/2009 11:00	0.305	0.305	0.275	13.8	216	10	8.3			
10/11/2009 11:15	0.308	0.308	0.285	13.8	218	10	8.3			
10/11/2009 11:30	0.301	0.301	0.263	13.9	216	10	8.3			
10/11/2009 11:45	0.296	0.296	0.248	13.9	218	10.1	8.3			
10/11/2009 12:00	0.3005	0.3005	0.261	13.9	218	10	8.3			
10/11/2009 12:15	**0.335**	**0.335**	**0.390**		**225**			* (15)		
10/11/2009 12:30	**0.335**	**0.335**	**0.390**		**229**			* (16)		
10/11/2009 12:45	0.3196	0.3196	0.326	14	232	10	8.3			
10/11/2009 13:00	0.3372	0.3372	0.400	14	240	10	8.3			
10/11/2009 13:15	0.3337	0.3337	0.384	14.1	240	10	8.3			13:11
10/11/2009 13:30	0.333	0.333	0.381	14.2	238	10.1	8.4			
10/11/2009 13:45	0.334	0.334	0.385	14.2	238	10.1	8.4			
10/11/2009 14:00	0.336	0.336	0.394	14.3	254	10.1	8.4			
10/11/2009 14:15	0.33	0.33	0.368	14.3	238	10	8.4			
10/11/2009 14:30	0.326	0.326	0.351	14.3	236	10	8.4			
10/11/2009 14:45	0.326	0.326	0.351	14.4	234	10	8.4			
10/11/2009 15:00	0.326	0.326	0.351	14.4	234	10	8.4			
10/11/2009 15:15	0.322	0.322	0.335	14.4	232	10	8.4			
10/11/2009 15:30	0.33	0.33	0.368	14.4	232	10	8.4			
10/11/2009 15:45	0.333	0.333	0.381	14.5	232	10	8.4			
10/11/2009 16:00	0.322	0.322	0.335	14.5	232	9.9	8.4			
10/11/2009 16:15	0.328	0.328	0.359	14.4	232	9.9	8.4			
10/11/2009 16:30	0.312	0.312	0.298	14.4	232	9.9	8.4			
10/11/2009 16:45	0.319	0.319	0.324	14.4	232	9.9	8.3			
10/11/2009 17:00	0.315	0.315	0.309	14.4	232	9.9	8.3			
10/11/2009 17:15	0.321	0.321	0.331	14.4	232	9.9	8.3			
10/11/2009 17:30	0.313	0.313	0.302	14.4	232	9.9	8.3			
10/11/2009 17:45	0.304	0.304	0.272	14.4	232	9.9	8.3			
10/11/2009 18:00	0.319	0.319	0.324	14.3	232	9.9	8.3			
10/11/2009 18:15	0.313	0.313	0.302	14.3	232	9.9	8.3			
10/11/2009 18:30	0.329	0.329	0.364	14.3	232	9.9	8.3			
10/11/2009 18:45	0.327	0.327	0.355	14.2	232	9.9	8.3			
10/11/2009 19:00	0.329	0.329	0.364	14.2	234	9.9	8.3			
10/11/2009 19:15	0.302	0.302	0.266	14.1	232	9.9	8.3			
10/11/2009 19:30	0.289	0.289	0.228	14.1	232	9.9	8.3			
10/11/2009 19:45	0.283	0.283	0.213	14	232	10	8.3			
10/11/2009 20:00	0.281	0.281	0.208	14	232	10	8.3			
10/11/2009 20:15	0.283	0.283	0.213	14	232	10	8.3			
10/11/2009 20:30	0.281	0.281	0.208	13.9	232	10	8.3			

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/11/2009 20:45	0.281	0.281	0.208	13.9	232	10	8.3		
10/11/2009 21:00	0.28	0.28	0.206	13.9	232	10	8.3		
10/11/2009 21:15	0.281	0.281	0.208	13.9	232	10	8.3		
10/11/2009 21:30	0.287	0.287	0.223	13.9	230	10	8.3		
10/11/2009 21:45	0.282	0.282	0.211	13.8	230	10	8.3		
10/11/2009 22:00	0.287	0.287	0.223	13.8	230	10	8.3		
10/11/2009 22:15	0.284	0.284	0.215	13.8	230	10	8.3		
10/11/2009 22:30	0.286	0.286	0.221	13.8	230	10	8.3		
10/11/2009 22:45	0.281	0.281	0.208	13.7	230	10	8.3		
10/11/2009 23:00	0.281	0.281	0.208	13.7	230	10.1	8.3		
10/11/2009 23:15	0.291	0.291	0.234	13.7	230	10	8.3		
10/11/2009 23:30	0.284	0.284	0.215	13.6	230	10	8.3		
10/11/2009 23:45	0.278	0.278	0.201	13.6	230	10.1	8.3		
10/12/2009 0:00	0.281	0.281	0.208	13.6	230	10.1	8.3		
10/12/2009 0:15	0.28	0.28	0.206	13.6	230	10.1	8.3		
10/12/2009 0:30	0.283	0.283	0.213	13.5	230	10.1	8.3		
10/12/2009 0:45	0.28	0.28	0.206	13.5	230	10.1	8.3		
10/12/2009 1:00	0.279	0.279	0.203	13.5	230	10.1	8.3		
10/12/2009 1:15	0.274	0.274	0.192	13.5	232	10.1	8.3		
10/12/2009 1:30	0.275	0.275	0.194	13.4	238	10.1	8.3		
10/12/2009 1:45	0.277	0.277	0.199	13.4	238	10.1	8.3		
10/12/2009 2:00	0.277	0.277	0.199	13.4	238	10.1	8.3		
10/12/2009 2:15	0.276	0.276	0.196	13.3	236	10.1	8.3		
10/12/2009 2:30	0.273	0.273	0.190	13.3	238	10.1	8.3		
10/12/2009 2:45	0.275	0.275	0.194	13.3	238	10.1	8.3		
10/12/2009 3:00	0.274	0.274	0.192	13.3	238	10.1	8.3		
10/12/2009 3:15	0.277	0.277	0.199	13.3	238	10.1	8.3		
10/12/2009 3:30	0.273	0.273	0.190	13.3	238	10.1	8.3		
10/12/2009 3:45	0.272	0.272	0.187	13.3	238	10.1	8.3		
10/12/2009 4:00	0.271	0.271	0.185	13.2	238	10.1	8.3		
10/12/2009 4:15	0.276	0.276	0.196	13.2	238	10.1	8.3		
10/12/2009 4:30	0.274	0.274	0.192	13.2	238	10.1	8.3		
10/12/2009 4:45	0.274	0.274	0.192	13.2	238	10.1	8.3		
10/12/2009 5:00	0.272	0.272	0.187	13.2	238	10.1	8.3		
10/12/2009 5:15	0.272	0.272	0.187	13.2	238	10.1	8.3		
10/12/2009 5:30	0.269	0.269	0.181	13.2	238	10.2	8.3		
10/12/2009 5:45	0.271	0.271	0.185	13.2	238	10.1	8.3		
10/12/2009 6:00	0.27	0.27	0.183	13.2	238	10.1	8.3		
10/12/2009 6:15	0.271	0.271	0.185	13.2	236	10.1	8.3		
10/12/2009 6:30	0.274	0.274	0.192	13.2	242	10.1	8.3		
10/12/2009 6:45	0.286	0.286	0.221	13.3	240	10.1	8.3		
10/12/2009 7:00	0.286	0.286	0.221	13.3	240	10.1	8.3		
10/12/2009 7:15	0.286	0.286	0.221	13.3	240	10.1	8.3		
10/12/2009 7:30	0.288	0.288	0.226	13.3	238	10.1	8.3		
10/12/2009 7:45	0.284	0.284	0.215	13.3	238	10.1	8.3		
10/12/2009 8:00	0.291	0.291	0.234	13.3	236	10.1	8.3		
10/12/2009 8:15	0.294	0.294	0.242	13.3	234	10.1	8.3		
10/12/2009 8:30	0.298	0.298	0.254	13.4	232	10.1	8.3		
10/12/2009 8:45	0.305	0.305	0.275	13.4	230	10.1	8.3		
10/12/2009 9:00	0.309	0.309	0.288	13.4	228	10.1	8.3		
10/12/2009 9:15	0.32	0.32	0.327	13.5	236	10.1	8.3		
10/12/2009 9:30	0.331	0.331	0.372	13.5	234	10.1	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/12/2009 9:45	0.323	0.323	0.339	13.6	234	10	8.3		
10/12/2009 10:00	0.342	0.342	0.423	13.6	234	10.1	8.3		
10/12/2009 10:15	0.346	0.346	0.443	13.7	236	10	8.3		
10/12/2009 10:30	0.354	0.354	0.486	13.7	236	10.1	8.3		
10/12/2009 10:45	0.359	0.359	0.515	13.8	234	10	8.3		
10/12/2009 11:00	0.338	0.338	0.404	13.8	234	10	8.3		
10/12/2009 11:15	0.33	0.33	0.368	13.9	234	10	8.3		
10/12/2009 11:30	0.333	0.333	0.381	13.9	234	10	8.3		
10/12/2009 11:45	0.332	0.332	0.377	14	232	10	8.3		
10/12/2009 12:00	0.336	0.336	0.394	14.1	232	10	8.3		
10/12/2009 12:15	0.327	0.327	0.355	14.1	232	9.9	8.3		
10/12/2009 12:30	0.326	0.326	0.351	14.2	232	9.9	8.3		
10/12/2009 12:45	0.326	0.326	0.351	14.2	232	9.9	8.3		
10/12/2009 13:00	0.325	0.325	0.347	14.3	230	9.9	8.3		
10/12/2009 13:15	0.319	0.319	0.324	14.3	230	9.9	8.3		13:11
10/12/2009 13:30	0.32	0.32	0.327	14.4	232	9.9	8.3		
10/12/2009 13:45	0.319	0.319	0.324	14.4	232	9.9	8.3		
10/12/2009 14:00	0.322	0.322	0.335	14.5	232	9.9	8.3		
10/12/2009 14:15	0.321	0.321	0.331	14.5	232	9.9	8.3		
10/12/2009 14:30	0.317	0.317	0.316	14.6	232	9.8	8.3		
10/12/2009 14:45	0.317	0.317	0.316	14.6	232	9.8	8.3		
10/12/2009 15:00	0.315	0.315	0.309	14.7	232	9.8	8.3		
10/12/2009 15:15	0.313	0.313	0.302	14.7	232	9.8	8.4		
10/12/2009 15:30	0.31	0.31	0.292	14.8	234	9.8	8.3		
10/12/2009 15:45	0.315	0.315	0.309	14.8	234	9.8	8.4		
10/12/2009 16:00	0.311	0.311	0.295	14.9	234	9.8	8.4		
10/12/2009 16:15	0.309	0.309	0.288	14.9	236	9.8	8.4		
10/12/2009 16:30	0.312	0.312	0.298	14.9	236	9.8	8.4		
10/12/2009 16:45	0.31	0.31	0.292	14.9	236	9.8	8.3		
10/12/2009 17:00	0.313	0.313	0.302	14.9	236	9.7	8.4		
10/12/2009 17:15	0.309	0.309	0.288	14.9	236	9.7	8.4		
10/12/2009 17:30	0.307	0.307	0.282	14.9	238	9.7	8.3		
10/12/2009 17:45	0.309	0.309	0.288	14.9	238	9.7	8.3		
10/12/2009 18:00	0.308	0.308	0.285	14.9	238	9.7	8.3		
10/12/2009 18:15	0.308	0.308	0.285	14.9	240	9.7	8.3		
10/12/2009 18:30	0.307	0.307	0.282	14.9	240	9.7	8.3		
10/12/2009 18:45	0.307	0.307	0.282	14.9	238	9.7	8.3		
10/12/2009 19:00	0.306	0.306	0.278	14.9	240	9.7	8.3		
10/12/2009 19:15	0.315	0.315	0.309	14.9	240	9.7	8.3		
10/12/2009 19:30	0.305	0.305	0.275	14.9	240	9.7	8.3		
10/12/2009 19:45	0.306	0.306	0.278	14.9	240	9.7	8.3		
10/12/2009 20:00	0.304	0.304	0.272	14.9	242	9.7	8.3		
10/12/2009 20:15	0.301	0.301	0.263	14.9	242	9.7	8.3		
10/12/2009 20:30	0.309	0.309	0.288	14.9	242	9.7	8.3		
10/12/2009 20:45	0.31	0.31	0.292	14.9	242	9.7	8.3		
10/12/2009 21:00	0.313	0.313	0.302	14.9	244	9.7	8.3		
10/12/2009 21:15	0.311	0.311	0.295	14.9	244	9.7	8.3		
10/12/2009 21:30	0.312	0.312	0.298	14.9	244	9.7	8.3		
10/12/2009 21:45	0.313	0.313	0.302	14.9	244	9.7	8.3		
10/12/2009 22:00	0.312	0.312	0.298	14.9	244	9.7	8.3		
10/12/2009 22:15	0.304	0.304	0.272	14.9	244	9.7	8.3		
10/12/2009 22:30	0.307	0.307	0.282	14.9	246	9.7	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/12/2009 22:45	0.307	0.307	0.282	14.9	246	9.7	8.3		
10/12/2009 23:00	0.307	0.307	0.282	14.9	244	9.7	8.3		
10/12/2009 23:15	0.31	0.31	0.292	14.9	244	9.7	8.3		
10/12/2009 23:30	0.304	0.304	0.272	14.9	244	9.7	8.3		
10/12/2009 23:45	0.303	0.303	0.269	14.9	246	9.7	8.3		
10/13/2009 0:00	0.299	0.299	0.257	14.9	246	9.7	8.3		
10/13/2009 0:15	0.297	0.297	0.251	14.9	244	9.7	8.3		
10/13/2009 0:30	0.297	0.297	0.251	14.9	246	9.7	8.3		
10/13/2009 0:45	0.295	0.295	0.245	14.9	246	9.7	8.3		
10/13/2009 1:00	0.293	0.293	0.239	14.9	246	9.7	8.3		
10/13/2009 1:15	0.293	0.293	0.239	14.9	246	9.7	8.3		
10/13/2009 1:30	0.293	0.293	0.239	14.9	242	9.7	8.3		
10/13/2009 1:45	0.296	0.296	0.248	14.9	240	9.7	8.3		
10/13/2009 2:00	0.293	0.293	0.239	14.9	240	9.7	8.3		
10/13/2009 2:15	0.291	0.291	0.234	14.9	246	9.7	8.3		
10/13/2009 2:30	0.293	0.293	0.239	14.9	244	9.7	8.3		
10/13/2009 2:45	0.291	0.291	0.234	14.9	242	9.7	8.3		
10/13/2009 3:00	0.296	0.296	0.248	14.9	238	9.7	8.3		
10/13/2009 3:15	0.289	0.289	0.228	14.9	234	9.7	8.3		
10/13/2009 3:30	0.291	0.291	0.234	14.9	232	9.7	8.3		
10/13/2009 3:45	0.29	0.29	0.231	14.9	236	9.7	8.3		
10/13/2009 4:00	0.289	0.289	0.228	14.9	228	9.7	8.3		
10/13/2009 4:15	0.291	0.291	0.234	14.9	232	9.7	8.3		
10/13/2009 4:30	0.291	0.291	0.234	14.9	234	9.7	8.3		
10/13/2009 4:45	0.291	0.291	0.234	14.9	224	9.7	8.3		
10/13/2009 5:00	0.292	0.292	0.236	14.8	232	9.8	8.3		
10/13/2009 5:15	0.291	0.291	0.234	14.8	230	9.7	8.3		
10/13/2009 5:30	0.287	0.287	0.223	14.8	218	9.7	8.3		
10/13/2009 5:45	0.291	0.291	0.234	14.8	226	9.7	8.3		
10/13/2009 6:00	0.283	0.283	0.213	14.8	226	9.7	8.3		
10/13/2009 6:15	0.289	0.289	0.228	14.8	228	9.8	8.3		
10/13/2009 6:30	0.285	0.285	0.218	14.8	228	9.7	8.3		
10/13/2009 6:45	0.288	0.288	0.226	14.8	224	9.7	8.3		
10/13/2009 7:00	0.287	0.287	0.223	14.8	218	9.7	8.3		
10/13/2009 7:15	0.287	0.287	0.223	14.8	224	9.8	8.3		
10/13/2009 7:30	0.287	0.287	0.223	14.8	214	9.8	8.3		
10/13/2009 7:45	0.286	0.286	0.221	14.8	222	9.8	8.3		
10/13/2009 8:00	0.284	0.284	0.215	14.8	218	9.8	8.3		
10/13/2009 8:15	0.287	0.287	0.223	14.9	196	9.8	8.3		
10/13/2009 8:30	0.286	0.286	0.221	14.9	216	9.8	8.3		
10/13/2009 8:45	0.286	0.286	0.221	14.9	216	9.8	8.3		
10/13/2009 9:00	0.291	0.291	0.234	15	220	9.8	8.4		
10/13/2009 9:15	0.284	0.284	0.215	15	204	9.8	8.4		
10/13/2009 9:30	0.284	0.284	0.215	15.1	202	9.8	8.4		
10/13/2009 9:45	0.284	0.284	0.215	15.1	194	9.7	8.4		
10/13/2009 10:00	0.285	0.285	0.218	15.1	210	9.7	8.4		
10/13/2009 10:15	0.281	0.281	0.208	15.1	214	9.7	8.4		
10/13/2009 10:30	0.287	0.287	0.223	15.2	196	9.7	8.4		
10/13/2009 10:45	0.286	0.286	0.221	15.2	204	9.7	8.4		
10/13/2009 11:00	0.289	0.289	0.228	15.2	206	9.7	8.4		
10/13/2009 11:15	0.287	0.287	0.223	15.3	204	9.7	8.4		
10/13/2009 11:30	0.287	0.287	0.223	15.4	202	9.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/13/2009 11:45	0.284	0.284	0.215	15.5	194	9.7	8.4		
10/13/2009 12:00	0.285	0.285	0.218	15.5	200	9.7	8.4		
10/13/2009 12:15	0.284	0.284	0.215	15.6	196	9.7	8.4		
10/13/2009 12:30	0.286	0.286	0.221	15.7	196	9.7	8.4		
10/13/2009 12:45	0.287	0.287	0.223	15.7	190	9.6	8.4		
10/13/2009 13:00	0.289	0.289	0.228	15.7	184	9.6	8.4		
10/13/2009 13:15	0.29	0.29	0.231	15.8	190	9.6	8.4		13:15
10/13/2009 13:30	0.285	0.285	0.218	15.8	186	9.6	8.4		
10/13/2009 13:45	0.285	0.285	0.218	15.9	174	9.6	8.4		
10/13/2009 14:00	0.286	0.286	0.221	16	186	9.5	8.4		
10/13/2009 14:15	0.287	0.287	0.223	16	182	9.5	8.4		
10/13/2009 14:30	0.287	0.287	0.223	16	160	9.5	8.4		
10/13/2009 14:45	0.287	0.287	0.223	16.1	194	9.5	8.4		
10/13/2009 15:00	0.286	0.286	0.221	16.1	160	9.5	8.4		
10/13/2009 15:15	0.285	0.285	0.218	16.1	170	9.5	8.4		
10/13/2009 15:30	0.284	0.284	0.215	16.1	174	9.5	8.4		
10/13/2009 15:45	0.281	0.281	0.208	16	160	9.5	8.4		
10/13/2009 16:00	0.278	0.278	0.201	16	148	9.5	8.4		
10/13/2009 16:15	0.287	0.287	0.223	16	152	9.5	8.4		
10/13/2009 16:30	0.284	0.284	0.215	16	148	9.5	8.4		
10/13/2009 16:45	0.281	0.281	0.208	16	146	9.5	8.4		
10/13/2009 17:00	0.278	0.278	0.201	16	148	9.5	8.4		
10/13/2009 17:15	0.282	0.282	0.211	15.9	150	9.4	8.4		
10/13/2009 17:30	0.277	0.277	0.199	15.9	148	9.4	8.4		
10/13/2009 17:45	0.27	0.27	0.183	15.9	148	9.5	8.3		
10/13/2009 18:00	0.276	0.276	0.196	15.8	148	9.5	8.3		
10/13/2009 18:15	0.274	0.274	0.192	15.8	148	9.5	8.3		
10/13/2009 18:30	0.272	0.272	0.187	15.8	144	9.5	8.3		
10/13/2009 18:45	0.277	0.277	0.199	15.7	142	9.5	8.3		
10/13/2009 19:00	0.271	0.271	0.185	15.7	144	9.5	8.3		
10/13/2009 19:15	0.275	0.275	0.194	15.7	142	9.5	8.3		
10/13/2009 19:30	0.276	0.276	0.196	15.7	154	9.5	8.3		
10/13/2009 19:45	0.275	0.275	0.194	15.6	174	9.5	8.3		
10/13/2009 20:00	0.276	0.276	0.196	15.6	144	9.5	8.3		
10/13/2009 20:15	0.27	0.27	0.183	15.6	140	9.5	8.3		
10/13/2009 20:30	0.276	0.276	0.196	15.6	140	9.5	8.3		
10/13/2009 20:45	0.288	0.288	0.226	15.5	138	9.5	8.3		
10/13/2009 21:00	0.288	0.288	0.226	15.5	136	9.5	8.3		
10/13/2009 21:15	0.289	0.289	0.228	15.5	134	9.5	8.3		
10/13/2009 21:30	0.291	0.291	0.234	15.5	134	9.5	8.3		
10/13/2009 21:45	0.29	0.29	0.231	15.4	132	9.5	8.3		
10/13/2009 22:00	0.293	0.293	0.239	15.4	132	9.6	8.3		
10/13/2009 22:15	0.302	0.302	0.266	15.4	130	9.5	8.3		
10/13/2009 22:30	0.3	0.3	0.260	15.4	130	9.5	8.3		
10/13/2009 22:45	0.305	0.305	0.275	15.4	130	9.6	8.3		
10/13/2009 23:00	0.309	0.309	0.288	15.3	128	9.5	8.3		
10/13/2009 23:15	0.307	0.307	0.282	15.3	128	9.5	8.3		
10/13/2009 23:30	0.307	0.307	0.282	15.3	128	9.6	8.3		
10/13/2009 23:45	0.309	0.309	0.288	15.3	126	9.5	8.3		
10/14/2009 0:00	0.313	0.313	0.302	15.3	126	9.5	8.3		
10/14/2009 0:15	0.311	0.311	0.295	15.2	124	9.5	8.3		
10/14/2009 0:30	0.316	0.316	0.313	15.2	124	9.6	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/14/2009 0:45	0.317	0.317	0.316	15.2	124	9.5	8.3		
10/14/2009 1:00	0.319	0.319	0.324	15.2	122	9.5	8.3		
10/14/2009 1:15	0.316	0.316	0.313	15.2	122	9.5	8.3		
10/14/2009 1:30	0.318	0.318	0.320	15.2	120	9.6	8.3		
10/14/2009 1:45	0.313	0.313	0.302	15.2	120	9.6	8.3		
10/14/2009 2:00	0.317	0.317	0.316	15.1	120	9.6	8.3		
10/14/2009 2:15	0.316	0.316	0.313	15.1	136	9.6	8.3		
10/14/2009 2:30	0.314	0.314	0.305	15.1	136	9.6	8.3		
10/14/2009 2:45	0.317	0.317	0.316	15.1	136	9.6	8.3		
10/14/2009 3:00	0.315	0.315	0.309	15.1	134	9.6	8.3		
10/14/2009 3:15	0.316	0.316	0.313	15.1	132	9.6	8.3		
10/14/2009 3:30	0.317	0.317	0.316	15.1	126	9.6	8.3		
10/14/2009 3:45	0.311	0.311	0.295	15.1	136	9.6	8.3		
10/14/2009 4:00	0.315	0.315	0.309	15.1	134	9.6	8.3		
10/14/2009 4:15	0.314	0.314	0.305	15.1	134	9.6	8.3		
10/14/2009 4:30	0.312	0.312	0.298	15.1	134	9.6	8.3		
10/14/2009 4:45	0.311	0.311	0.295	15.1	134	9.6	8.3		
10/14/2009 5:00	0.314	0.314	0.305	15.1	130	9.6	8.3		
10/14/2009 5:15	0.319	0.319	0.324	15	130	9.6	8.3		
10/14/2009 5:30	0.319	0.319	0.324	15	128	9.6	8.3		
10/14/2009 5:45	0.319	0.319	0.324	15	126	9.6	8.3		
10/14/2009 6:00	0.323	0.323	0.339	15	134	9.6	8.3		
10/14/2009 6:15	0.329	0.329	0.364	15	122	9.6	8.3		
10/14/2009 6:30	0.339	0.339	0.408	15	130	9.6	8.3		
10/14/2009 6:45	0.361	0.361	0.528	15	128	9.6	8.3		
10/14/2009 7:00	0.374	0.374	0.614	15	112	9.6	8.3		7:01
10/14/2009 7:15	0.394	0.394	0.774	15	110	9.5	8.2		7:16
10/14/2009 7:30	0.427	0.427	1.136	15	108	9.6	8.2		7:31
10/14/2009 7:45	0.459	0.459	1.649	15	122	9.6	8.2		7:46
10/14/2009 8:00	0.531	0.531	3.808	15	226	9.6	8.2		8:01
10/14/2009 8:15	0.552	0.552	4.862	14.9	224	9.6	8.3		8:16
10/14/2009 8:30	0.552	0.552	4.862	14.9	222	9.6	8.3		8:31
10/14/2009 8:45	0.551	0.551	4.806	14.9	216	9.6	8.3		8:46
10/14/2009 9:00	0.551	0.551	4.806	15	204	9.7	8.3		9:01
10/14/2009 9:15	0.551	0.551	4.806	15	198	9.6	8.3		9:16
10/14/2009 9:30	0.548	0.548	4.641	15	194	9.6	8.3		9:31
10/14/2009 9:45	0.544	0.544	4.430	15.1	196	9.6	8.3		9:46
10/14/2009 10:00	0.549	0.549	4.695	15.1	194	9.6	8.3		
10/14/2009 10:15	0.561	0.561	5.398	15.1	192	9.6	8.3		
10/14/2009 10:30	0.552	0.552	4.862	15.1	192	9.6	8.3		
10/14/2009 10:45	0.548	0.548	4.641	15.2	192	9.6	8.3		
10/14/2009 11:00	0.557	0.557	5.153	15.2	190	9.6	8.3		
10/14/2009 11:15	0.56	0.56	5.336	15.3	186	9.6	8.3		
10/14/2009 11:30	0.561	0.561	5.398	15.3	184	9.6	8.3		
10/14/2009 11:45	0.561	0.561	5.398	15.4	186	9.6	8.3		
10/14/2009 12:00	0.564	0.564	5.590	15.4	180	9.5	8.3		
10/14/2009 12:15	0.564	0.564	5.590	15.4	180	9.5	8.3		
10/14/2009 12:30	0.562	0.562	5.461	15.5	178	9.6	8.3		
10/14/2009 12:45	0.558	0.558	5.213	15.5	182	9.5	8.3		
10/14/2009 13:00	0.559	0.559	5.274	15.5	180	9.5	8.3		
10/14/2009 13:15	0.558	0.558	5.213	15.5	180	9.5	8.3		13:11
10/14/2009 13:30	0.561	0.561	5.398	15.6	180	9.5	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/14/2009 13:45	0.559	0.559	5.274	15.6	178	9.5	8.3		
10/14/2009 14:00	0.561	0.561	5.398	15.6	178	9.5	8.3		
10/14/2009 14:15	0.558	0.558	5.213	15.6	176	9.5	8.3		
10/14/2009 14:30	0.555	0.555	5.034	15.7	176	9.5	8.3		
10/14/2009 14:45	0.559	0.559	5.274	15.7	174	9.5	8.3		
10/14/2009 15:00	0.557	0.557	5.153	15.7	174	9.5	8.3		
10/14/2009 15:15	0.559	0.559	5.274	15.7	174	9.5	8.3		
10/14/2009 15:30	0.559	0.559	5.274	15.7	172	9.5	8.3		
10/14/2009 15:45	0.557	0.557	5.153	15.7	172	9.5	8.2		
10/14/2009 16:00	0.559	0.559	5.274	15.7	172	9.5	8.2		
10/14/2009 16:15	0.553	0.553	4.919	15.7	170	9.5	8.2		
10/14/2009 16:30	0.553	0.553	4.919	15.7	170	9.5	8.2		
10/14/2009 16:45	0.558	0.558	5.213	15.7	170	9.5	8.2		
10/14/2009 17:00	0.551	0.551	4.806	15.6	170	9.5	8.2		
10/14/2009 17:15	0.552	0.552	4.862	15.6	170	9.5	8.2		
10/14/2009 17:30	0.547	0.547	4.587	15.6	168	9.5	8.2		
10/14/2009 17:45	0.552	0.552	4.862	15.6	168	9.5	8.2		
10/14/2009 18:00	0.55	0.55	4.750	15.6	168	9.5	8.2		
10/14/2009 18:15	0.544	0.544	4.430	15.6	166	9.5	8.2		
10/14/2009 18:30	0.542	0.542	4.328	15.6	166	9.5	8.2		
10/14/2009 18:45	0.54	0.54	4.229	15.6	166	9.5	8.2		
10/14/2009 19:00	0.542	0.542	4.328	15.6	166	9.5	8.2		
10/14/2009 19:15	0.548	0.548	4.641	15.6	166	9.5	8.2		
10/14/2009 19:30	0.544	0.544	4.430	15.6	166	9.5	8.2		
10/14/2009 19:45	0.546	0.546	4.534	15.6	166	9.5	8.2		
10/14/2009 20:00	0.541	0.541	4.278	15.6	164	9.5	8.2		
10/14/2009 20:15	0.542	0.542	4.328	15.6	164	9.5	8.2		
10/14/2009 20:30	0.543	0.543	4.379	15.6	162	9.5	8.2		
10/14/2009 20:45	0.547	0.547	4.587	15.6	162	9.5	8.2		
10/14/2009 21:00	0.547	0.547	4.587	15.6	162	9.5	8.2		
10/14/2009 21:15	0.545	0.545	4.482	15.6	162	9.5	8.2		
10/14/2009 21:30	0.548	0.548	4.641	15.6	160	9.5	8.2		
10/14/2009 21:45	0.544	0.544	4.430	15.6	158	9.5	8.2		
10/14/2009 22:00	0.544	0.544	4.430	15.6	156	9.5	8.2		
10/14/2009 22:15	0.539	0.539	4.180	15.6	154	9.5	8.2		
10/14/2009 22:30	0.543	0.543	4.379	15.6	152	9.5	8.2		
10/14/2009 22:45	0.539	0.539	4.180	15.6	150	9.5	8.2		
10/14/2009 23:00	0.542	0.542	4.328	15.6	152	9.5	8.2		
10/14/2009 23:15	0.54	0.54	4.229	15.6	148	9.5	8.2		
10/14/2009 23:30	0.542	0.542	4.328	15.6	148	9.5	8.2		
10/14/2009 23:45	0.541	0.541	4.278	15.6	148	9.5	8.2		
10/15/2009 0:00	0.539	0.539	4.180	15.5	148	9.5	8.2		
10/15/2009 0:15	0.54	0.54	4.229	15.5	150	9.5	8.2		
10/15/2009 0:30	0.541	0.541	4.278	15.5	154	9.5	8.2		
10/15/2009 0:45	0.54	0.54	4.229	15.5	154	9.5	8.2		
10/15/2009 1:00	0.534	0.534	3.944	15.5	154	9.5	8.2		
10/15/2009 1:15	0.538	0.538	4.131	15.5	152	9.5	8.2		
10/15/2009 1:30	0.535	0.535	3.990	15.5	150	9.5	8.2		
10/15/2009 1:45	0.533	0.533	3.898	15.5	150	9.5	8.2		
10/15/2009 2:00	0.533	0.533	3.898	15.5	152	9.5	8.2		
10/15/2009 2:15	0.533	0.533	3.898	15.5	150	9.5	8.2		
10/15/2009 2:30	0.532	0.532	3.853	15.5	154	9.5	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/15/2009 2:45	0.53	0.53	3.764	15.4	154	9.5	8.2		
10/15/2009 3:00	0.53	0.53	3.764	15.4	154	9.5	8.2		
10/15/2009 3:15	0.534	0.534	3.944	15.4	152	9.5	8.2		
10/15/2009 3:30	0.532	0.532	3.853	15.4	152	9.5	8.2		
10/15/2009 3:45	0.535	0.535	3.990	15.4	152	9.5	8.2		
10/15/2009 4:00	0.529	0.529	3.721	15.4	152	9.5	8.2		
10/15/2009 4:15	0.529	0.529	3.721	15.4	152	9.5	8.2		
10/15/2009 4:30	0.529	0.529	3.721	15.3	152	9.5	8.2		
10/15/2009 4:45	0.53	0.53	3.764	15.3	154	9.5	8.2		
10/15/2009 5:00	0.528	0.528	3.678	15.3	152	9.5	8.2		
10/15/2009 5:15	0.527	0.527	3.635	15.3	152	9.5	8.2		
10/15/2009 5:30	0.531	0.531	3.808	15.3	152	9.5	8.2		
10/15/2009 5:45	0.535	0.535	3.990	15.3	150	9.5	8.2		
10/15/2009 6:00	0.539	0.539	4.180	15.3	148	9.5	8.1		
10/15/2009 6:15	0.545	0.545	4.482	15.2	148	9.5	8.1		
10/15/2009 6:30	0.554	0.554	4.976	15.2	148	9.5	8.1		
10/15/2009 6:45	0.565	0.565	5.655	15.2	146	9.5	8.1		
10/15/2009 7:00	0.58	0.58	6.733	15.2	146	9.5	8.1		
10/15/2009 7:15	0.595	0.595	8.016	15.2	146	9.5	8.1		
10/15/2009 7:30	0.619	0.619	10.596	15.1	144	9.5	8.1		
10/15/2009 7:45	0.629	0.629	11.902	15.1	146	9.5	8.1		
10/15/2009 8:00	0.637	0.637	13.063	15.1	130	9.5	8.1		
10/15/2009 8:15	0.643	0.643	14.007	15	140	9.6	8.1		
10/15/2009 8:30	0.67	0.67	19.173	15	142	9.5	8.1		
10/15/2009 8:45	0.696	0.696	25.941	15	140	9.5	8.1		
10/15/2009 9:00	0.715	0.715	32.354	15	144	9.6	8.1		
10/15/2009 9:15	0.738	0.738	42.275	15	146	9.6	8.1		
10/15/2009 9:30	0.749	0.749	48.043	15	150	9.6	8.1		
10/15/2009 9:45	0.741	0.741	43.775	15	148	9.6	8.1		
10/15/2009 10:00	0.742	0.742	44.287	15	150	9.6	8.1		
10/15/2009 10:15	0.744	0.744	45.329	15.1	150	9.6	8.1		
10/15/2009 10:30	0.739	0.739	42.769	15.1	150	9.6	8.1		
10/15/2009 10:45	0.784	0.784	72.173	15.2	152	9.5	8.1		
10/15/2009 11:00	0.743	0.743	44.805	15.2	152	9.5	8.1		
10/15/2009 11:15	0.724	0.724	35.924	15.3	150	9.4	8.1		
10/15/2009 11:30	0.718	0.718	33.503	15.3	150	9.5	8.1		
10/15/2009 11:45	0.714	0.714	31.980	15.3	146	9.4	8.1		
10/15/2009 12:00	0.706	0.706	29.139	15.4	142	9.4	8.1		
10/15/2009 12:15	0.703	0.703	28.140	15.4	140	9.3	8.1		
10/15/2009 12:30	0.701	0.701	27.494	15.5	138	9.3	8.1		
10/15/2009 12:45	0.69	0.69	24.193	15.5	136	9.4	8.1		
10/15/2009 13:00	0.695	0.695	25.641	15.5	134	9.3	8.1		
10/15/2009 13:15	0.684	0.684	22.562	15.6	134	9.3	8.1		13:11
10/15/2009 13:30	0.681	0.681	21.789	15.6	136	9.2	8.1		
10/15/2009 13:45	0.676	0.676	20.558	15.6	136	9.3	8.1		
10/15/2009 14:00	0.667	0.667	18.515	15.6	138	9.2	8.1		
10/15/2009 14:15	0.667	0.667	18.515	15.7	138	9.2	8.1		
10/15/2009 14:30	0.657	0.657	16.483	15.7	138	9.2	8.1		
10/15/2009 14:45	0.661	0.661	17.268	15.7	136	9.2	8.1		
10/15/2009 15:00	0.657	0.657	16.483	15.7	136	9.2	8.1		
10/15/2009 15:15	0.654	0.654	15.918	15.7	136	9.2	8.1		
10/15/2009 15:30	0.649	0.649	15.019	15.7	136	9.2	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/15/2009 15:45	0.642	0.642	13.845	15.7	136	9.2	8.1		
10/15/2009 16:00	0.651	0.651	15.372	15.7	136	9.2	8.1		
10/15/2009 16:15	0.643	0.643	14.007	15.6	138	9.3	8.1		
10/15/2009 16:30	0.647	0.647	14.674	15.6	140	9.4	8.1		
10/15/2009 16:45	0.629	0.629	11.902	15.6	142	9.4	8.1		
10/15/2009 17:00	0.631	0.631	12.182	15.5	142	9.4	8.1		
10/15/2009 17:15	0.63	0.63	12.042	15.5	142	9.4	8.1		
10/15/2009 17:30	0.629	0.629	11.902	15.5	142	9.4	8.1		
10/15/2009 17:45	0.629	0.629	11.902	15.4	140	9.4	8.1		
10/15/2009 18:00	0.618	0.618	10.473	15.4	140	9.4	8.1		
10/15/2009 18:15	0.615	0.615	10.114	15.3	140	9.5	8.1		
10/15/2009 18:30	0.612	0.612	9.768	15.2	142	9.5	8.1		
10/15/2009 18:45	0.599	0.599	8.397	15.2	142	9.5	8.1		
10/15/2009 19:00	0.601	0.601	8.595	15.2	142	9.5	8.1		
10/15/2009 19:15	0.589	0.589	7.475	15.1	142	9.5	8.1		
10/15/2009 19:30	0.582	0.582	6.891	15.1	142	9.5	8.1		
10/15/2009 19:45	0.591	0.591	7.651	15	142	9.5	8.1		
10/15/2009 20:00	0.583	0.583	6.972	15	144	9.5	8.1		
10/15/2009 20:15	0.584	0.584	7.053	14.9	144	9.6	8.1		
10/15/2009 20:30	0.581	0.581	6.811	14.9	144	9.6	8.1		
10/15/2009 20:45	0.569	0.569	5.924	14.9	144	9.6	8.1		
10/15/2009 21:00	0.577	0.577	6.502	14.8	144	9.6	8.1		
10/15/2009 21:15	0.575	0.575	6.352	14.8	144	9.6	8.1		
10/15/2009 21:30	0.572	0.572	6.135	14.7	146	9.6	8.1		
10/15/2009 21:45	0.574	0.574	6.279	14.7	146	9.6	8.1		
10/15/2009 22:00	0.573	0.573	6.206	14.7	146	9.6	8.1		
10/15/2009 22:15	0.565	0.565	5.655	14.6	146	9.6	8.1		
10/15/2009 22:30	0.561	0.561	5.398	14.6	146	9.6	8.1		
10/15/2009 22:45	0.564	0.564	5.590	14.5	146	9.7	8.1		
10/15/2009 23:00	0.562	0.562	5.461	14.5	146	9.7	8.1		
10/15/2009 23:15	0.554	0.554	4.976	14.4	148	9.7	8.1		
10/15/2009 23:30	0.551	0.551	4.806	14.4	148	9.7	8.1		
10/15/2009 23:45	0.548	0.548	4.641	14.3	148	9.7	8.1		
10/16/2009 0:00	0.544	0.544	4.430	14.3	148	9.7	8.1		
10/16/2009 0:15	0.544	0.544	4.430	14.2	148	9.7	8.1		
10/16/2009 0:30	0.54	0.54	4.229	14.2	148	9.8	8.1		
10/16/2009 0:45	0.542	0.542	4.328	14.1	148	9.8	8.1		
10/16/2009 1:00	0.531	0.531	3.808	14.1	150	9.8	8.1		
10/16/2009 1:15	0.541	0.541	4.278	14.1	150	9.8	8.1		
10/16/2009 1:30	0.529	0.529	3.721	14	150	9.8	8.1		
10/16/2009 1:45	0.528	0.528	3.678	14	150	9.8	8.1		
10/16/2009 2:00	0.531	0.531	3.808	13.9	150	9.8	8.1		
10/16/2009 2:15	0.528	0.528	3.678	13.9	152	9.8	8.1		
10/16/2009 2:30	0.529	0.529	3.721	13.8	152	9.8	8.1		
10/16/2009 2:45	0.524	0.524	3.511	13.8	152	9.8	8.1		
10/16/2009 3:00	0.512	0.512	3.053	13.7	152	9.9	8.1		
10/16/2009 3:15	0.513	0.513	3.089	13.7	152	9.9	8.1		
10/16/2009 3:30	0.514	0.514	3.125	13.7	152	9.8	8.1		
10/16/2009 3:45	0.516	0.516	3.199	13.6	152	9.9	8.1		
10/16/2009 4:00	0.507	0.507	2.881	13.6	152	9.9	8.1		
10/16/2009 4:15	0.514	0.514	3.125	13.6	152	9.9	8.1		
10/16/2009 4:30	0.509	0.509	2.949	13.5	154	9.9	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/16/2009 4:45	0.507	0.507	2.881	13.5	154	9.9	8.1		
10/16/2009 5:00	0.502	0.502	2.718	13.5	154	9.9	8.1		
10/16/2009 5:15	0.498	0.498	2.595	13.4	154	9.9	8.1		
10/16/2009 5:30	0.498	0.498	2.595	13.4	154	9.9	8.1		
10/16/2009 5:45	0.494	0.494	2.477	13.4	156	10	8.1		
10/16/2009 6:00	0.506	0.506	2.848	13.3	156	10	8.1		
10/16/2009 6:15	0.489	0.489	2.337	13.3	156	10	8.1		
10/16/2009 6:30	0.494	0.494	2.477	13.3	156	10	8.1		
10/16/2009 6:45	0.483	0.483	2.179	13.2	156	10	8.1		
10/16/2009 7:00	0.48	0.48	2.105	13.2	158	10	8.1		
10/16/2009 7:15	0.486	0.486	2.257	13.2	158	10	8.1		
10/16/2009 7:30	0.481	0.481	2.129	13.2	158	10	8.1		
10/16/2009 7:45	0.479	0.479	2.080	13.1	158	10	8.1		
10/16/2009 8:00	0.475	0.475	1.986	13.1	160	10	8.1		
10/16/2009 8:15	0.473	0.473	1.940	13.1	160	10	8.1		
10/16/2009 8:30	0.475	0.475	1.986	13	160	10	8.1		
10/16/2009 8:45	0.469	0.469	1.852	13	160	10	8.1		
10/16/2009 9:00	0.475	0.475	1.986	13	160	10.1	8.1		
10/16/2009 9:15	0.47	0.47	1.874	13	162	10.1	8.1		
10/16/2009 9:30	0.468	0.468	1.831	13	162	10.1	8.1		
10/16/2009 9:45	0.471	0.471	1.896	12.9	162	10.1	8.1		
10/16/2009 10:00	0.469	0.469	1.852	12.9	162	10.1	8.1		
10/16/2009 10:15	0.464	0.464	1.747	12.9	162	10.1	8.1		
10/16/2009 10:30	0.467	0.467	1.809	12.9	162	10.1	8.1		
10/16/2009 10:45	0.464	0.464	1.747	12.9	162	10.1	8.1		
10/16/2009 11:00	0.462	0.462	1.707	12.9	162	10.1	8.1		
10/16/2009 11:15	0.459	0.459	1.649	12.9	162	10.1	8.1		
10/16/2009 11:30	0.457	0.457	1.611	12.8	162	10.1	8.1		
10/16/2009 11:45	0.458	0.458	1.630	12.8	164	10.1	8.1		
10/16/2009 12:00	0.461	0.461	1.688	12.8	164	10.1	8.1		
10/16/2009 12:15	0.456	0.456	1.592	12.8	164	10.1	8.1		
10/16/2009 12:30	0.457	0.457	1.611	12.8	164	10.1	8.1		
10/16/2009 12:45	0.453	0.453	1.538	12.8	164	10.1	8.1		
10/16/2009 13:00	0.449	0.449	1.468	12.8	166	10.1	8.1		
10/16/2009 13:15	0.451	0.451	1.502	12.8	166	10.1	8.1		13:11
10/16/2009 13:30	0.45	0.45	1.485	12.8	166	10.2	8.1		
10/16/2009 13:45	0.446	0.446	1.417	12.7	166	10.1	8.1		
10/16/2009 14:00	0.445	0.445	1.401	12.7	168	10.1	8.1		
10/16/2009 14:15	0.445	0.445	1.401	12.7	168	10.1	8.1		
10/16/2009 14:30	0.449	0.449	1.468	12.7	168	10.1	8.1		
10/16/2009 14:45	0.444	0.444	1.385	12.7	168	10.2	8.1		
10/16/2009 15:00	0.443	0.443	1.369	12.7	170	10.2	8.1		
10/16/2009 15:15	0.439	0.439	1.307	12.6	170	10.2	8.1		
10/16/2009 15:30	0.437	0.437	1.277	12.6	170	10	8.1		
10/16/2009 15:45	0.436	0.436	1.262	12.6	172	10.2	8.1		
10/16/2009 16:00	0.436	0.436	1.262	12.6	172	10.2	8.1		
10/16/2009 16:15	0.437	0.437	1.277	12.6	172	10.2	8.1		
10/16/2009 16:30	0.435	0.435	1.247	12.6	172	10.2	8.1		
10/16/2009 16:45	0.435	0.435	1.247	12.6	172	10.2	8.1		
10/16/2009 17:00	0.429	0.429	1.163	12.5	172	10.2	8.1		
10/16/2009 17:15	0.43	0.43	1.177	12.5	172	10.2	8.1		
10/16/2009 17:30	0.431	0.431	1.191	12.5	174	10.2	8.1		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/16/2009 17:45	0.43	0.43	1.177	12.5	174	10.2	8.1		
10/16/2009 18:00	0.433	0.433	1.219	12.4	174	10.3	8.1		
10/16/2009 18:15	0.432	0.432	1.204	12.4	174	10.2	8.1		
10/16/2009 18:30	0.428	0.428	1.150	12.4	174	10.3	8.1		
10/16/2009 18:45	0.429	0.429	1.163	12.3	176	10.3	8.1		
10/16/2009 19:00	0.431	0.431	1.191	12.3	176	10.3	8.1		
10/16/2009 19:15	0.432	0.432	1.204	12.3	176	10.3	8.1		
10/16/2009 19:30	0.433	0.433	1.219	12.2	176	10.3	8.1		
10/16/2009 19:45	0.426	0.426	1.123	12.2	178	10.3	8.1		
10/16/2009 20:00	0.432	0.432	1.204	12.2	178	10.3	8.2		
10/16/2009 20:15	0.433	0.433	1.219	12.1	178	10.4	8.2		
10/16/2009 20:30	0.427	0.427	1.136	12.1	178	10.3	8.2		
10/16/2009 20:45	0.43	0.43	1.177	12.1	178	10.3	8.2		
10/16/2009 21:00	0.427	0.427	1.136	12	176	10.3	8.1		
10/16/2009 21:15	0.427	0.427	1.136	12	176	10.4	8.1		
10/16/2009 21:30	0.426	0.426	1.123	12	178	10.4	8.1		
10/16/2009 21:45	0.428	0.428	1.150	11.9	178	10.4	8.1		
10/16/2009 22:00	0.42	0.42	1.048	11.9	178	10.4	8.1		
10/16/2009 22:15	0.423	0.423	1.085	11.9	180	10.4	8.1		
10/16/2009 22:30	0.421	0.421	1.060	11.9	180	10.4	8.1		
10/16/2009 22:45	0.42	0.42	1.048	11.8	180	10.4	8.2		
10/16/2009 23:00	0.418	0.418	1.024	11.8	180	10.4	8.2		
10/16/2009 23:15	0.418	0.418	1.024	11.8	180	10.4	8.2		
10/16/2009 23:30	0.413	0.413	0.966	11.8	180	10.5	8.2		
10/16/2009 23:45	0.42	0.42	1.048	11.7	180	10.4	8.2		
10/17/2009 0:00	0.419	0.419	1.035	11.7	182	10.4	8.2		
10/17/2009 0:15	0.412	0.412	0.955	11.7	182	10.4	8.2		
10/17/2009 0:30	0.411	0.411	0.944	11.6	182	10.5	8.2		
10/17/2009 0:45	0.41	0.41	0.933	11.6	182	10.5	8.2		
10/17/2009 1:00	0.409	0.409	0.922	11.6	182	10.5	8.2		
10/17/2009 1:15	0.409	0.409	0.922	11.5	182	10.5	8.2		
10/17/2009 1:30	0.41	0.41	0.933	11.5	182	10.5	8.2		
10/17/2009 1:45	0.412	0.412	0.955	11.5	182	10.5	8.2		
10/17/2009 2:00	0.408	0.408	0.911	11.4	182	10.5	8.2		
10/17/2009 2:15	0.411	0.411	0.944	11.4	182	10.5	8.2		
10/17/2009 2:30	0.404	0.404	0.870	11.4	182	10.5	8.2		
10/17/2009 2:45	0.407	0.407	0.901	11.4	182	10.5	8.2		
10/17/2009 3:00	0.41	0.41	0.933	11.3	182	10.5	8.2		
10/17/2009 3:15	0.409	0.409	0.922	11.3	182	10.5	8.2		
10/17/2009 3:30	0.406	0.406	0.890	11.3	180	10.5	8.2		
10/17/2009 3:45	0.404	0.404	0.870	11.2	180	10.6	8.2		
10/17/2009 4:00	0.405	0.405	0.880	11.2	180	10.6	8.2		
10/17/2009 4:15	0.4	0.4	0.830	11.2	180	10.6	8.2		
10/17/2009 4:30	0.403	0.403	0.860	11.1	180	10.6	8.2		
10/17/2009 4:45	0.405	0.405	0.880	11.1	180	10.6	8.2		
10/17/2009 5:00	0.4	0.4	0.830	11.1	180	10.6	8.2		
10/17/2009 5:15	0.401	0.401	0.840	11.1	180	10.6	8.2		
10/17/2009 5:30	0.396	0.396	0.793	11	174	10.6	8.2		
10/17/2009 5:45	0.399	0.399	0.821	11	176	10.6	8.2		
10/17/2009 6:00	0.397	0.397	0.802	11	174	10.7	8.2		
10/17/2009 6:15	0.395	0.395	0.783	11	172	10.6	8.2		
10/17/2009 6:30	0.396	0.396	0.793	10.9	170	10.7	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled	
10/17/2009 6:45	0.394	0.394	0.774	10.9	170	10.7	8.2			
10/17/2009 7:00	0.399	0.399	0.821	10.9	166	10.7	8.2			
10/17/2009 7:15	0.388	0.388	0.722	10.9	170	10.7	8.2			
10/17/2009 7:30	0.388	0.388	0.722	10.9	168	10.7	8.2			
10/17/2009 7:45	0.391	0.391	0.748	10.8	176	10.7	8.2			
10/17/2009 8:00	0.391	0.391	0.748	10.8	162	10.7	8.2			
10/17/2009 8:15	0.389	0.389	0.731	10.8	162	10.7	8.2			
10/17/2009 8:30	0.391	0.391	0.748	10.8	168	10.7	8.2			
10/17/2009 8:45	0.393	0.393	0.765	10.8	180	10.7	8.2			
10/17/2009 9:00	0.389	0.389	0.731	10.8	180	10.7	8.2			
10/17/2009 9:15	0.391	0.391	0.748	10.8	176	10.8	8.2			
10/17/2009 9:30	0.388	0.388	0.722	10.8	178	10.7	8.2			
10/17/2009 9:45	0.389	0.389	0.731	10.8	174	10.7	8.2			
10/17/2009 10:00	0.389	0.389	0.731	10.8	174	10.8	8.2			
10/17/2009 10:15	0.385	0.385	0.697	10.8	174	10.7	8.2			
10/17/2009 10:30	0.384	0.384	0.689	10.8	176	10.7	8.2			
10/17/2009 10:45	**0.4004**	**0.4004**	**0.834**		**190**			* (17)		
10/17/2009 11:00	**0.4086**	**0.4086**	**0.918**		**190**					
10/17/2009 11:15	0.4168	0.4168	1.009	10.8	204	10.7	8.3	* (18)		
10/17/2009 11:30	0.4201	0.4201	1.049	10.8	210	10.7	8.3			11:31
10/17/2009 11:45	0.4167	0.4167	1.008	10.8	210	10.8	8.3			
10/17/2009 12:00	0.421	0.421	1.060	10.8	212	10.9	8.3			
10/17/2009 12:15	0.418	0.418	1.024	10.7	212	10.9	8.3			
10/17/2009 12:30	0.414	0.414	0.977	10.7	212	10.9	8.3			
10/17/2009 12:45	0.417	0.417	1.012	10.7	212	10.9	8.3			
10/17/2009 13:00	0.411	0.411	0.944	10.6	212	10.9	8.3			
10/17/2009 13:15	0.403	0.403	0.860	10.6	214	10.9	8.3			
10/17/2009 13:30	0.409	0.409	0.922	10.6	214	10.9	8.3			
10/17/2009 13:45	0.411	0.411	0.944	10.5	214	10.9	8.3			
10/17/2009 14:00	0.403	0.403	0.860	10.5	214	10.9	8.3			
10/17/2009 14:15	0.403	0.403	0.860	10.5	212	10.9	8.3			
10/17/2009 14:30	0.399	0.399	0.821	10.4	198	10.9	8.3			
10/17/2009 14:45	0.4	0.4	0.830	10.4	214	10.9	8.3			
10/17/2009 15:00	0.399	0.399	0.821	10.4	206	10.9	8.3			
10/17/2009 15:15	0.398	0.398	0.811	10.4	214	10.9	8.3			
10/17/2009 15:30	0.4	0.4	0.830	10.3	208	10.9	8.3			
10/17/2009 15:45	0.389	0.389	0.731	10.3	212	10.9	8.3			
10/17/2009 16:00	0.391	0.391	0.748	10.3	212	10.9	8.3			
10/17/2009 16:15	0.398	0.398	0.811	10.3	216	10.9	8.3			
10/17/2009 16:30	0.392	0.392	0.756	10.3	218	10.9	8.3			
10/17/2009 16:45	0.39	0.39	0.739	10.2	218	11	8.3			
10/17/2009 17:00	0.393	0.393	0.765	10.2	216	10.9	8.3			
10/17/2009 17:15	0.393	0.393	0.765	10.1	218	10.9	8.3			
10/17/2009 17:30	0.393	0.393	0.765	10.1	218	10.9	8.3			
10/17/2009 17:45	0.389	0.389	0.731	10.1	218	11	8.3			
10/17/2009 18:00	0.392	0.392	0.756	10	220	11	8.3			
10/17/2009 18:15	0.392	0.392	0.756	10	218	11	8.3			
10/17/2009 18:30	0.388	0.388	0.722	10	220	11	8.3			
10/17/2009 18:45	0.391	0.391	0.748	9.9	216	11	8.3			
10/17/2009 19:00	0.395	0.395	0.783	9.9	220	11	8.3			
10/17/2009 19:15	0.389	0.389	0.731	9.9	218	11	8.3			
10/17/2009 19:30	0.387	0.387	0.714	9.8	218	11	8.3			

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/17/2009 19:45	0.387	0.387	0.714	9.8	218	11	8.3		
10/17/2009 20:00	0.387	0.387	0.714	9.8	222	11.1	8.3		
10/17/2009 20:15	0.389	0.389	0.731	9.8	222	11	8.3		
10/17/2009 20:30	0.389	0.389	0.731	9.8	224	11	8.3		
10/17/2009 20:45	0.389	0.389	0.731	9.8	224	11	8.3		
10/17/2009 21:00	0.384	0.384	0.689	9.7	224	11.1	8.3		
10/17/2009 21:15	0.389	0.389	0.731	9.7	224	11.1	8.3		
10/17/2009 21:30	0.385	0.385	0.697	9.7	224	11.1	8.3		
10/17/2009 21:45	0.382	0.382	0.673	9.7	226	11.1	8.3		
10/17/2009 22:00	0.385	0.385	0.697	9.7	224	11.1	8.3		
10/17/2009 22:15	0.383	0.383	0.681	9.7	226	11.1	8.3		
10/17/2009 22:30	**0.3815**	**0.3815**	**0.670**	9.7	226	11.1	8.3	* (19)	
10/17/2009 22:45	0.38	0.38	0.658	9.6	226	11.1	8.3		
10/17/2009 23:00	0.38	0.38	0.658	9.6	226	11.1	8.3		
10/17/2009 23:15	0.39	0.39	0.739	9.6	226	11.1	8.3		
10/17/2009 23:30	0.378	0.378	0.643	9.6	228	11.1	8.3		
10/17/2009 23:45	0.382	0.382	0.673	9.5	226	11.1	8.3		
10/18/2009 0:00	0.376	0.376	0.628	9.5	226	11.2	8.3		
10/18/2009 0:15	0.385	0.385	0.697	9.5	224	11.1	8.3		
10/18/2009 0:30	0.379	0.379	0.650	9.5	228	11.1	8.3		
10/18/2009 0:45	0.382	0.382	0.673	9.4	228	11.1	8.3		
10/18/2009 1:00	0.379	0.379	0.650	9.4	230	11.2	8.3		
10/18/2009 1:15	0.376	0.376	0.628	9.4	230	11.2	8.3		
10/18/2009 1:30	0.377	0.377	0.635	9.4	230	11.2	8.3		
10/18/2009 1:45	0.376	0.376	0.628	9.3	230	11.2	8.3		
10/18/2009 2:00	0.379	0.379	0.650	9.3	232	11.2	8.3		
10/18/2009 2:15	0.369	0.369	0.579	9.2	232	11.2	8.3		
10/18/2009 2:30	0.374	0.374	0.614	9.2	230	11.2	8.3		
10/18/2009 2:45	0.378	0.378	0.643	9.2	228	11.3	8.3		
10/18/2009 3:00	0.374	0.374	0.614	9.2	228	11.2	8.3		
10/18/2009 3:15	0.378	0.378	0.643	9.1	228	11.2	8.3		
10/18/2009 3:30	0.376	0.376	0.628	9.1	228	11.2	8.3		
10/18/2009 3:45	0.374	0.374	0.614	9.1	228	11.3	8.3		
10/18/2009 4:00	0.374	0.374	0.614	9.1	226	11.2	8.3		
10/18/2009 4:15	0.374	0.374	0.614	9.1	232	11.2	8.3		
10/18/2009 4:30	0.368	0.368	0.572	9.1	230	11.3	8.3		
10/18/2009 4:45	0.365	0.365	0.553	9	234	11.3	8.3		
10/18/2009 5:00	0.373	0.373	0.607	9	234	11.3	8.3		
10/18/2009 5:15	0.367	0.367	0.566	8.9	234	11.3	8.3		
10/18/2009 5:30	0.367	0.367	0.566	8.9	236	11.3	8.3		
10/18/2009 5:45	0.368	0.368	0.572	8.9	236	11.3	8.3		
10/18/2009 6:00	0.367	0.367	0.566	8.8	234	11.3	8.3		
10/18/2009 6:15	0.368	0.368	0.572	8.8	234	11.4	8.3		
10/18/2009 6:30	0.365	0.365	0.553	8.8	234	11.4	8.3		
10/18/2009 6:45	0.367	0.367	0.566	8.7	234	11.4	8.3		
10/18/2009 7:00	0.366	0.366	0.559	8.7	238	11.4	8.3		
10/18/2009 7:15	0.372	0.372	0.600	8.6	236	11.5	8.3		
10/18/2009 7:30	0.365	0.365	0.553	8.6	238	11.4	8.3		
10/18/2009 7:45	0.367	0.367	0.566	8.6	238	11.4	8.3		
10/18/2009 8:00	0.359	0.359	0.515	8.6	236	11.4	8.3		
10/18/2009 8:15	0.366	0.366	0.559	8.6	238	11.5	8.3		
10/18/2009 8:30	0.365	0.365	0.553	8.7	236	11.5	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/18/2009 8:45	0.363	0.363	0.540	8.8	236	11.4	8.3		
10/18/2009 9:00	0.365	0.365	0.553	8.8	236	11.4	8.3		
10/18/2009 9:15	0.361	0.361	0.528	8.9	236	11.4	8.3		
10/18/2009 9:30	0.361	0.361	0.528	9	240	11.4	8.3		
10/18/2009 9:45	0.363	0.363	0.540	9.1	240	11.4	8.3		
10/18/2009 10:00	0.356	0.356	0.498	9.1	240	11.4	8.3		
10/18/2009 10:15	0.363	0.363	0.540	9.2	242	11.3	8.3		
10/18/2009 10:30	0.359	0.359	0.515	9.3	242	11.3	8.3		
10/18/2009 10:45	0.358	0.358	0.509	9.4	242	11.3	8.3		
10/18/2009 11:00	0.359	0.359	0.515	9.3	242	11.3	8.3		
10/18/2009 11:15	0.355	0.355	0.492	9.3	244	11.3	8.3		
10/18/2009 11:30	0.363	0.363	0.540	9.4	244	11.3	8.3		11:31
10/18/2009 11:45	0.359	0.359	0.515	9.4	244	11.3	8.3		
10/18/2009 12:00	0.359	0.359	0.515	9.4	244	11.3	8.3		
10/18/2009 12:15	0.358	0.358	0.509	9.5	244	11.3	8.3		
10/18/2009 12:30	0.359	0.359	0.515	9.5	246	11.2	8.3		
10/18/2009 12:45	0.354	0.354	0.486	9.5	244	11.2	8.3		
10/18/2009 13:00	0.354	0.354	0.486	9.5	244	11.3	8.3		
10/18/2009 13:15	0.36	0.36	0.521	9.6	244	11.2	8.4		
10/18/2009 13:30	0.357	0.357	0.504	9.6	246	11.2	8.4		
10/18/2009 13:45	0.354	0.354	0.486	9.7	246	11.2	8.4		
10/18/2009 14:00	0.35	0.35	0.464	9.7	246	11.2	8.4		
10/18/2009 14:15	0.357	0.357	0.504	9.8	246	11.1	8.4		
10/18/2009 14:30	0.358	0.358	0.509	9.8	248	11.1	8.4		
10/18/2009 14:45	0.359	0.359	0.515	9.8	248	11.1	8.4		
10/18/2009 15:00	0.356	0.356	0.498	9.8	248	11.1	8.4		
10/18/2009 15:15	0.353	0.353	0.481	9.8	248	11.1	8.4		
10/18/2009 15:30	0.358	0.358	0.509	9.8	248	11.1	8.4		
10/18/2009 15:45	0.355	0.355	0.492	9.8	250	11.1	8.4		
10/18/2009 16:00	0.358	0.358	0.509	9.8	248	11.1	8.4		
10/18/2009 16:15	0.356	0.356	0.498	9.8	250	11.1	8.4		
10/18/2009 16:30	0.353	0.353	0.481	9.8	250	11.1	8.4		
10/18/2009 16:45	0.35	0.35	0.464	9.8	250	11.1	8.4		
10/18/2009 17:00	0.35	0.35	0.464	9.7	250	11.1	8.3		
10/18/2009 17:15	0.351	0.351	0.470	9.7	250	11.1	8.3		
10/18/2009 17:30	0.352	0.352	0.475	9.6	250	11.1	8.3		
10/18/2009 17:45	0.351	0.351	0.470	9.6	250	11.1	8.3		
10/18/2009 18:00	0.355	0.355	0.492	9.6	250	11.1	8.3		
10/18/2009 18:15	0.352	0.352	0.475	9.5	250	11.1	8.3		
10/18/2009 18:30	0.348	0.348	0.454	9.5	250	11.2	8.3		
10/18/2009 18:45	0.347	0.347	0.448	9.4	250	11.2	8.3		
10/18/2009 19:00	0.349	0.349	0.459	9.4	252	11.2	8.3		
10/18/2009 19:15	0.349	0.349	0.459	9.3	252	11.2	8.3		
10/18/2009 19:30	0.352	0.352	0.475	9.2	252	11.2	8.3		
10/18/2009 19:45	0.351	0.351	0.470	9.2	252	11.3	8.3		
10/18/2009 20:00	0.351	0.351	0.470	9.1	252	11.3	8.3		
10/18/2009 20:15	0.347	0.347	0.448	9	256	11.3	8.3		
10/18/2009 20:30	0.346	0.346	0.443	9	252	11.3	8.3		
10/18/2009 20:45	0.351	0.351	0.470	8.9	250	11.4	8.3		
10/18/2009 21:00	0.347	0.347	0.448	8.8	250	11.3	8.3		
10/18/2009 21:15	0.353	0.353	0.481	8.8	252	11.4	8.3		
10/18/2009 21:30	0.344	0.344	0.433	8.7	256	11.4	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/18/2009 21:45	0.348	0.348	0.454	8.7	254	11.4	8.3		
10/18/2009 22:00	0.348	0.348	0.454	8.6	256	11.5	8.3		
10/18/2009 22:15	0.343	0.343	0.428	8.5	252	11.4	8.3		
10/18/2009 22:30	0.348	0.348	0.454	8.5	256	11.4	8.3		
10/18/2009 22:45	0.346	0.346	0.443	8.4	256	11.5	8.3		
10/18/2009 23:00	0.345	0.345	0.438	8.4	256	11.5	8.3		
10/18/2009 23:15	0.34	0.34	0.413	8.3	256	11.5	8.3		
10/18/2009 23:30	0.348	0.348	0.454	8.3	256	11.5	8.3		
10/18/2009 23:45	0.344	0.344	0.433	8.3	256	11.5	8.3		
10/19/2009 0:00	0.345	0.345	0.438	8.2	258	11.5	8.3		
10/19/2009 0:15	0.343	0.343	0.428	8.2	258	11.6	8.3		
10/19/2009 0:30	0.345	0.345	0.438	8.2	254	11.6	8.3		
10/19/2009 0:45	0.341	0.341	0.418	8.1	260	11.6	8.3		
10/19/2009 1:00	0.339	0.339	0.408	8.1	256	11.6	8.3		
10/19/2009 1:15	0.34	0.34	0.413	8.1	260	11.6	8.3		
10/19/2009 1:30	0.34	0.34	0.413	8	258	11.6	8.3		
10/19/2009 1:45	0.337	0.337	0.399	8	256	11.6	8.3		
10/19/2009 2:00	0.339	0.339	0.408	8	260	11.6	8.3		
10/19/2009 2:15	0.34	0.34	0.413	7.9	258	11.6	8.3		
10/19/2009 2:30	0.341	0.341	0.418	7.9	260	11.6	8.3		
10/19/2009 2:45	0.338	0.338	0.404	7.9	256	11.6	8.3		
10/19/2009 3:00	0.339	0.339	0.408	7.8	260	11.7	8.3		
10/19/2009 3:15	0.341	0.341	0.418	7.8	262	11.7	8.3		
10/19/2009 3:30	0.34	0.34	0.413	7.8	262	11.7	8.3		
10/19/2009 3:45	0.342	0.342	0.423	7.8	264	11.7	8.3		
10/19/2009 4:00	0.345	0.345	0.438	7.7	262	11.7	8.3		
10/19/2009 4:15	0.346	0.346	0.443	7.7	264	11.7	8.3		
10/19/2009 4:30	0.345	0.345	0.438	7.7	264	11.8	8.3		
10/19/2009 4:45	0.34	0.34	0.413	7.6	264	11.7	8.3		
10/19/2009 5:00	0.339	0.339	0.408	7.6	264	11.7	8.3		
10/19/2009 5:15	0.336	0.336	0.394	7.6	266	11.7	8.3		
10/19/2009 5:30	0.337	0.337	0.399	7.5	264	11.8	8.3		
10/19/2009 5:45	0.34	0.34	0.413	7.5	264	11.8	8.3		
10/19/2009 6:00	0.338	0.338	0.404	7.5	262	11.8	8.3		
10/19/2009 6:15	0.341	0.341	0.418	7.5	266	11.8	8.3		
10/19/2009 6:30	0.343	0.343	0.428	7.4	264	11.8	8.3		
10/19/2009 6:45	0.341	0.341	0.418	7.4	264	11.8	8.3		
10/19/2009 7:00	0.336	0.336	0.394	7.4	266	11.9	8.3		
10/19/2009 7:15	0.337	0.337	0.399	7.4	266	11.8	8.3		
10/19/2009 7:30	0.336	0.336	0.394	7.3	266	11.8	8.3		
10/19/2009 7:45	0.338	0.338	0.404	7.3	262	11.9	8.3		
10/19/2009 8:00	0.341	0.341	0.418	7.3	268	11.9	8.3		
10/19/2009 8:15	0.335	0.335	0.390	7.3	268	11.9	8.3		
10/19/2009 8:30	0.334	0.334	0.385	7.3	266	11.9	8.3		
10/19/2009 8:45	0.332	0.332	0.377	7.4	264	11.9	8.4		
10/19/2009 9:00	0.337	0.337	0.399	7.4	268	11.9	8.4		
10/19/2009 9:15	0.328	0.328	0.359	7.5	264	11.9	8.4		
10/19/2009 9:30	0.332	0.332	0.377	7.4	268	11.9	8.4		
10/19/2009 9:45	0.333	0.333	0.381	7.6	266	11.8	8.4		
10/19/2009 10:00	0.334	0.334	0.385	7.7	268	11.9	8.4		
10/19/2009 10:15	0.335	0.335	0.390	7.8	272	11.8	8.4		
10/19/2009 10:30	0.337	0.337	0.399	7.9	270	11.8	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/19/2009 10:45	0.333	0.333	0.381	8.1	270	11.7	8.4		
10/19/2009 11:00	0.331	0.331	0.372	8.2	270	11.7	8.4		
10/19/2009 11:15	0.333	0.333	0.381	8.3	270	11.6	8.4		
10/19/2009 11:30	0.333	0.333	0.381	8.4	268	11.6	8.4		11:31
10/19/2009 11:45	0.333	0.333	0.381	8.5	268	11.5	8.4		
10/19/2009 12:00	0.328	0.328	0.359	8.6	272	11.5	8.4		
10/19/2009 12:15	0.331	0.331	0.372	8.7	270	11.5	8.4		
10/19/2009 12:30	0.335	0.335	0.390	8.9	270	11.4	8.4		
10/19/2009 12:45	0.335	0.335	0.390	9	268	11.4	8.4		
10/19/2009 13:00	0.333	0.333	0.381	9.1	272	11.3	8.4		
10/19/2009 13:15	0.33	0.33	0.368	9.2	270	11.3	8.4		
10/19/2009 13:30	0.331	0.331	0.372	9.3	272	11.2	8.4		
10/19/2009 13:45	0.329	0.329	0.364	9.4	272	11.2	8.4		
10/19/2009 14:00	0.331	0.331	0.372	9.5	272	11.2	8.4		
10/19/2009 14:15	0.328	0.328	0.359	9.7	270	11.1	8.4		
10/19/2009 14:30	0.333	0.333	0.381	9.8	270	11.1	8.4		
10/19/2009 14:45	0.337	0.337	0.399	9.8	270	11	8.4		
10/19/2009 15:00	0.333	0.333	0.381	9.9	276	11	8.4		
10/19/2009 15:15	0.33	0.33	0.368	10	276	11	8.4		
10/19/2009 15:30	0.324	0.324	0.343	10.1	276	11	8.4		
10/19/2009 15:45	0.329	0.329	0.364	10.1	274	10.9	8.4		
10/19/2009 16:00	0.326	0.326	0.351	10.2	274	10.9	8.4		
10/19/2009 16:15	0.337	0.337	0.399	10.2	276	10.9	8.4		
10/19/2009 16:30	0.329	0.329	0.364	10.2	276	10.9	8.4		
10/19/2009 16:45	0.332	0.332	0.377	10.2	278	10.9	8.4		
10/19/2009 17:00	0.324	0.324	0.343	10.2	278	10.9	8.4		
10/19/2009 17:15	0.328	0.328	0.359	10.2	278	10.9	8.4		
10/19/2009 17:30	0.323	0.323	0.339	10.2	278	10.9	8.4		
10/19/2009 17:45	0.325	0.325	0.347	10.2	278	10.9	8.4		
10/19/2009 18:00	0.321	0.321	0.331	10.1	278	11	8.4		
10/19/2009 18:15	0.328	0.328	0.359	10.1	278	10.9	8.4		
10/19/2009 18:30	0.326	0.326	0.351	10	278	10.9	8.4		
10/19/2009 18:45	0.323	0.323	0.339	10	278	10.9	8.4		
10/19/2009 19:00	0.326	0.326	0.351	9.9	280	11	8.4		
10/19/2009 19:15	0.324	0.324	0.343	9.9	278	11	8.4		
10/19/2009 19:30	0.324	0.324	0.343	9.8	280	11	8.4		
10/19/2009 19:45	0.323	0.323	0.339	9.7	280	11	8.4		
10/19/2009 20:00	0.325	0.325	0.347	9.7	280	11	8.4		
10/19/2009 20:15	0.325	0.325	0.347	9.6	280	11.1	8.4		
10/19/2009 20:30	0.324	0.324	0.343	9.5	282	11.1	8.4		
10/19/2009 20:45	0.324	0.324	0.343	9.5	282	11.1	8.4		
10/19/2009 21:00	0.324	0.324	0.343	9.4	282	11.1	8.4		
10/19/2009 21:15	0.327	0.327	0.355	9.3	282	11.1	8.4		
10/19/2009 21:30	0.319	0.319	0.324	9.3	282	11.2	8.4		
10/19/2009 21:45	0.321	0.321	0.331	9.2	282	11.2	8.4		
10/19/2009 22:00	0.32	0.32	0.327	9.1	282	11.2	8.4		
10/19/2009 22:15	0.32	0.32	0.327	9.1	282	11.2	8.4		
10/19/2009 22:30	0.323	0.323	0.339	9	284	11.2	8.4		
10/19/2009 22:45	0.32	0.32	0.327	9	284	11.3	8.4		
10/19/2009 23:00	0.321	0.321	0.331	8.9	284	11.3	8.4		
10/19/2009 23:15	0.321	0.321	0.331	8.8	284	11.3	8.4		
10/19/2009 23:30	0.322	0.322	0.335	8.8	286	11.3	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/19/2009 23:45	0.319	0.319	0.324	8.7	284	11.3	8.4		
10/20/2009 0:00	0.321	0.321	0.331	8.7	286	11.4	8.4		
10/20/2009 0:15	0.32	0.32	0.327	8.6	284	11.4	8.4		
10/20/2009 0:30	0.32	0.32	0.327	8.6	286	11.4	8.4		
10/20/2009 0:45	0.32	0.32	0.327	8.5	286	11.4	8.4		
10/20/2009 1:00	0.322	0.322	0.335	8.4	286	11.4	8.4		
10/20/2009 1:15	0.32	0.32	0.327	8.4	286	11.4	8.4		
10/20/2009 1:30	0.32	0.32	0.327	8.3	288	11.5	8.4		
10/20/2009 1:45	0.321	0.321	0.331	8.3	286	11.5	8.4		
10/20/2009 2:00	0.32	0.32	0.327	8.3	286	11.5	8.4		
10/20/2009 2:15	0.318	0.318	0.320	8.2	288	11.5	8.4		
10/20/2009 2:30	0.318	0.318	0.320	8.2	288	11.6	8.4		
10/20/2009 2:45	0.32	0.32	0.327	8.1	288	11.5	8.4		
10/20/2009 3:00	0.32	0.32	0.327	8.1	288	11.5	8.4		
10/20/2009 3:15	0.317	0.317	0.316	8	290	11.5	8.4		
10/20/2009 3:30	0.32	0.32	0.327	8	290	11.6	8.4		
10/20/2009 3:45	0.317	0.317	0.316	7.9	290	11.6	8.4		
10/20/2009 4:00	0.318	0.318	0.320	7.9	290	11.6	8.4		
10/20/2009 4:15	0.319	0.319	0.324	7.9	290	11.6	8.4		
10/20/2009 4:30	0.319	0.319	0.324	7.8	292	11.6	8.4		
10/20/2009 4:45	0.317	0.317	0.316	7.8	292	11.6	8.4		
10/20/2009 5:00	0.316	0.316	0.313	7.8	290	11.6	8.4		
10/20/2009 5:15	0.315	0.315	0.309	7.7	290	11.7	8.4		
10/20/2009 5:30	0.317	0.317	0.316	7.7	292	11.7	8.4		
10/20/2009 5:45	0.318	0.318	0.320	7.7	292	11.7	8.4		
10/20/2009 6:00	0.317	0.317	0.316	7.6	294	11.7	8.4		
10/20/2009 6:15	0.322	0.322	0.335	7.6	292	11.7	8.4		
10/20/2009 6:30	0.324	0.324	0.343	7.6	292	11.7	8.4		
10/20/2009 6:45	0.326	0.326	0.351	7.6	294	11.8	8.4		
10/20/2009 7:00	0.322	0.322	0.335	7.6	292	11.7	8.4		
10/20/2009 7:15	0.323	0.323	0.339	7.5	294	11.7	8.4		
10/20/2009 7:30	0.322	0.322	0.335	7.5	294	11.7	8.4		
10/20/2009 7:45	0.317	0.317	0.316	7.5	294	11.8	8.4		
10/20/2009 8:00	0.322	0.322	0.335	7.5	294	11.8	8.4		
10/20/2009 8:15	0.322	0.322	0.335	7.5	294	11.8	8.4		
10/20/2009 8:30	0.319	0.319	0.324	7.6	296	11.8	8.4		
10/20/2009 8:45	0.319	0.319	0.324	7.6	294	11.8	8.4		
10/20/2009 9:00	0.321	0.321	0.331	7.7	296	11.8	8.4		
10/20/2009 9:15	0.319	0.319	0.324	7.8	296	11.8	8.4		
10/20/2009 9:30	0.319	0.319	0.324	8	294	11.7	8.4		
10/20/2009 9:45	0.322	0.322	0.335	8.2	296	11.6	8.4		
10/20/2009 10:00	0.318	0.318	0.320	8.3	296	11.6	8.4		
10/20/2009 10:15	0.322	0.322	0.335	8.5	294	11.5	8.4		
10/20/2009 10:30	0.319	0.319	0.324	8.7	296	11.5	8.4		
10/20/2009 10:45	0.315	0.315	0.309	8.9	296	11.4	8.4		
10/20/2009 11:00	0.32	0.32	0.327	9	298	11.4	8.4		
10/20/2009 11:15	0.325	0.325	0.347	9.2	296	11.3	8.4		
10/20/2009 11:30	0.32	0.32	0.327	9.3	298	11.3	8.4		11:31
10/20/2009 11:45	0.315	0.315	0.309	9.4	298	11.3	8.4		
10/20/2009 12:00	0.316	0.316	0.313	9.6	298	11.2	8.4		
10/20/2009 12:15	0.318	0.318	0.320	9.7	298	11.1	8.4		
10/20/2009 12:30	0.316	0.316	0.313	9.9	296	11.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/20/2009 12:45	0.317	0.317	0.316	10	298	11.1	8.4		
10/20/2009 13:00	0.315	0.315	0.309	10.2	300	11	8.4		
10/20/2009 13:15	0.317	0.317	0.316	10.3	298	10.9	8.4		
10/20/2009 13:30	0.317	0.317	0.316	10.4	300	10.9	8.4		
10/20/2009 13:45	0.317	0.317	0.316	10.5	300	10.9	8.4		
10/20/2009 14:00	0.318	0.318	0.320	10.7	300	10.8	8.4		
10/20/2009 14:15	0.314	0.314	0.305	10.8	300	10.8	8.4		
10/20/2009 14:30	0.315	0.315	0.309	10.9	300	10.7	8.4		
10/20/2009 14:45	0.316	0.316	0.313	11	302	10.7	8.4		
10/20/2009 15:00	0.313	0.313	0.302	11.1	300	10.7	8.4		
10/20/2009 15:15	0.313	0.313	0.302	11.2	302	10.6	8.4		
10/20/2009 15:30	0.315	0.315	0.309	11.2	302	10.6	8.4		
10/20/2009 15:45	0.315	0.315	0.309	11.3	302	10.6	8.4		
10/20/2009 16:00	0.315	0.315	0.309	11.3	302	10.6	8.4		
10/20/2009 16:15	0.316	0.316	0.313	11.3	302	10.6	8.4		
10/20/2009 16:30	0.316	0.316	0.313	11.3	304	10.6	8.4		
10/20/2009 16:45	0.313	0.313	0.302	11.3	304	10.6	8.4		
10/20/2009 17:00	0.315	0.315	0.309	11.3	304	10.6	8.4		
10/20/2009 17:15	0.316	0.316	0.313	11.2	304	10.6	8.4		
10/20/2009 17:30	0.313	0.313	0.302	11.2	304	10.6	8.4		
10/20/2009 17:45	0.314	0.314	0.305	11.1	306	10.6	8.4		
10/20/2009 18:00	0.311	0.311	0.295	11.1	306	10.6	8.4		
10/20/2009 18:15	0.312	0.312	0.298	11	306	10.6	8.4		
10/20/2009 18:30	0.312	0.312	0.298	11	306	10.6	8.4		
10/20/2009 18:45	0.313	0.313	0.302	10.9	306	10.6	8.4		
10/20/2009 19:00	0.314	0.314	0.305	10.9	306	10.7	8.4		
10/20/2009 19:15	0.31	0.31	0.292	10.8	308	10.7	8.4		
10/20/2009 19:30	0.309	0.309	0.288	10.7	308	10.7	8.4		
10/20/2009 19:45	0.313	0.313	0.302	10.7	308	10.8	8.4		
10/20/2009 20:00	0.309	0.309	0.288	10.6	308	10.7	8.4		
10/20/2009 20:15	0.312	0.312	0.298	10.5	308	10.8	8.4		
10/20/2009 20:30	0.309	0.309	0.288	10.4	308	10.8	8.4		
10/20/2009 20:45	0.31	0.31	0.292	10.4	308	10.8	8.4		
10/20/2009 21:00	0.311	0.311	0.295	10.3	308	10.9	8.4		
10/20/2009 21:15	0.31	0.31	0.292	10.2	308	10.8	8.4		
10/20/2009 21:30	0.311	0.311	0.295	10.2	308	10.9	8.4		
10/20/2009 21:45	0.309	0.309	0.288	10.1	308	10.9	8.4		
10/20/2009 22:00	0.31	0.31	0.292	10	308	10.9	8.4		
10/20/2009 22:15	0.306	0.306	0.278	9.9	310	11	8.4		
10/20/2009 22:30	0.306	0.306	0.278	9.9	310	11	8.4		
10/20/2009 22:45	0.306	0.306	0.278	9.8	310	11	8.4		
10/20/2009 23:00	0.305	0.305	0.275	9.7	310	11	8.4		
10/20/2009 23:15	0.306	0.306	0.278	9.6	310	11	8.4		
10/20/2009 23:30	0.305	0.305	0.275	9.6	310	11	8.4		
10/20/2009 23:45	0.305	0.305	0.275	9.5	310	11.1	8.4		
10/21/2009 0:00	0.307	0.307	0.282	9.4	312	11.1	8.4		
10/21/2009 0:15	0.306	0.306	0.278	9.4	312	11.1	8.4		
10/21/2009 0:30	0.305	0.305	0.275	9.3	314	11.1	8.4		
10/21/2009 0:45	0.304	0.304	0.272	9.2	312	11.1	8.4		
10/21/2009 1:00	0.305	0.305	0.275	9.2	312	11.2	8.4		
10/21/2009 1:15	0.302	0.302	0.266	9.1	312	11.2	8.4		
10/21/2009 1:30	0.307	0.307	0.282	9	312	11.2	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/21/2009 1:45	0.304	0.304	0.272	9	314	11.2	8.4		
10/21/2009 2:00	0.304	0.304	0.272	8.9	314	11.2	8.4		
10/21/2009 2:15	0.302	0.302	0.266	8.9	314	11.3	8.4		
10/21/2009 2:30	0.303	0.303	0.269	8.8	316	11.3	8.4		
10/21/2009 2:45	0.303	0.303	0.269	8.7	314	11.3	8.4		
10/21/2009 3:00	0.3	0.3	0.260	8.7	316	11.3	8.4		
10/21/2009 3:15	0.302	0.302	0.266	8.6	316	11.3	8.4		
10/21/2009 3:30	0.302	0.302	0.266	8.6	316	11.3	8.4		
10/21/2009 3:45	0.303	0.303	0.269	8.5	316	11.4	8.4		
10/21/2009 4:00	0.302	0.302	0.266	8.5	314	11.4	8.4		
10/21/2009 4:15	0.3	0.3	0.260	8.4	316	11.4	8.4		
10/21/2009 4:30	0.3	0.3	0.260	8.4	316	11.4	8.4		
10/21/2009 4:45	0.297	0.297	0.251	8.4	318	11.4	8.4		
10/21/2009 5:00	0.302	0.302	0.266	8.3	318	11.5	8.4		
10/21/2009 5:15	0.3	0.3	0.260	8.3	318	11.4	8.4		
10/21/2009 5:30	0.302	0.302	0.266	8.2	320	11.5	8.4		
10/21/2009 5:45	0.302	0.302	0.266	8.2	318	11.5	8.4		
10/21/2009 6:00	0.302	0.302	0.266	8.1	318	11.5	8.4		
10/21/2009 6:15	0.303	0.303	0.269	8.1	320	11.5	8.4		
10/21/2009 6:30	0.3	0.3	0.260	8.1	320	11.5	8.4		
10/21/2009 6:45	0.302	0.302	0.266	8	320	11.5	8.4		
10/21/2009 7:00	0.302	0.302	0.266	8	318	11.6	8.4		
10/21/2009 7:15	0.304	0.304	0.272	7.9	320	11.6	8.4		
10/21/2009 7:30	0.303	0.303	0.269	7.9	320	11.6	8.4		
10/21/2009 7:45	0.303	0.303	0.269	7.8	320	11.6	8.4		
10/21/2009 8:00	0.304	0.304	0.272	7.8	320	11.6	8.4		
10/21/2009 8:15	0.302	0.302	0.266	7.9	320	11.6	8.4		
10/21/2009 8:30	0.304	0.304	0.272	7.9	322	11.6	8.4		
10/21/2009 8:45	0.302	0.302	0.266	8	320	11.7	8.4		
10/21/2009 9:00	0.3	0.3	0.260	8.1	320	11.6	8.4		
10/21/2009 9:15	0.302	0.302	0.266	8.2	320	11.6	8.4		
10/21/2009 9:30	0.301	0.301	0.263	8.3	322	11.6	8.4		
10/21/2009 9:45	0.301	0.301	0.263	8.5	322	11.5	8.4		
10/21/2009 10:00	0.303	0.303	0.269	8.6	322	11.5	8.4		
10/21/2009 10:15	0.301	0.301	0.263	8.8	320	11.5	8.4		
10/21/2009 10:30	0.303	0.303	0.269	9	322	11.4	8.4		
10/21/2009 10:45	0.302	0.302	0.266	9.1	320	11.3	8.4		
10/21/2009 11:00	0.3	0.3	0.260	9.3	322	11.3	8.4		
10/21/2009 11:15	0.301	0.301	0.263	9.4	322	11.3	8.4		
10/21/2009 11:30	0.3	0.3	0.260	9.6	320	11.2	8.4		11:31
10/21/2009 11:45	0.298	0.298	0.254	9.7	320	11.1	8.4		
10/21/2009 12:00	0.302	0.302	0.266	9.9	322	11.1	8.5		
10/21/2009 12:15	0.302	0.302	0.266	10.1	320	11	8.5		
10/21/2009 12:30	0.303	0.303	0.269	10.2	322	11	8.5		
10/21/2009 12:45	0.3	0.3	0.260	10.4	322	11	8.5		
10/21/2009 13:00	0.301	0.301	0.263	10.6	322	10.9	8.5		
10/21/2009 13:15	0.298	0.298	0.254	10.7	322	10.8	8.5		
10/21/2009 13:30	0.3	0.3	0.260	10.8	322	10.8	8.5		
10/21/2009 13:45	0.301	0.301	0.263	10.9	320	10.7	8.5		
10/21/2009 14:00	0.3	0.3	0.260	11	322	10.7	8.5		
10/21/2009 14:15	0.3	0.3	0.260	11.1	324	10.7	8.5		
10/21/2009 14:30	0.298	0.298	0.254	11.2	322	10.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/21/2009 14:45	0.297	0.297	0.251	11.3	320	10.6	8.5		
10/21/2009 15:00	0.301	0.301	0.263	11.4	322	10.6	8.5		
10/21/2009 15:15	0.3	0.3	0.260	11.5	322	10.5	8.5		
10/21/2009 15:30	0.3	0.3	0.260	11.6	322	10.5	8.5		
10/21/2009 15:45	0.3	0.3	0.260	11.6	322	10.5	8.5		
10/21/2009 16:00	0.299	0.299	0.257	11.7	324	10.5	8.5		
10/21/2009 16:15	0.301	0.301	0.263	11.8	324	10.5	8.5		
10/21/2009 16:30	0.296	0.296	0.248	11.8	324	10.4	8.5		
10/21/2009 16:45	0.298	0.298	0.254	11.8	322	10.4	8.5		
10/21/2009 17:00	0.299	0.299	0.257	11.8	322	10.4	8.5		
10/21/2009 17:15	0.301	0.301	0.263	11.8	324	10.4	8.5		
10/21/2009 17:30	0.3	0.3	0.260	11.7	324	10.4	8.5		
10/21/2009 17:45	0.298	0.298	0.254	11.7	324	10.4	8.5		
10/21/2009 18:00	0.302	0.302	0.266	11.6	326	10.4	8.5		
10/21/2009 18:15	0.3	0.3	0.260	11.6	326	10.4	8.5		
10/21/2009 18:30	0.3	0.3	0.260	11.5	328	10.4	8.5		
10/21/2009 18:45	0.3	0.3	0.260	11.5	328	10.5	8.5		
10/21/2009 19:00	0.301	0.301	0.263	11.4	328	10.5	8.5		
10/21/2009 19:15	0.301	0.301	0.263	11.3	326	10.5	8.5		
10/21/2009 19:30	0.3	0.3	0.260	11.2	328	10.5	8.5		
10/21/2009 19:45	0.3	0.3	0.260	11.2	328	10.5	8.5		
10/21/2009 20:00	0.301	0.301	0.263	11.1	324	10.5	8.5		
10/21/2009 20:15	0.302	0.302	0.266	11.1	330	10.6	8.5		
10/21/2009 20:30	0.301	0.301	0.263	11	330	10.6	8.5		
10/21/2009 20:45	0.3	0.3	0.260	11	328	10.6	8.5		
10/21/2009 21:00	0.302	0.302	0.266	10.9	326	10.6	8.5		
10/21/2009 21:15	0.301	0.301	0.263	10.8	330	10.7	8.5		
10/21/2009 21:30	0.3	0.3	0.260	10.8	330	10.6	8.5		
10/21/2009 21:45	0.3	0.3	0.260	10.7	332	10.6	8.5		
10/21/2009 22:00	0.3	0.3	0.260	10.7	330	10.7	8.5		
10/21/2009 22:15	0.301	0.301	0.263	10.6	332	10.7	8.4		
10/21/2009 22:30	0.302	0.302	0.266	10.6	330	10.7	8.4		
10/21/2009 22:45	0.299	0.299	0.257	10.5	332	10.7	8.5		
10/21/2009 23:00	0.302	0.302	0.266	10.4	332	10.7	8.5		
10/21/2009 23:15	0.3	0.3	0.260	10.4	330	10.7	8.5		
10/21/2009 23:30	0.299	0.299	0.257	10.3	332	10.8	8.4		
10/21/2009 23:45	0.3	0.3	0.260	10.3	330	10.8	8.4		
10/22/2009 0:00	0.298	0.298	0.254	10.2	326	10.8	8.4		
10/22/2009 0:15	0.299	0.299	0.257	10.1	326	10.8	8.4		
10/22/2009 0:30	0.301	0.301	0.263	10.1	324	10.8	8.4		
10/22/2009 0:45	0.3	0.3	0.260	10	332	10.8	8.4		
10/22/2009 1:00	0.299	0.299	0.257	10	332	10.9	8.4		
10/22/2009 1:15	0.3	0.3	0.260	9.9	*330*	10.9	8.4		
10/22/2009 1:30	0.299	0.299	0.257	9.9	*326*	10.9	8.4		
10/22/2009 1:45	0.298	0.298	0.254	9.9	*324*	10.9	8.4		
10/22/2009 2:00	0.298	0.298	0.254	9.8	*324*	10.9	8.4		
10/22/2009 2:15	0.297	0.297	0.251	9.8	*322*	10.9	8.4		
10/22/2009 2:30	0.299	0.299	0.257	9.8	*320*	10.9	8.4		
10/22/2009 2:45	0.298	0.298	0.254	9.7	*320*	10.9	8.4		
10/22/2009 3:00	0.298	0.298	0.254	9.7	*302*	10.9	8.4		
10/22/2009 3:15	0.3	0.3	0.260	9.7	*316*	10.9	8.4		
10/22/2009 3:30	0.299	0.299	0.257	9.7	*314*	10.9	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/22/2009 3:45	0.297	0.297	0.251	9.6	*322*	11	8.4		
10/22/2009 4:00	0.298	0.298	0.254	9.6	*318*	11	8.4		
10/22/2009 4:15	0.297	0.297	0.251	9.6	*318*	11	8.4		
10/22/2009 4:30	0.297	0.297	0.251	9.5	*316*	11	8.4		
10/22/2009 4:45	0.298	0.298	0.254	9.5	*318*	11	8.4		
10/22/2009 5:00	0.298	0.298	0.254	9.5	*312*	11	8.4		
10/22/2009 5:15	0.299	0.299	0.257	9.5	*312*	11	8.4		
10/22/2009 5:30	0.299	0.299	0.257	9.4	*312*	11	8.4		
10/22/2009 5:45	0.296	0.296	0.248	9.4	*308*	11	8.4		
10/22/2009 6:00	0.297	0.297	0.251	9.4	*306*	11	8.4		
10/22/2009 6:15	0.295	0.295	0.245	9.4	*304*	11	8.4		
10/22/2009 6:30	0.296	0.296	0.248	9.4	*300*	11	8.4		
10/22/2009 6:45	0.296	0.296	0.248	9.4	*298*	11	8.4		
10/22/2009 7:00	0.296	0.296	0.248	9.4	*284*	11	8.4		
10/22/2009 7:15	0.297	0.297	0.251	9.4	*296*	11	8.4		
10/22/2009 7:30	0.296	0.296	0.248	9.5	*294*	11.1	8.4		
10/22/2009 7:45	0.296	0.296	0.248	9.5	*298*	11	8.4		
10/22/2009 8:00	0.296	0.296	0.248	9.6	*300*	11	8.4		
10/22/2009 8:15	0.297	0.297	0.251	9.6	*288*	11	8.4		
10/22/2009 8:30	0.296	0.296	0.248	9.7	*290*	11	8.4		
10/22/2009 8:45	0.297	0.297	0.251	9.8	*294*	11	8.4		
10/22/2009 9:00	0.294	0.294	0.242	9.9	*294*	11	8.5		
10/22/2009 9:15	0.294	0.294	0.242	10	*286*	10.9	8.5		
10/22/2009 9:30	0.294	0.294	0.242	10.1	*280*	10.9	8.5		
10/22/2009 9:45	0.296	0.296	0.248	10.4	*292*	10.9	8.5		
10/22/2009 10:00	0.293	0.293	0.239	10.6	*278*	10.8	8.5		
10/22/2009 10:15	0.295	0.295	0.245	10.7	*278*	10.8	8.5		
10/22/2009 10:30	0.295	0.295	0.245	10.8	*282*	10.7	8.5		
10/22/2009 10:45	0.296	0.296	0.248	11	*270*	10.7	8.5		
10/22/2009 11:00	0.297	0.297	0.251	11.1	*260*	10.6	8.5		
10/22/2009 11:15	0.296	0.296	0.248	11.2	*278*	10.6	8.5		
10/22/2009 11:30	0.295	0.295	0.245	11.3	*258*	10.6	8.5		11:31
10/22/2009 11:45	0.295	0.295	0.245	11.4	*270*	10.5	8.5		
10/22/2009 12:00	0.298	0.298	0.254	11.5	*260*	10.5	8.5		
10/22/2009 12:15	0.297	0.297	0.251	11.6	*246*	10.5	8.5		
10/22/2009 12:30	0.295	0.295	0.245	11.8	*230*	10.4	8.5		
10/22/2009 12:45	0.294	0.294	0.242	11.9	*230*	10.4	8.5		
10/22/2009 13:00	0.291	0.291	0.234	12.1	*224*	10.3	8.5		
10/22/2009 13:15	0.298	0.298	0.254	12.3	*222*	10.3	8.5		
10/22/2009 13:30	0.294	0.294	0.242	12.4	*240*	10.2	8.5		
10/22/2009 13:45	0.292	0.292	0.236	12.5	*234*	10.2	8.5		
10/22/2009 14:00	0.291	0.291	0.234	12.6	*230*	10.2	8.5		
10/22/2009 14:15	0.293	0.293	0.239	12.7	*218*	10.1	8.5		
10/22/2009 14:30	0.293	0.293	0.239	12.8	*218*	10.1	8.5		
10/22/2009 14:45	0.292	0.292	0.236	12.9	*208*	10.1	8.5		
10/22/2009 15:00	0.293	0.293	0.239	13	*206*	10.1	8.5		
10/22/2009 15:15	0.293	0.293	0.239	13	*210*	10.1	8.5		
10/22/2009 15:30	0.298	0.298	0.254	13	*208*	10	8.5		
10/22/2009 15:45	0.294	0.294	0.242	13.1	*214*	10	8.5		
10/22/2009 16:00	0.293	0.293	0.239	13.1	*206*	10	8.5		
10/22/2009 16:15	0.295	0.295	0.245	13.1	*202*	10	8.5		
10/22/2009 16:30	0.298	0.298	0.254	13	*208*	10	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/22/2009 16:45	0.298	0.298	0.254	13	*208*	10	8.5		
10/22/2009 17:00	0.292	0.292	0.236	12.9	*208*	10	8.5		
10/22/2009 17:15	0.294	0.294	0.242	12.9	*208*	10	8.5		
10/22/2009 17:30	0.296	0.296	0.248	12.8	*204*	10	8.5		
10/22/2009 17:45	0.295	0.295	0.245	12.8	*206*	10	8.5		
10/22/2009 18:00	0.296	0.296	0.248	12.7	*200*	10	8.5		
10/22/2009 18:15	0.297	0.297	0.251	12.7	*200*	10	8.5		
10/22/2009 18:30	0.298	0.298	0.254	12.6	*196*	10	8.5		
10/22/2009 18:45	0.298	0.298	0.254	12.6	*194*	10.1	8.5		
10/22/2009 19:00	0.296	0.296	0.248	12.5	*192*	10	8.5		
10/22/2009 19:15	0.297	0.297	0.251	12.5	*202*	10	8.5		
10/22/2009 19:30	0.296	0.296	0.248	12.4	*200*	10.1	8.5		
10/22/2009 19:45	0.296	0.296	0.248	12.4	*196*	10.1	8.5		
10/22/2009 20:00	0.296	0.296	0.248	12.4	*194*	10.1	8.5		
10/22/2009 20:15	0.297	0.297	0.251	12.4	*194*	10.1	8.5		
10/22/2009 20:30	0.296	0.296	0.248	12.3	*192*	10.1	8.5		
10/22/2009 20:45	0.294	0.294	0.242	12.3	*188*	10.1	8.5		
10/22/2009 21:00	0.297	0.297	0.251	12.3	*196*	10.1	8.5		
10/22/2009 21:15	0.297	0.297	0.251	12.3	*198*	10.1	8.5		
10/22/2009 21:30	0.296	0.296	0.248	12.2	*192*	10.1	8.5		
10/22/2009 21:45	0.295	0.295	0.245	12.2	*188*	10.1	8.5		
10/22/2009 22:00	0.298	0.298	0.254	12.2	*188*	10.2	8.5		
10/22/2009 22:15	0.298	0.298	0.254	12.2	*186*	10.1	8.5		
10/22/2009 22:30	0.296	0.296	0.248	12.2	*184*	10.1	8.5		
10/22/2009 22:45	0.296	0.296	0.248	12.2	*182*	10.1	8.5		
10/22/2009 23:00	0.295	0.295	0.245	12.3	*180*	10.1	8.5		
10/22/2009 23:15	0.296	0.296	0.248	12.3	*178*	10.1	8.5		
10/22/2009 23:30	0.296	0.296	0.248	12.3	*176*	10.1	8.5		
10/22/2009 23:45	0.293	0.293	0.239	12.4	*196*	10.1	8.5		
10/23/2009 0:00	0.297	0.297	0.251	12.4	*194*	10.1	8.5		
10/23/2009 0:15	0.295	0.295	0.245	12.4	*196*	10.1	8.5		
10/23/2009 0:30	0.298	0.298	0.254	12.4	*192*	10.1	8.5		
10/23/2009 0:45	0.298	0.298	0.254	12.5	*190*	10	8.5		
10/23/2009 1:00	0.298	0.298	0.254	12.5	*188*	10	8.5		
10/23/2009 1:15	0.298	0.298	0.254	12.5	*182*	10	8.5		
10/23/2009 1:30	0.299	0.299	0.257	12.6	*180*	10	8.5		
10/23/2009 1:45	0.298	0.298	0.254	12.6	*178*	10	8.5		
10/23/2009 2:00	0.297	0.297	0.251	12.6	*174*	10	8.5		
10/23/2009 2:15	0.3	0.3	0.260	12.6	*172*	10	8.5		
10/23/2009 2:30	0.298	0.298	0.254	12.7	*170*	10	8.5		
10/23/2009 2:45	0.297	0.297	0.251	12.7	*168*	10	8.5		
10/23/2009 3:00	0.298	0.298	0.254	12.7	*186*	9.9	8.5		
10/23/2009 3:15	0.299	0.299	0.257	12.8	*180*	9.9	8.5		
10/23/2009 3:30	0.297	0.297	0.251	12.8	*178*	9.9	8.5		
10/23/2009 3:45	0.298	0.298	0.254	12.8	*172*	9.9	8.5		
10/23/2009 4:00	0.3	0.3	0.260	12.9	*168*	9.9	8.5		
10/23/2009 4:15	0.295	0.295	0.245	12.9	*196*	9.9	8.5		
10/23/2009 4:30	0.3	0.3	0.260	12.9	*192*	9.9	8.5		
10/23/2009 4:45	0.298	0.298	0.254	13	*190*	9.9	8.5		
10/23/2009 5:00	0.298	0.298	0.254	13	*202*	9.9	8.5		
10/23/2009 5:15	0.299	0.299	0.257	13	*190*	9.9	8.5		
10/23/2009 5:30	0.298	0.298	0.254	13.1	*202*	9.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled	
10/23/2009 5:45	0.297	0.297	0.251	13.1	*198*	9.8	8.5			
10/23/2009 6:00	0.294	0.294	0.242	13.2	*194*	9.9	8.5			
10/23/2009 6:15	0.294	0.294	0.242	13.2	*194*	9.8	8.5			
10/23/2009 6:30	0.295	0.295	0.245	13.2	*190*	9.8	8.5			
10/23/2009 6:45	0.293	0.293	0.239	13.3	*198*	9.8	8.5			
10/23/2009 7:00	0.293	0.293	0.239	13.4	*196*	9.8	8.5			
10/23/2009 7:15	0.296	0.296	0.248	13.4	*196*	9.8	8.5			
10/23/2009 7:30	0.296	0.296	0.248	13.4	*200*	9.8	8.5			
10/23/2009 7:45	0.292	0.292	0.236	13.5	*190*	9.8	8.5			
10/23/2009 8:00	0.296	0.296	0.248	13.6	*198*	9.8	8.5			
10/23/2009 8:15	0.289	0.289	0.228	13.7	*200*	9.8	8.5			
10/23/2009 8:30	0.297	0.297	0.251	13.8	*202*	9.7	8.5			
10/23/2009 8:45	0.296	0.296	0.248	13.8	*200*	9.7	8.5			
10/23/2009 9:00	0.294	0.294	0.242	13.8	*204*	9.7	8.5			
10/23/2009 9:15	0.296	0.296	0.248	13.9	*202*	9.7	8.5			
10/23/2009 9:30	0.298	0.298	0.254	13.9	*196*	9.6	8.5			
10/23/2009 9:45	0.303	0.303	0.269	14	*212*	9.6	8.5			
10/23/2009 10:00	0.301	0.301	0.263	14	*202*	9.6	8.5			
10/23/2009 10:15	0.306	0.306	0.278	14.1	*208*	9.6	8.5			
10/23/2009 10:30	0.307	0.307	0.282	14.2	*282*	9.6	8.5			
10/23/2009 10:45	0.313	0.313	0.302	14.3	*232*	9.6	8.5			
10/23/2009 11:00	0.32	0.32	0.327		***215***			* (20)		
10/23/2009 11:15	0.328	0.328	0.359	14.4	*198*	9.6	8.5	* (21)		
10/23/2009 11:30	0.331	0.331	0.372	14.5	*320*	9.5	8.5			11:31
10/23/2009 11:45	0.35	0.35	0.464	14.6	328	9.5	8.5			
10/23/2009 12:00	0.363	0.363	0.540	14.6	332	9.5	8.5			
10/23/2009 12:15	0.364	0.364	0.546	14.6	340	9.5	8.5			
10/23/2009 12:30	0.363	0.363	0.540	14.6	338	9.5	8.5			
10/23/2009 12:45	0.365	0.365	0.553	14.6	332	9.5	8.5			
10/23/2009 13:00	0.358	0.358	0.509	14.6	330	9.5	8.5			
10/23/2009 13:15	0.364	0.364	0.546	14.6	328	9.5	8.5			
10/23/2009 13:30	0.362	0.362	0.534	14.6	324	9.4	8.5			
10/23/2009 13:45	0.356	0.356	0.498	14.7	318	9.4	8.5			
10/23/2009 14:00	0.353	0.353	0.481	14.7	308	9.4	8.5			
10/23/2009 14:15	0.348	0.348	0.454	14.7	304	9.4	8.5			
10/23/2009 14:30	0.348	0.348	0.454	14.7	300	9.4	8.5			
10/23/2009 14:45	0.344	0.344	0.433	14.7	300	9.4	8.5			
10/23/2009 15:00	0.344	0.344	0.433	14.8	300	9.4	8.5			
10/23/2009 15:15	0.342	0.342	0.423	14.8	302	9.4	8.5			
10/23/2009 15:30	0.337	0.337	0.399	14.8	302	9.4	8.5			
10/23/2009 15:45	0.336	0.336	0.394	14.9	306	9.4	8.5			
10/23/2009 16:00	0.336	0.336	0.394	14.9	306	9.4	8.5			
10/23/2009 16:15	0.338	0.338	0.404	14.9	306	9.3	8.5			
10/23/2009 16:30	0.339	0.339	0.408	15	310	9.3	8.5			
10/23/2009 16:45	0.335	0.335	0.390	15	312	9.3	8.5			
10/23/2009 17:00	0.337	0.337	0.399	15	314	9.4	8.5			
10/23/2009 17:15	0.339	0.339	0.408	15	314	9.3	8.5			
10/23/2009 17:30	0.354	0.354	0.486	15.1	314	9.3	8.5			
10/23/2009 17:45	0.338	0.338	0.404	15.1	318	9.3	8.5			
10/23/2009 18:00	0.337	0.337	0.399	15.1	318	9.3	8.5			
10/23/2009 18:15	0.337	0.337	0.399	15.1	320	9.3	8.5			
10/23/2009 18:30	0.336	0.336	0.394	15.1	320	9.3	8.5			

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/23/2009 18:45	0.336	0.336	0.394	15.1	320	9.3	8.5		
10/23/2009 19:00	0.328	0.328	0.359	15.1	318	9.3	8.5		
10/23/2009 19:15	0.331	0.331	0.372	15.1	318	9.3	8.5		
10/23/2009 19:30	0.33	0.33	0.368	15.1	320	9.3	8.5		
10/23/2009 19:45	0.329	0.329	0.364	15.1	320	9.3	8.5		
10/23/2009 20:00	0.33	0.33	0.368	15.2	322	9.3	8.5		
10/23/2009 20:15	0.328	0.328	0.359	15.2	322	9.3	8.5		
10/23/2009 20:30	0.328	0.328	0.359	15.2	324	9.3	8.5		
10/23/2009 20:45	0.326	0.326	0.351	15.3	324	9.3	8.5		
10/23/2009 21:00	0.325	0.325	0.347	15.2	324	9.3	8.5		
10/23/2009 21:15	0.323	0.323	0.339	15.2	322	9.2	8.5		
10/23/2009 21:30	0.327	0.327	0.355	15.2	322	9.3	8.5		
10/23/2009 21:45	0.326	0.326	0.351	15.1	324	9.3	8.5		
10/23/2009 22:00	0.328	0.328	0.359	15.1	324	9.3	8.5		
10/23/2009 22:15	0.322	0.322	0.335	15.1	324	9.3	8.4		
10/23/2009 22:30	0.322	0.322	0.335	15	324	9.3	8.4		
10/23/2009 22:45	0.322	0.322	0.335	15	326	9.3	8.4		
10/23/2009 23:00	0.322	0.322	0.335	15	324	9.3	8.4		
10/23/2009 23:15	0.322	0.322	0.335	14.9	324	9.3	8.4		
10/23/2009 23:30	0.324	0.324	0.343	14.9	324	9.3	8.4		
10/23/2009 23:45	0.322	0.322	0.335	14.9	326	9.3	8.4		
10/24/2009 0:00	0.323	0.323	0.339	14.9	324	9.3	8.4		
10/24/2009 0:15	0.322	0.322	0.335	14.9	324	9.3	8.4		
10/24/2009 0:30	0.322	0.322	0.335	14.8	326	9.3	8.4		
10/24/2009 0:45	0.326	0.326	0.351	14.8	328	9.4	8.4		
10/24/2009 1:00	0.323	0.323	0.339	14.8	328	9.4	8.5		
10/24/2009 1:15	0.318	0.318	0.320	14.8	328	9.4	8.5		
10/24/2009 1:30	0.32	0.32	0.327	14.7	328	9.4	8.5		
10/24/2009 1:45	0.322	0.322	0.335	14.7	330	9.4	8.5		
10/24/2009 2:00	0.32	0.32	0.327	14.6	328	9.4	8.5		
10/24/2009 2:15	0.32	0.32	0.327	14.6	330	9.4	8.5		
10/24/2009 2:30	0.319	0.319	0.324	14.5	330	9.4	8.5		
10/24/2009 2:45	0.317	0.317	0.316	14.5	330	9.4	8.5		
10/24/2009 3:00	0.317	0.317	0.316	14.4	330	9.4	8.5		
10/24/2009 3:15	0.315	0.315	0.309	14.3	330	9.5	8.5		
10/24/2009 3:30	0.316	0.316	0.313	14.3	330	9.5	8.5		
10/24/2009 3:45	0.316	0.316	0.313	14.2	330	9.5	8.5		
10/24/2009 4:00	0.317	0.317	0.316	14.2	330	9.5	8.5		
10/24/2009 4:15	0.315	0.315	0.309	14.1	330	9.5	8.5		
10/24/2009 4:30	0.315	0.315	0.309	14.1	330	9.6	8.5		
10/24/2009 4:45	0.314	0.314	0.305	14	332	9.6	8.5		
10/24/2009 5:00	0.315	0.315	0.309	14	332	9.6	8.5		
10/24/2009 5:15	0.315	0.315	0.309	13.9	332	9.6	8.5		
10/24/2009 5:30	0.317	0.317	0.316	13.8	332	9.6	8.5		
10/24/2009 5:45	0.316	0.316	0.313	13.8	332	9.6	8.5		
10/24/2009 6:00	0.317	0.317	0.316	13.7	332	9.7	8.5		
10/24/2009 6:15	0.315	0.315	0.309	13.7	332	9.6	8.5		
10/24/2009 6:30	0.316	0.316	0.313	13.6	334	9.7	8.5		
10/24/2009 6:45	0.317	0.317	0.316	13.6	334	9.7	8.5		
10/24/2009 7:00	0.317	0.317	0.316	13.5	334	9.7	8.5		
10/24/2009 7:15	0.312	0.312	0.298	13.5	334	9.7	8.5		
10/24/2009 7:30	0.313	0.313	0.302	13.4	336	9.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/24/2009 7:45	0.312	0.312	0.298	13.3	336	9.7	8.5		
10/24/2009 8:00	0.314	0.314	0.305	13.3	334	9.8	8.5		
10/24/2009 8:15	0.315	0.315	0.309	13.3	334	9.8	8.5		
10/24/2009 8:30	0.313	0.313	0.302	13.2	334	9.8	8.5		
10/24/2009 8:45	0.313	0.313	0.302	13.2	334	9.8	8.5		
10/24/2009 9:00	0.311	0.311	0.295	13.1	336	9.8	8.5		
10/24/2009 9:15	0.313	0.313	0.302	13.1	338	9.9	8.5		
10/24/2009 9:30	0.313	0.313	0.302	13.1	338	9.9	8.5		
10/24/2009 9:45	0.313	0.313	0.302	13	338	9.9	8.5		
10/24/2009 10:00	0.312	0.312	0.298	13	338	9.9	8.5		
10/24/2009 10:15	0.31	0.31	0.292	12.9	336	9.9	8.5		
10/24/2009 10:30	0.309	0.309	0.288	12.9	338	9.9	8.5		
10/24/2009 10:45	0.311	0.311	0.295	12.9	338	10	8.5		
10/24/2009 11:00	0.315	0.315	0.309	12.9	340	10	8.5		
10/24/2009 11:15	0.311	0.311	0.295	12.9	338	10	8.5		
10/24/2009 11:30	0.311	0.311	0.295	12.9	340	10	8.5		11:31
10/24/2009 11:45	0.312	0.312	0.298	12.9	340	10	8.5		
10/24/2009 12:00	0.312	0.312	0.298	12.9	338	10	8.5		
10/24/2009 12:15	0.312	0.312	0.298	13	340	10	8.5		
10/24/2009 12:30	0.312	0.312	0.298	13	340	10	8.5		
10/24/2009 12:45	0.312	0.312	0.298	12.9	342	9.9	8.5		
10/24/2009 13:00	0.31	0.31	0.292	12.9	342	9.9	8.5		
10/24/2009 13:15	0.31	0.31	0.292	12.9	342	10	8.5		
10/24/2009 13:30	0.308	0.308	0.285	12.9	344	10	8.5		
10/24/2009 13:45	0.311	0.311	0.295	12.9	342	10	8.5		
10/24/2009 14:00	0.302	0.302	0.266	12.8	344	10	8.5		
10/24/2009 14:15	0.305	0.305	0.275	12.8	344	10	8.5		
10/24/2009 14:30	0.304	0.304	0.272	12.7	344	10	8.5		
10/24/2009 14:45	0.304	0.304	0.272	12.7	344	10	8.5		
10/24/2009 15:00	0.305	0.305	0.275	12.6	344	10.1	8.5		
10/24/2009 15:15	0.303	0.303	0.269	12.6	344	10	8.5		
10/24/2009 15:30	0.304	0.304	0.272	12.5	344	10.1	8.5		
10/24/2009 15:45	0.301	0.301	0.263	12.5	344	10.1	8.5		
10/24/2009 16:00	0.303	0.303	0.269	12.4	344	10.1	8.5		
10/24/2009 16:15	0.302	0.302	0.266	12.4	344	10.1	8.5		
10/24/2009 16:30	0.302	0.302	0.266	12.3	346	10.1	8.5		
10/24/2009 16:45	0.302	0.302	0.266	12.3	346	10.1	8.5		
10/24/2009 17:00	0.302	0.302	0.266	12.2	346	10.1	8.5		
10/24/2009 17:15	0.303	0.303	0.269	12.1	346	10.1	8.5		
10/24/2009 17:30	0.3	0.3	0.260	12	346	10.2	8.5		
10/24/2009 17:45	0.302	0.302	0.266	11.9	346	10.1	8.5		
10/24/2009 18:00	0.301	0.301	0.263	11.8	346	10.2	8.5		
10/24/2009 18:15	0.3	0.3	0.260	11.7	348	10.2	8.5		
10/24/2009 18:30	0.303	0.303	0.269	11.6	348	10.2	8.5		
10/24/2009 18:45	0.299	0.299	0.257	11.5	348	10.2	8.5		
10/24/2009 19:00	0.302	0.302	0.266	11.4	348	10.3	8.5		
10/24/2009 19:15	0.302	0.302	0.266	11.4	348	10.3	8.5		
10/24/2009 19:30	0.302	0.302	0.266	11.3	348	10.3	8.5		
10/24/2009 19:45	0.3	0.3	0.260	11.2	348	10.4	8.5		
10/24/2009 20:00	0.299	0.299	0.257	11.1	348	10.4	8.5		
10/24/2009 20:15	0.299	0.299	0.257	11	348	10.4	8.5		
10/24/2009 20:30	0.301	0.301	0.263	10.9	348	10.4	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/24/2009 20:45	0.299	0.299	0.257	10.8	344	10.5	8.5		
10/24/2009 21:00	0.298	0.298	0.254	10.7	346	10.5	8.5		
10/24/2009 21:15	0.297	0.297	0.251	10.7	344	10.5	8.5		
10/24/2009 21:30	0.298	0.298	0.254	10.6	340	10.5	8.5		
10/24/2009 21:45	0.297	0.297	0.251	10.5	*338*	10.5	8.5		
10/24/2009 22:00	0.298	0.298	0.254	10.5	*336*	10.6	8.5		
10/24/2009 22:15	0.298	0.298	0.254	10.4	*332*	10.6	8.5		
10/24/2009 22:30	0.295	0.295	0.245	10.4	*328*	10.6	8.5		
10/24/2009 22:45	0.297	0.297	0.251	10.3	*326*	10.6	8.5		
10/24/2009 23:00	0.296	0.296	0.248	10.3	*320*	10.7	8.5		
10/24/2009 23:15	0.296	0.296	0.248	10.2	*320*	10.6	8.5		
10/24/2009 23:30	0.295	0.295	0.245	10.2	*316*	10.7	8.5		
10/24/2009 23:45	0.294	0.294	0.242	10.1	*314*	10.7	8.5		
10/25/2009 0:00	0.295	0.295	0.245	10	*294*	10.7	8.5		
10/25/2009 0:15	0.294	0.294	0.242	10	*276*	10.8	8.5		
10/25/2009 0:30	0.294	0.294	0.242	9.9	*302*	10.7	8.5		
10/25/2009 0:45	0.293	0.293	0.239	9.9	*292*	10.7	8.5		
10/25/2009 1:00	0.293	0.293	0.239	9.8	*270*	10.8	8.5		
10/25/2009 1:15	0.294	0.294	0.242	9.8	*276*	10.8	8.5		
10/25/2009 1:30	0.292	0.292	0.236	9.7	*288*	10.8	8.5		
10/25/2009 1:45	0.293	0.293	0.239	9.7	*278*	10.8	8.5		
10/25/2009 2:00	0.292	0.292	0.236	9.6	*280*	10.8	8.5		
10/25/2009 2:15	0.292	0.292	0.236	9.6	*250*	10.8	8.5		
10/25/2009 2:30	0.292	0.292	0.236	9.5	*264*	10.8	8.5		
10/25/2009 2:45	0.296	0.296	0.248	9.5	*258*	10.9	8.5		
10/25/2009 3:00	0.291	0.291	0.234	9.4	*242*	10.9	8.5		
10/25/2009 3:15	0.293	0.293	0.239	9.4	*246*	10.9	8.5		
10/25/2009 3:30	0.293	0.293	0.239	9.3	*230*	10.9	8.5		
10/25/2009 3:45	0.291	0.291	0.234	9.3	*234*	10.9	8.5		
10/25/2009 4:00	0.293	0.293	0.239	9.3	*226*	10.9	8.5		
10/25/2009 4:15	0.293	0.293	0.239	9.2	*222*	11	8.5		
10/25/2009 4:30	0.293	0.293	0.239	9.2	*228*	11	8.5		
10/25/2009 4:45	0.291	0.291	0.234	9.2	*220*	11	8.5		
10/25/2009 5:00	0.293	0.293	0.239	9.1	*208*	11	8.5		
10/25/2009 5:15	0.292	0.292	0.236	9.1	*204*	11	8.5		
10/25/2009 5:30	0.292	0.292	0.236	9.1	*200*	11.1	8.5		
10/25/2009 5:45	0.293	0.293	0.239	9	*228*	11	8.5		
10/25/2009 6:00	0.291	0.291	0.234	9	*228*	11	8.5		
10/25/2009 6:15	0.293	0.293	0.239	8.9	*218*	11	8.5		
10/25/2009 6:30	0.292	0.292	0.236	8.9	*218*	11.1	8.5		
10/25/2009 6:45	0.291	0.291	0.234	8.8	*216*	11.1	8.5		
10/25/2009 7:00	0.292	0.292	0.236	8.8	*212*	11.1	8.5		
10/25/2009 7:15	0.29	0.29	0.231	8.8	*216*	11.1	8.5		
10/25/2009 7:30	0.291	0.291	0.234	8.7	*208*	11.1	8.5		
10/25/2009 7:45	0.29	0.29	0.231	8.7	*210*	11.1	8.5		
10/25/2009 8:00	0.291	0.291	0.234	8.7	*204*	11.2	8.5		
10/25/2009 8:15	0.291	0.291	0.234	8.7	*208*	11.2	8.5		
10/25/2009 8:30	0.291	0.291	0.234	8.7	*204*	11.3	8.5		
10/25/2009 8:45	0.291	0.291	0.234	8.7	*206*	11.2	8.5		
10/25/2009 9:00	0.292	0.292	0.236	8.7	*210*	11.2	8.5		
10/25/2009 9:15	0.29	0.29	0.231	8.8	*204*	11.2	8.5		
10/25/2009 9:30	0.291	0.291	0.234	8.9	*204*	11.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/25/2009 9:45	0.291	0.291	0.234	9.1	*206*	11.2	8.5		
10/25/2009 10:00	0.291	0.291	0.234	9.1	*202*	11.2	8.5		
10/25/2009 10:15	0.291	0.291	0.234	9.2	*206*	11.1	8.5		
10/25/2009 10:30	0.291	0.291	0.234	9.3	*208*	11.1	8.5		
10/25/2009 10:45	0.29	0.29	0.231	9.4	*208*	11.1	8.5		
10/25/2009 11:00	0.289	0.289	0.228	9.5	*206*	11	8.5		
10/25/2009 11:15	0.291	0.291	0.234	9.5	*204*	11	8.5		
10/25/2009 11:30	0.289	0.289	0.228	9.6	*204*	11	8.5		11:31
10/25/2009 11:45	0.29	0.29	0.231	9.7	*202*	11	8.5		
10/25/2009 12:00	0.289	0.289	0.228	9.8	*200*	11	8.5		
10/25/2009 12:15	0.287	0.287	0.223	10	*200*	10.9	8.5		
10/25/2009 12:30	0.291	0.291	0.234	10.1	*212*	10.8	8.5		
10/25/2009 12:45	0.288	0.288	0.226	10.2	*210*	10.8	8.5		
10/25/2009 13:00	0.288	0.288	0.226	10.3	*208*	10.8	8.5		
10/25/2009 13:15	0.289	0.289	0.228	10.4	*206*	10.7	8.5		
10/25/2009 13:30	0.287	0.287	0.223	10.5	*206*	10.7	8.5		
10/25/2009 13:45	0.289	0.289	0.228	10.6	*200*	10.6	8.5		
10/25/2009 14:00	0.287	0.287	0.223	10.6	*200*	10.6	8.5		
10/25/2009 14:15	0.287	0.287	0.223	10.7	*198*	10.6	8.5		
10/25/2009 14:30	0.286	0.286	0.221	10.8	*202*	10.6	8.5		
10/25/2009 14:45	0.288	0.288	0.226	10.9	*204*	10.6	8.5		
10/25/2009 15:00	0.298	0.298	0.254	10.9	*202*	10.5	8.5		
10/25/2009 15:15	0.297	0.297	0.251	11	*198*	10.5	8.5		
10/25/2009 15:30	0.301	0.301	0.263	11.1	*206*	10.5	8.5		
10/25/2009 15:45	0.301	0.301	0.263	11.1	*194*	10.5	8.5		
10/25/2009 16:00	0.299	0.299	0.257	11.1	*202*	10.4	8.5		
10/25/2009 16:15	0.301	0.301	0.263	11.2	*200*	10.4	8.5		
10/25/2009 16:30	0.301	0.301	0.263	11.2	*202*	10.4	8.5		
10/25/2009 16:45	0.3	0.3	0.260	11.2	*198*	10.4	8.5		
10/25/2009 17:00	0.3	0.3	0.260	11.1	*194*	10.4	8.5		
10/25/2009 17:15	0.3	0.3	0.260	11.1	*206*	10.4	8.5		
10/25/2009 17:30	0.301	0.301	0.263	11	*208*	10.4	8.5		
10/25/2009 17:45	0.297	0.297	0.251	11	*206*	10.5	8.5		
10/25/2009 18:00	0.296	0.296	0.248	10.9	*202*	10.5	8.5		
10/25/2009 18:15	0.299	0.299	0.257	10.9	*202*	10.5	8.5		
10/25/2009 18:30	0.297	0.297	0.251	10.8	*210*	10.5	8.5		
10/25/2009 18:45	0.296	0.296	0.248	10.7	*208*	10.5	8.5		
10/25/2009 19:00	0.297	0.297	0.251	10.6	*206*	10.5	8.5		
10/25/2009 19:15	0.296	0.296	0.248	10.6	*206*	10.6	8.5		
10/25/2009 19:30	0.297	0.297	0.251	10.5	*202*	10.6	8.5		
10/25/2009 19:45	0.294	0.294	0.242	10.4	*200*	10.6	8.5		
10/25/2009 20:00	0.296	0.296	0.248	10.3	*196*	10.6	8.5		
10/25/2009 20:15	0.296	0.296	0.248	10.3	*204*	10.6	8.5		
10/25/2009 20:30	0.294	0.294	0.242	10.2	*202*	10.6	8.5		
10/25/2009 20:45	0.295	0.295	0.245	10.1	*202*	10.7	8.5		
10/25/2009 21:00	0.294	0.294	0.242	10	*202*	10.7	8.5		
10/25/2009 21:15	0.295	0.295	0.245	9.9	*200*	10.7	8.5		
10/25/2009 21:30	0.294	0.294	0.242	9.9	*196*	10.8	8.5		
10/25/2009 21:45	0.295	0.295	0.245	9.8	*214*	10.8	8.5		
10/25/2009 22:00	0.296	0.296	0.248	9.7	*210*	10.8	8.5		
10/25/2009 22:15	0.295	0.295	0.245	9.6	*210*	10.8	8.5		
10/25/2009 22:30	0.293	0.293	0.239	9.6	*208*	10.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/25/2009 22:45	0.293	0.293	0.239	9.5	*206*	10.9	8.5		
10/25/2009 23:00	0.292	0.292	0.236	9.4	*206*	10.9	8.5		
10/25/2009 23:15	0.291	0.291	0.234	9.3	*204*	10.9	8.5		
10/25/2009 23:30	0.291	0.291	0.234	9.3	*210*	10.9	8.5		
10/25/2009 23:45	0.293	0.293	0.239	9.2	*208*	10.9	8.5		
10/26/2009 0:00	0.292	0.292	0.236	9.1	*208*	11	8.5		
10/26/2009 0:15	0.296	0.296	0.248	9.1	*206*	11	8.5		
10/26/2009 0:30	0.293	0.293	0.239	9	*206*	11	8.5		
10/26/2009 0:45	0.295	0.295	0.245	9	*204*	11	8.5		
10/26/2009 1:00	0.294	0.294	0.242	8.9	*202*	11.1	8.5		
10/26/2009 1:15	0.293	0.293	0.239	8.8	*202*	11.1	8.5		
10/26/2009 1:30	0.294	0.294	0.242	8.8	*204*	11.1	8.5		
10/26/2009 1:45	0.293	0.293	0.239	8.7	*202*	11.1	8.5		
10/26/2009 2:00	0.289	0.289	0.228	8.7	*216*	11.1	8.5		
10/26/2009 2:15	0.293	0.293	0.239	8.6	*214*	11.1	8.5		
10/26/2009 2:30	0.292	0.292	0.236	8.6	*212*	11.1	8.5		
10/26/2009 2:45	0.294	0.294	0.242	8.5	*216*	11.1	8.5		
10/26/2009 3:00	0.292	0.292	0.236	8.5	*212*	11.1	8.5		
10/26/2009 3:15	0.292	0.292	0.236	8.4	*210*	11.2	8.5		
10/26/2009 3:30	0.293	0.293	0.239	8.4	*210*	11.2	8.5		
10/26/2009 3:45	0.293	0.293	0.239	8.3	*214*	11.2	8.5		
10/26/2009 4:00	0.293	0.293	0.239	8.3	*206*	11.2	8.5		
10/26/2009 4:15	0.293	0.293	0.239	8.2	*212*	11.3	8.5		
10/26/2009 4:30	0.292	0.292	0.236	8.2	*204*	11.2	8.5		
10/26/2009 4:45	0.293	0.293	0.239	8.1	*212*	11.2	8.5		
10/26/2009 5:00	0.291	0.291	0.234	8.1	*210*	11.3	8.5		
10/26/2009 5:15	0.293	0.293	0.239	8	*210*	11.3	8.5		
10/26/2009 5:30	0.292	0.292	0.236	8	*198*	11.4	8.5		
10/26/2009 5:45	0.293	0.293	0.239	8	*212*	11.3	8.5		
10/26/2009 6:00	0.293	0.293	0.239	7.9	*210*	11.4	8.5		
10/26/2009 6:15	0.292	0.292	0.236	7.9	*210*	11.4	8.5		
10/26/2009 6:30	0.292	0.292	0.236	7.8	*210*	11.4	8.5		
10/26/2009 6:45	0.293	0.293	0.239	7.8	*208*	11.4	8.5		
10/26/2009 7:00	0.292	0.292	0.236	7.8	*208*	11.4	8.5		
10/26/2009 7:15	0.292	0.292	0.236	7.7	*206*	11.5	8.5		
10/26/2009 7:30	0.293	0.293	0.239	7.7	*202*	11.5	8.5		
10/26/2009 7:45	0.291	0.291	0.234	7.7	*200*	11.5	8.5		
10/26/2009 8:00	0.293	0.293	0.239	7.7	*200*	11.5	8.5		
10/26/2009 8:15	0.293	0.293	0.239	7.7	*212*	11.5	8.5		
10/26/2009 8:30	0.293	0.293	0.239	7.8	*200*	11.5	8.5		
10/26/2009 8:45	0.293	0.293	0.239	7.9	*198*	11.5	8.5		
10/26/2009 9:00	0.29	0.29	0.231	8	*196*	11.4	8.5		
10/26/2009 9:15	0.292	0.292	0.236	8.1	*190*	11.4	8.5		
10/26/2009 9:30	0.289	0.289	0.228	8.2	*200*	11.4	8.5		
10/26/2009 9:45	0.291	0.291	0.234	8.3	*220*	11.4	8.5		
10/26/2009 10:00	0.293	0.293	0.239	8.4	*216*	11.4	8.5		
10/26/2009 10:15	0.293	0.293	0.239	8.6	*218*	11.4	8.5		
10/26/2009 10:30	0.295	0.295	0.245	8.8	*214*	11.3	8.5		
10/26/2009 10:45	0.29	0.29	0.231	8.9	*230*	11.2	8.5		
10/26/2009 11:00	0.292	0.292	0.236	9.1	*224*	11.2	8.5		
10/26/2009 11:15	0.291	0.291	0.234	9.2	*228*	11.2	8.5		
10/26/2009 11:30	0.29	0.29	0.231	9.3	*220*	11.1	8.5		11:31

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/26/2009 11:45	0.289	0.289	0.228	9.4	*232*	11	8.5		
10/26/2009 12:00	0.292	0.292	0.236	9.5	*212*	11	8.5		
10/26/2009 12:15	0.29	0.29	0.231	9.7	*220*	11	8.5		
10/26/2009 12:30	0.288	0.288	0.226	9.9	*218*	10.9	8.5		
10/26/2009 12:45	0.29	0.29	0.231	10.1	*224*	10.8	8.5		
10/26/2009 13:00	0.289	0.289	0.228	10.4	*220*	10.8	8.5		
10/26/2009 13:15	0.292	0.292	0.236	10.6	*220*	10.8	8.5		
10/26/2009 13:30	0.29	0.29	0.231	10.7	*218*	10.7	8.6		
10/26/2009 13:45	0.29	0.29	0.231	10.8	*220*	10.7	8.6		
10/26/2009 14:00	0.289	0.289	0.228	10.9	*220*	10.6	8.6		
10/26/2009 14:15	0.29	0.29	0.231	11	*220*	10.6	8.6		
10/26/2009 14:30	0.29	0.29	0.231	11.1	*222*	10.5	8.6		
10/26/2009 14:45	0.291	0.291	0.234	11.2	*224*	10.5	8.6		
10/26/2009 15:00	0.291	0.291	0.234	11.3	*220*	10.5	8.6		
10/26/2009 15:15	0.289	0.289	0.228	11.3	*224*	10.4	8.6		
10/26/2009 15:30	0.29	0.29	0.231	11.4	*226*	10.5	8.6		
10/26/2009 15:45	0.29	0.29	0.231	11.4	*224*	10.4	8.6		
10/26/2009 16:00	0.289	0.289	0.228	11.5	*222*	10.4	8.6		
10/26/2009 16:15	0.289	0.289	0.228	11.5	*222*	10.4	8.6		
10/26/2009 16:30	0.291	0.291	0.234	11.5	*222*	10.4	8.6		
10/26/2009 16:45	0.289	0.289	0.228	11.5	*220*	10.3	8.6		
10/26/2009 17:00	0.289	0.289	0.228	11.5	*218*	10.4	8.5		
10/26/2009 17:15	0.287	0.287	0.223	11.5	*220*	10.4	8.5		
10/26/2009 17:30	0.287	0.287	0.223	11.5	*216*	10.3	8.5		
10/26/2009 17:45	0.285	0.285	0.218	11.4	*214*	10.3	8.5		
10/26/2009 18:00	0.286	0.286	0.221	11.4	*210*	10.3	8.5		
10/26/2009 18:15	0.285	0.285	0.218	11.3	*210*	10.4	8.5		
10/26/2009 18:30	0.283	0.283	0.213	11.3	*208*	10.3	8.5		
10/26/2009 18:45	0.286	0.286	0.221	11.3	*216*	10.3	8.5		
10/26/2009 19:00	0.284	0.284	0.215	11.2	*214*	10.4	8.5		
10/26/2009 19:15	0.285	0.285	0.218	11.2	*212*	10.4	8.5		
10/26/2009 19:30	0.287	0.287	0.223	11.2	*216*	10.4	8.5		
10/26/2009 19:45	0.285	0.285	0.218	11.2	*220*	10.4	8.5		
10/26/2009 20:00	0.286	0.286	0.221	11.1	*220*	10.4	8.5		
10/26/2009 20:15	0.289	0.289	0.228	11.1	*218*	10.4	8.5		
10/26/2009 20:30	0.289	0.289	0.228	11.1	*216*	10.4	8.5		
10/26/2009 20:45	0.289	0.289	0.228	11.1	*214*	10.4	8.5		
10/26/2009 21:00	0.29	0.29	0.231	11.1	*218*	10.4	8.5		
10/26/2009 21:15	0.289	0.289	0.228	11.1	*224*	10.4	8.5		
10/26/2009 21:30	0.291	0.291	0.234	11.1	*222*	10.4	8.5		
10/26/2009 21:45	0.289	0.289	0.228	11	*220*	10.4	8.5		
10/26/2009 22:00	0.289	0.289	0.228	11	*218*	10.4	8.5		
10/26/2009 22:15	0.289	0.289	0.228	11	*218*	10.4	8.5		
10/26/2009 22:30	0.29	0.29	0.231	11	*220*	10.4	8.5		
10/26/2009 22:45	0.289	0.289	0.228	11	*218*	10.4	8.5		
10/26/2009 23:00	0.291	0.291	0.234	11	*216*	10.4	8.5		
10/26/2009 23:15	0.288	0.288	0.226	11	*212*	10.4	8.5		
10/26/2009 23:30	0.29	0.29	0.231	11	*212*	10.5	8.5		
10/26/2009 23:45	0.288	0.288	0.226	11	*210*	10.4	8.5		
10/27/2009 0:00	0.289	0.289	0.228	11	*228*	10.4	8.5		
10/27/2009 0:15	0.291	0.291	0.234	11	*228*	10.4	8.5		
10/27/2009 0:30	0.289	0.289	0.228	11	*228*	10.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/27/2009 0:45	0.291	0.291	0.234	11	*222*	10.5	8.5		
10/27/2009 1:00	0.289	0.289	0.228	10.9	*220*	10.5	8.5		
10/27/2009 1:15	0.287	0.287	0.223	10.9	*220*	10.4	8.5		
10/27/2009 1:30	0.292	0.292	0.236	10.9	*218*	10.4	8.5		
10/27/2009 1:45	0.29	0.29	0.231	10.9	*216*	10.4	8.5		
10/27/2009 2:00	0.29	0.29	0.231	10.9	*226*	10.5	8.5		
10/27/2009 2:15	0.292	0.292	0.236	10.9	*224*	10.5	8.5		
10/27/2009 2:30	0.29	0.29	0.231	10.9	*224*	10.5	8.5		
10/27/2009 2:45	0.289	0.289	0.228	10.9	*224*	10.4	8.5		
10/27/2009 3:00	0.289	0.289	0.228	10.9	*222*	10.5	8.5		
10/27/2009 3:15	0.286	0.286	0.221	10.9	*218*	10.4	8.5		
10/27/2009 3:30	0.29	0.29	0.231	10.9	*218*	10.4	8.5		
10/27/2009 3:45	0.289	0.289	0.228	10.8	*216*	10.4	8.5		
10/27/2009 4:00	0.289	0.289	0.228	10.8	*214*	10.5	8.5		
10/27/2009 4:15	0.289	0.289	0.228	10.8	*212*	10.4	8.5		
10/27/2009 4:30	0.288	0.288	0.226	10.8	*220*	10.5	8.5		
10/27/2009 4:45	0.289	0.289	0.228	10.8	*222*	10.4	8.5		
10/27/2009 5:00	0.289	0.289	0.228	10.8	*220*	10.5	8.5		
10/27/2009 5:15	0.289	0.289	0.228	10.8	*218*	10.5	8.5		
10/27/2009 5:30	0.289	0.289	0.228	10.8	*220*	10.5	8.5		
10/27/2009 5:45	0.29	0.29	0.231	10.8	*220*	10.5	8.5		
10/27/2009 6:00	0.289	0.289	0.228	10.8	*214*	10.5	8.5		
10/27/2009 6:15	0.288	0.288	0.226	10.8	*214*	10.5	8.5		
10/27/2009 6:30	0.288	0.288	0.226	10.8	*222*	10.5	8.5		
10/27/2009 6:45	0.289	0.289	0.228	10.7	*222*	10.5	8.5		
10/27/2009 7:00	0.286	0.286	0.221	10.7	*218*	10.5	8.5		
10/27/2009 7:15	0.289	0.289	0.228	10.7	*216*	10.5	8.5		
10/27/2009 7:30	0.289	0.289	0.228	10.7	*216*	10.5	8.5		
10/27/2009 7:45	0.28	0.28	0.206	10.8	*218*	10.5	8.5		
10/27/2009 8:00	0.287	0.287	0.223	10.8	*220*	10.5	8.5		
10/27/2009 8:15	0.286	0.286	0.221	10.8	*218*	10.5	8.5		
10/27/2009 8:30	0.285	0.285	0.218	10.8	*218*	10.5	8.5		
10/27/2009 8:45	0.287	0.287	0.223	10.8	*216*	10.5	8.5		
10/27/2009 9:00	0.289	0.289	0.228	10.8	*216*	10.5	8.5		
10/27/2009 9:15	0.289	0.289	0.228	10.9	*214*	10.5	8.5		
10/27/2009 9:30	0.288	0.288	0.226	10.9	*212*	10.5	8.5		
10/27/2009 9:45	0.287	0.287	0.223	10.9	*212*	10.5	8.5		
10/27/2009 10:00	0.289	0.289	0.228	10.9	*212*	10.4	8.5		
10/27/2009 10:15	0.287	0.287	0.223	11	*216*	10.3	8.5		
10/27/2009 10:30	0.282	0.282	0.211	11.1	*210*	10.5	8.5		
10/27/2009 10:45	0.289	0.289	0.228	11.1	*208*	10.4	8.5		
10/27/2009 11:00	0.289	0.289	0.228	11.2	*208*	10.4	8.5		
10/27/2009 11:15	0.29	0.29	0.231	11.2	*206*	10.4	8.5		
10/27/2009 11:30	0.289	0.289	0.228	11.3	*206*	10.4	8.5		11:31
10/27/2009 11:45	0.29	0.29	0.231	11.4	*208*	10.4	8.5		
10/27/2009 12:00	0.289	0.289	0.228	11.5	*206*	10.3	8.5		
10/27/2009 12:15	0.288	0.288	0.226	11.5	*204*	10.3	8.5		
10/27/2009 12:30	0.29	0.29	0.231	11.5	*202*	10.3	8.5		
10/27/2009 12:45	0.29	0.29	0.231	11.5	*208*	10.3	8.5		
10/27/2009 13:00	0.292	0.292	0.236	11.6	*208*	10.3	8.5		
10/27/2009 13:15	0.292	0.292	0.236	11.6	*206*	10.2	8.5		
10/27/2009 13:30	0.293	0.293	0.239	11.6	*198*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/27/2009 13:45	0.296	0.296	0.248	11.6	*196*	10.2	8.5		
10/27/2009 14:00	0.291	0.291	0.234	11.7	*194*	10.2	8.5		
10/27/2009 14:15	0.298	0.298	0.254	11.7	*208*	10.2	8.5		
10/27/2009 14:30	0.302	0.302	0.266	11.7	*202*	10.1	8.5		
10/27/2009 14:45	0.302	0.302	0.266	11.7	*214*	10.1	8.5		
10/27/2009 15:00	0.303	0.303	0.269	11.7	*214*	10.1	8.5		
10/27/2009 15:15	0.305	0.305	0.275	11.8	*210*	10.1	8.5		
10/27/2009 15:30	0.306	0.306	0.278	11.8	*210*	10.1	8.5	* (22)	
10/27/2009 15:45	0.31	0.31	0.292	11.8	232	10.1	8.5		
10/27/2009 16:00	0.313	0.313	0.302	11.8	238	10.1	8.5		
10/27/2009 16:15	0.317	0.317	0.316	11.8	282	10.1	8.5		
10/27/2009 16:30	0.321	0.321	0.331	11.8	316	10.1	8.5		
10/27/2009 16:45	0.327	0.327	0.355	11.8	324	10.1	8.5		
10/27/2009 17:00	0.327	0.327	0.355	11.8	358	10.1	8.5		
10/27/2009 17:15	0.326	0.326	0.351	11.8	356	10.1	8.5		
10/27/2009 17:30	0.326	0.326	0.351	11.8	354	10	8.5		
10/27/2009 17:45	0.328	0.328	0.359	11.8	350	10.1	8.5		
10/27/2009 18:00	0.331	0.331	0.372	11.8	348	10	8.5		
10/27/2009 18:15	0.335	0.335	0.390	11.8	346	10	8.5		
10/27/2009 18:30	0.336	0.336	0.394	11.8	344	10	8.5		
10/27/2009 18:45	0.339	0.339	0.408	11.9	340	10	8.5		
10/27/2009 19:00	0.346	0.346	0.443	11.9	336	10.1	8.5		
10/27/2009 19:15	0.349	0.349	0.459	11.9	332	10	8.4		
10/27/2009 19:30	0.362	0.362	0.534	11.9	328	10	8.4		
10/27/2009 19:45	0.347	0.347	0.448	11.9	328	10	8.4		
10/27/2009 20:00	0.35	0.35	0.464	11.9	324	10.1	8.4		
10/27/2009 20:15	0.357	0.357	0.504	11.9	322	10	8.4		
10/27/2009 20:30	0.359	0.359	0.515	11.9	322	10	8.4		
10/27/2009 20:45	0.365	0.365	0.553	11.9	322	10	8.4		
10/27/2009 21:00	0.367	0.367	0.566	11.9	324	10	8.4		
10/27/2009 21:15	0.371	0.371	0.593	11.9	324	10	8.4		
10/27/2009 21:30	0.369	0.369	0.579	12	320	10.1	8.4		
10/27/2009 21:45	0.374	0.374	0.614	12	318	10	8.4		
10/27/2009 22:00	0.366	0.366	0.559	12	314	10	8.4		
10/27/2009 22:15	0.373	0.373	0.607	12	314	10	8.4		
10/27/2009 22:30	0.371	0.371	0.593	12.1	312	10	8.4		
10/27/2009 22:45	0.374	0.374	0.614	12.1	312	10	8.4		
10/27/2009 23:00	0.365	0.365	0.553	12.1	308	10	8.4		
10/27/2009 23:15	0.376	0.376	0.628	12.2	304	9.9	8.4		
10/27/2009 23:30	0.38	0.38	0.658	12.2	302	9.9	8.4		
10/27/2009 23:45	0.382	0.382	0.673	12.2	302	10	8.4		
10/28/2009 0:00	0.378	0.378	0.643	12.3	302	9.9	8.4		
10/28/2009 0:15	0.385	0.385	0.697	12.3	304	9.9	8.4		
10/28/2009 0:30	0.387	0.387	0.714	12.3	304	9.9	8.4		
10/28/2009 0:45	0.389	0.389	0.731	12.3	302	9.9	8.4		
10/28/2009 1:00	0.385	0.385	0.697	12.3	300	9.9	8.4		
10/28/2009 1:15	0.384	0.384	0.689	12.3	298	10	8.4		
10/28/2009 1:30	0.383	0.383	0.681	12.4	296	9.9	8.4		
10/28/2009 1:45	0.381	0.381	0.666	12.4	296	9.9	8.4		
10/28/2009 2:00	0.378	0.378	0.643	12.4	292	9.9	8.4		
10/28/2009 2:15	0.381	0.381	0.666	12.4	290	9.9	8.4		
10/28/2009 2:30	0.384	0.384	0.689	12.4	290	10	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/28/2009 2:45	0.378	0.378	0.643	12.4	286	9.9	8.4		
10/28/2009 3:00	0.377	0.377	0.635	12.4	286	9.9	8.4		
10/28/2009 3:15	0.375	0.375	0.621	12.4	286	9.9	8.4		
10/28/2009 3:30	0.373	0.373	0.607	12.4	286	9.9	8.4		
10/28/2009 3:45	0.375	0.375	0.621	12.4	284	9.9	8.4		
10/28/2009 4:00	0.368	0.368	0.572	12.4	284	10	8.4		
10/28/2009 4:15	0.368	0.368	0.572	12.4	284	9.9	8.4		
10/28/2009 4:30	0.365	0.365	0.553	12.4	284	9.9	8.4		
10/28/2009 4:45	0.367	0.367	0.566	12.4	282	9.9	8.4		
10/28/2009 5:00	0.369	0.369	0.579	12.4	280	10	8.4		
10/28/2009 5:15	0.367	0.367	0.566	12.4	282	9.9	8.4		
10/28/2009 5:30	0.366	0.366	0.559	12.4	280	9.9	8.4		
10/28/2009 5:45	0.372	0.372	0.600	12.4	282	9.9	8.4		
10/28/2009 6:00	0.368	0.368	0.572	12.4	282	9.9	8.4		
10/28/2009 6:15	0.368	0.368	0.572	12.4	280	9.9	8.4		
10/28/2009 6:30	0.367	0.367	0.566	12.4	280	10	8.4		
10/28/2009 6:45	0.368	0.368	0.572	12.4	280	9.9	8.4		
10/28/2009 7:00	0.374	0.374	0.614	12.4	280	9.9	8.4		
10/28/2009 7:15	0.367	0.367	0.566	12.4	280	10	8.4		
10/28/2009 7:30	0.369	0.369	0.579	12.4	280	10	8.4		
10/28/2009 7:45	0.37	0.37	0.586	12.4	280	10	8.4		
10/28/2009 8:00	0.369	0.369	0.579	12.4	278	10	8.4		
10/28/2009 8:15	0.371	0.371	0.593	12.4	278	10	8.4		
10/28/2009 8:30	0.374	0.374	0.614	12.4	276	10	8.4		
10/28/2009 8:45	0.377	0.377	0.635	12.5	278	9.9	8.4		
10/28/2009 9:00	0.37	0.37	0.586	12.5	278	9.9	8.4		
10/28/2009 9:15	0.369	0.369	0.579	12.6	278	9.9	8.4		
10/28/2009 9:30	0.365	0.365	0.553	12.6	278	9.9	8.4		
10/28/2009 9:45	0.367	0.367	0.566	12.7	278	9.9	8.4		
10/28/2009 10:00	0.372	0.372	0.600	12.9	278	9.9	8.4		
10/28/2009 10:15	0.368	0.368	0.572	13	278	9.9	8.4		
10/28/2009 10:30	0.367	0.367	0.566	12.9	280	9.9	8.4		
10/28/2009 10:45	0.367	0.367	0.566	12.9	280	9.9	8.4		
10/28/2009 11:00	0.367	0.367	0.566	13.1	278	9.9	8.4		
10/28/2009 11:15	0.366	0.366	0.559	13.2	278	9.9	8.4		
10/28/2009 11:30	0.367	0.367	0.566	13.2	278	9.8	8.4		11:31
10/28/2009 11:45	0.367	0.367	0.566	13.3	278	9.9	8.4		
10/28/2009 12:00	0.363	0.363	0.540	13.3	280	9.8	8.4		
10/28/2009 12:15	0.37	0.37	0.586	13.4	278	9.8	8.4		
10/28/2009 12:30	0.365	0.365	0.553	13.5	278	9.8	8.4		
10/28/2009 12:45	0.369	0.369	0.579	13.6	278	9.8	8.4		
10/28/2009 13:00	0.371	0.371	0.593	13.6	278	9.7	8.4		
10/28/2009 13:15	0.369	0.369	0.579	13.7	278	9.7	8.4		
10/28/2009 13:30	0.372	0.372	0.600	13.7	278	9.7	8.4		
10/28/2009 13:45	0.37	0.37	0.586	13.8	278	9.7	8.4		
10/28/2009 14:00	0.364	0.364	0.546	13.8	278	9.7	8.4		
10/28/2009 14:15	0.369	0.369	0.579	13.9	278	9.7	8.4		
10/28/2009 14:30	0.366	0.366	0.559	13.9	278	9.6	8.4		
10/28/2009 14:45	0.365	0.365	0.553	13.9	274	9.6	8.4		
10/28/2009 15:00	0.365	0.365	0.553	13.9	276	9.6	8.4		
10/28/2009 15:15	0.367	0.367	0.566	13.9	276	9.6	8.4		
10/28/2009 15:30	0.363	0.363	0.540	13.9	276	9.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/28/2009 15:45	0.363	0.363	0.540	13.9	276	9.6	8.4		
10/28/2009 16:00	0.364	0.364	0.546	13.9	276	9.6	8.4		
10/28/2009 16:15	0.361	0.361	0.528	13.8	276	9.7	8.4		
10/28/2009 16:30	0.365	0.365	0.553	13.8	276	9.7	8.4		
10/28/2009 16:45	0.365	0.365	0.553	13.7	276	9.7	8.4		
10/28/2009 17:00	0.365	0.365	0.553	13.7	276	9.7	8.4		
10/28/2009 17:15	0.361	0.361	0.528	13.6	276	9.7	8.4		
10/28/2009 17:30	0.364	0.364	0.546	13.6	276	9.7	8.4		
10/28/2009 17:45	0.363	0.363	0.540	13.6	276	9.7	8.4		
10/28/2009 18:00	0.362	0.362	0.534	13.5	276	9.7	8.4		
10/28/2009 18:15	0.361	0.361	0.528	13.5	274	9.7	8.4		
10/28/2009 18:30	0.372	0.372	0.600	13.4	276	9.8	8.4		
10/28/2009 18:45	0.366	0.366	0.559	13.4	274	9.8	8.4		
10/28/2009 19:00	0.369	0.369	0.579	13.3	274	9.8	8.4		
10/28/2009 19:15	0.372	0.372	0.600	13.2	274	9.8	8.4		
10/28/2009 19:30	0.355	0.355	0.492	13.2	274	9.8	8.4		
10/28/2009 19:45	0.369	0.369	0.579	13.1	274	9.8	8.4		
10/28/2009 20:00	0.348	0.348	0.454	13.1	274	9.9	8.4		
10/28/2009 20:15	0.362	0.362	0.534	13	274	9.9	8.4		
10/28/2009 20:30	0.358	0.358	0.509	12.9	274	9.9	8.4		
10/28/2009 20:45	0.364	0.364	0.546	12.9	274	9.9	8.4		
10/28/2009 21:00	0.361	0.361	0.528	12.8	274	9.9	8.4		
10/28/2009 21:15	0.358	0.358	0.509	12.7	274	9.9	8.4		
10/28/2009 21:30	0.359	0.359	0.515	12.7	274	9.9	8.4		
10/28/2009 21:45	0.361	0.361	0.528	12.6	274	10	8.4		
10/28/2009 22:00	0.363	0.363	0.540	12.6	272	10	8.4		
10/28/2009 22:15	0.361	0.361	0.528	12.5	274	10	8.4		
10/28/2009 22:30	0.356	0.356	0.498	12.5	274	10	8.4		
10/28/2009 22:45	0.365	0.365	0.553	12.4	274	10	8.4		
10/28/2009 23:00	0.355	0.355	0.492	12.4	272	10	8.4		
10/28/2009 23:15	0.361	0.361	0.528	12.4	274	10	8.4		
10/28/2009 23:30	0.359	0.359	0.515	12.3	274	10.1	8.4		
10/28/2009 23:45	0.356	0.356	0.498	12.3	274	10	8.4		
10/29/2009 0:00	0.363	0.363	0.540	12.3	274	10	8.4		
10/29/2009 0:15	0.357	0.357	0.504	12.3	274	10.1	8.4		
10/29/2009 0:30	0.354	0.354	0.486	12.2	274	10.1	8.4		
10/29/2009 0:45	0.355	0.355	0.492	12.2	274	10.1	8.4		
10/29/2009 1:00	0.359	0.359	0.515	12.2	274	10.1	8.4		
10/29/2009 1:15	0.36	0.36	0.521	12.2	276	10.1	8.4		
10/29/2009 1:30	0.363	0.363	0.540	12.1	274	10.1	8.4		
10/29/2009 1:45	0.363	0.363	0.540	12.1	274	10.1	8.4		
10/29/2009 2:00	0.365	0.365	0.553	12.1	276	10.1	8.4		
10/29/2009 2:15	0.359	0.359	0.515	12.1	274	10.1	8.4		
10/29/2009 2:30	0.361	0.361	0.528	12	274	10.1	8.4		
10/29/2009 2:45	0.361	0.361	0.528	12	276	10.1	8.4		
10/29/2009 3:00	0.361	0.361	0.528	12	274	10.1	8.4		
10/29/2009 3:15	0.36	0.36	0.521	11.9	274	10.2	8.4		
10/29/2009 3:30	0.363	0.363	0.540	11.9	274	10.1	8.4		
10/29/2009 3:45	0.36	0.36	0.521	11.9	274	10.2	8.4		
10/29/2009 4:00	0.361	0.361	0.528	11.8	274	10.2	8.4		
10/29/2009 4:15	0.361	0.361	0.528	11.8	274	10.2	8.4		
10/29/2009 4:30	0.358	0.358	0.509	11.8	274	10.2	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/29/2009 4:45	0.361	0.361	0.528	11.8	274	10.2	8.4		
10/29/2009 5:00	0.36	0.36	0.521	11.7	274	10.2	8.4		
10/29/2009 5:15	0.361	0.361	0.528	11.7	274	10.2	8.4		
10/29/2009 5:30	0.36	0.36	0.521	11.7	274	10.2	8.4		
10/29/2009 5:45	0.359	0.359	0.515	11.6	274	10.2	8.4		
10/29/2009 6:00	0.357	0.357	0.504	11.6	276	10.3	8.4		
10/29/2009 6:15	0.354	0.354	0.486	11.6	276	10.3	8.4		
10/29/2009 6:30	0.357	0.357	0.504	11.5	274	10.2	8.4		
10/29/2009 6:45	0.357	0.357	0.504	11.5	276	10.3	8.4		
10/29/2009 7:00	0.365	0.365	0.553	11.5	274	10.3	8.4		
10/29/2009 7:15	0.348	0.348	0.454	11.5	274	10.3	8.4		
10/29/2009 7:30	0.352	0.352	0.475	11.4	274	10.3	8.4		
10/29/2009 7:45	0.351	0.351	0.470	11.4	274	10.3	8.4		
10/29/2009 8:00	0.349	0.349	0.459	11.4	274	10.4	8.4		
10/29/2009 8:15	0.346	0.346	0.443	11.4	274	10.4	8.4		
10/29/2009 8:30	0.344	0.344	0.433	11.4	276	10.4	8.4		
10/29/2009 8:45	0.349	0.349	0.459	11.4	274	10.4	8.4		
10/29/2009 9:00	0.346	0.346	0.443	11.5	274	10.4	8.4		
10/29/2009 9:15	0.346	0.346	0.443	11.5	274	10.4	8.4		
10/29/2009 9:30	0.345	0.345	0.438	11.5	274	10.4	8.4		
10/29/2009 9:45	0.348	0.348	0.454	11.6	274	10.3	8.4		
10/29/2009 10:00	0.349	0.349	0.459	11.7	276	10.4	8.4		
10/29/2009 10:15	0.349	0.349	0.459	11.8	274	10.3	8.4		
10/29/2009 10:30	0.35	0.35	0.464	11.9	276	10.3	8.4		
10/29/2009 10:45	0.348	0.348	0.454	12	276	10.3	8.4		
10/29/2009 11:00	0.348	0.348	0.454	12.1	274	10.3	8.4		
10/29/2009 11:15	0.348	0.348	0.454	12.2	274	10.2	8.4		
10/29/2009 11:30	0.347	0.347	0.448	12.4	274	10.2	8.4		
10/29/2009 11:45	0.36	0.36	0.521	12.5	274	10.1	8.4		
10/29/2009 12:00	0.359	0.359	0.515	12.7	274	10.1	8.4		
10/29/2009 12:15	0.349	0.349	0.459	12.8	276	10.1	8.4		
10/29/2009 12:30	0.354	0.354	0.486	12.9	276	10	8.4		
10/29/2009 12:45	0.359	0.359	0.515	13	274	10	8.4		
10/29/2009 13:00	0.35	0.35	0.464	13.1	276	9.9	8.4		
10/29/2009 13:15	0.357	0.357	0.504	13.2	276	9.9	8.4		
10/29/2009 13:30	0.357	0.357	0.504	13.3	276	9.9	8.4		
10/29/2009 13:45	0.372	0.372	0.600	13.3	276	9.9	8.5		
10/29/2009 14:00	0.349	0.349	0.459	13.3	274	9.9	8.5		
10/29/2009 14:15	0.35	0.35	0.464	13.3	276	9.9	8.5		
10/29/2009 14:30	0.328	0.328	0.359	13.3	276	9.8	8.4		
10/29/2009 14:45	0.357	0.357	0.504	13.3	274	9.8	8.4		
10/29/2009 15:00	0.354	0.354	0.486	13.3	276	9.8	8.4		
10/29/2009 15:15	0.352	0.352	0.475	13.3	276	9.8	8.4		
10/29/2009 15:30	0.35	0.35	0.464	13.3	274	9.8	8.4		
10/29/2009 15:45	0.354	0.354	0.486	13.3	274	9.8	8.4		
10/29/2009 16:00	0.354	0.354	0.486	13.3	274	9.8	8.4		
10/29/2009 16:15	0.352	0.352	0.475	13.3	274	9.7	8.4		
10/29/2009 16:30	0.341	0.341	0.418	13.3	274	9.8	8.4		
10/29/2009 16:45	0.355	0.355	0.492	13.3	276	9.8	8.4		
10/29/2009 17:00	0.353	0.353	0.481	13.3	276	9.8	8.4		
10/29/2009 17:15	0.352	0.352	0.475	13.3	276	9.8	8.4		
10/29/2009 17:30	0.352	0.352	0.475	13.3	276	9.8	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/29/2009 17:45	0.347	0.347	0.448	13.2	276	9.8	8.4		
10/29/2009 18:00	0.342	0.342	0.423	13.2	276	9.8	8.4		
10/29/2009 18:15	0.359	0.359	0.515	13.1	276	9.8	8.4		
10/29/2009 18:30	0.357	0.357	0.504	13.1	270	9.8	8.4		
10/29/2009 18:45	0.356	0.356	0.498	13.1	276	9.8	8.4		
10/29/2009 19:00	0.346	0.346	0.443	13	276	9.8	8.4		
10/29/2009 19:15	0.341	0.341	0.418	13	276	9.8	8.4		
10/29/2009 19:30	0.343	0.343	0.428	12.9	276	9.8	8.4		
10/29/2009 19:45	0.341	0.341	0.418	12.9	276	9.8	8.4		
10/29/2009 20:00	0.341	0.341	0.418	12.8	276	9.9	8.4		
10/29/2009 20:15	0.354	0.354	0.486	12.8	278	9.8	8.4		
10/29/2009 20:30	0.357	0.357	0.504	12.8	276	9.9	8.4		
10/29/2009 20:45	0.355	0.355	0.492	12.7	276	9.9	8.4		
10/29/2009 21:00	0.355	0.355	0.492	12.7	276	9.9	8.4		
10/29/2009 21:15	0.354	0.354	0.486	12.7	274	9.9	8.4		
10/29/2009 21:30	0.353	0.353	0.481	12.6	250	9.9	8.4		
10/29/2009 21:45	0.355	0.355	0.492	12.6	256	9.9	8.4		
10/29/2009 22:00	0.354	0.354	0.486	12.6	258	9.9	8.4		
10/29/2009 22:15	0.353	0.353	0.481	12.5	232	9.9	8.4		
10/29/2009 22:30	0.353	0.353	0.481	12.5	262	10	8.4		
10/29/2009 22:45	0.355	0.355	0.492	12.5	242	10	8.4		
10/29/2009 23:00	0.355	0.355	0.492	12.5	220	10	8.4		
10/29/2009 23:15	0.353	0.353	0.481	12.4	202	10	8.4		
10/29/2009 23:30	0.355	0.355	0.492	12.4	206	10	8.4		
10/29/2009 23:45	0.356	0.356	0.498	12.4	180	10	8.4		
10/30/2009 0:00	0.354	0.354	0.486	12.4	196	10	8.4		
10/30/2009 0:15	0.354	0.354	0.486	12.4	190	10	8.4		
10/30/2009 0:30	0.353	0.353	0.481	12.4	200	9.9	8.4		
10/30/2009 0:45	0.352	0.352	0.475	12.4	170	10	8.4		
10/30/2009 1:00	0.353	0.353	0.481	12.4	258	10	8.4		
10/30/2009 1:15	0.353	0.353	0.481	12.4	278	10	8.4		
10/30/2009 1:30	0.352	0.352	0.475	12.4	278	9.9	8.4		
10/30/2009 1:45	0.354	0.354	0.486	12.4	274	10	8.4		
10/30/2009 2:00	0.355	0.355	0.492	12.4	278	10	8.4		
10/30/2009 2:15	0.352	0.352	0.475	12.4	278	9.9	8.4		
10/30/2009 2:30	0.353	0.353	0.481	12.4	280	10	8.4		
10/30/2009 2:45	0.353	0.353	0.481	12.4	278	10	8.4		
10/30/2009 3:00	0.353	0.353	0.481	12.4	280	9.9	8.4		
10/30/2009 3:15	0.352	0.352	0.475	12.4	280	9.9	8.4		
10/30/2009 3:30	0.35	0.35	0.464	12.4	280	9.9	8.4		
10/30/2009 3:45	0.351	0.351	0.470	12.4	276	10	8.4		
10/30/2009 4:00	0.352	0.352	0.475	12.4	280	10	8.4		
10/30/2009 4:15	0.351	0.351	0.470	12.4	280	10	8.4		
10/30/2009 4:30	0.353	0.353	0.481	12.4	280	9.9	8.4		
10/30/2009 4:45	0.332	0.332	0.377	12.4	280	9.9	8.4		
10/30/2009 5:00	0.334	0.334	0.385	12.4	280	10	8.4		
10/30/2009 5:15	0.333	0.333	0.381	12.4	278	9.9	8.4		
10/30/2009 5:30	0.331	0.331	0.372	12.4	280	9.9	8.4		
10/30/2009 5:45	0.332	0.332	0.377	12.5	282	10	8.4		
10/30/2009 6:00	0.33	0.33	0.368	12.5	268	9.9	8.4		
10/30/2009 6:15	0.332	0.332	0.377	12.5	282	9.9	8.4		
10/30/2009 6:30	0.329	0.329	0.364	12.5	282	9.9	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/30/2009 6:45	0.333	0.333	0.381	12.4	282	9.9	8.4		
10/30/2009 7:00	0.331	0.331	0.372	12.4	282	10	8.4		
10/30/2009 7:15	0.341	0.341	0.418	12.5	282	9.9	8.4		
10/30/2009 7:30	0.331	0.331	0.372	12.5	282	10	8.4		
10/30/2009 7:45	0.33	0.33	0.368	12.5	282	9.9	8.4		
10/30/2009 8:00	0.331	0.331	0.372	12.6	282	10	8.4		
10/30/2009 8:15	0.328	0.328	0.359	12.6	282	10	8.4		
10/30/2009 8:30	0.33	0.33	0.368	12.7	282	10	8.4		
10/30/2009 8:45	0.346	0.346	0.443	12.8	282	10	8.4		
10/30/2009 9:00	0.342	0.342	0.423	12.9	282	9.9	8.4		
10/30/2009 9:15	0.339	0.339	0.408	13	260	9.9	8.4		
10/30/2009 9:30	0.346	0.346	0.443	13.1	282	9.9	8.4		
10/30/2009 9:45	0.344	0.344	0.433	13.2	282	9.9	8.4		
10/30/2009 10:00	0.341	0.341	0.418	13.3	282	9.8	8.4		
10/30/2009 10:15	0.328	0.328	0.359	13.4	282	9.8	8.4		
10/30/2009 10:30	0.327	0.327	0.355	13.5	280	9.8	8.4		
10/30/2009 10:45	0.337	0.337	0.399	13.6	252	9.7	8.4		
10/30/2009 11:00	0.331	0.331	0.372	13.7	282	9.7	8.4		
10/30/2009 11:15	0.339	0.339	0.408	13.9	284	9.7	8.4		
10/30/2009 11:30	0.333	0.333	0.381	14	284	9.7	8.4		
10/30/2009 11:45	0.335	0.335	0.390	14.1	284	9.6	8.4		
10/30/2009 12:00	0.332	0.332	0.377	14.3	284	9.6	8.4		
10/30/2009 12:15	0.333	0.333	0.381	14.4	284	9.5	8.4		
10/30/2009 12:30	0.332	0.332	0.377	14.4	284	9.5	8.4		
10/30/2009 12:45	0.328	0.328	0.359	14.5	284	9.5	8.4		
10/30/2009 13:00	0.33	0.33	0.368	14.5	284	9.5	8.4		
10/30/2009 13:15	0.33	0.33	0.368	14.6	284	9.5	8.4		
10/30/2009 13:30	0.333	0.333	0.381	14.6	286	9.4	8.4		
10/30/2009 13:45	0.336	0.336	0.394	14.6	284	9.4	8.4		
10/30/2009 14:00	0.349	0.349	0.459	14.6	284	9.4	8.4		
10/30/2009 14:15	0.335	0.335	0.390	14.6	284	9.4	8.4		
10/30/2009 14:30	0.336	0.336	0.394	14.6	286	9.4	8.4		
10/30/2009 14:45	0.337	0.337	0.399	14.6	284	9.4	8.4		
10/30/2009 15:00	0.332	0.332	0.377	14.7	286	9.4	8.4		
10/30/2009 15:15	0.338	0.338	0.404	14.7	286	9.3	8.4		
10/30/2009 15:30	0.335	0.335	0.390	14.7	284	9.3	8.4		
10/30/2009 15:45	0.332	0.332	0.377	14.7	284	9.3	8.4		
10/30/2009 16:00	0.333	0.333	0.381	14.7	286	9.3	8.4		
10/30/2009 16:15	0.335	0.335	0.390	14.6	288	9.3	8.4		
10/30/2009 16:30	0.335	0.335	0.390	14.6	276	9.3	8.4		
10/30/2009 16:45	0.333	0.333	0.381	14.6	286	9.3	8.4		
10/30/2009 17:00	0.335	0.335	0.390	14.6	288	9.3	8.4		
10/30/2009 17:15	0.333	0.333	0.381	14.6	286	9.3	8.4		
10/30/2009 17:30	0.333	0.333	0.381	14.6	286	9.3	8.4		
10/30/2009 17:45	0.332	0.332	0.377	14.6	286	9.3	8.4		
10/30/2009 18:00	0.333	0.333	0.381	14.5	286	9.3	8.4		
10/30/2009 18:15	0.335	0.335	0.390	14.5	286	9.3	8.4		
10/30/2009 18:30	0.337	0.337	0.399	14.5	286	9.3	8.4		
10/30/2009 18:45	0.325	0.325	0.347	14.5	286	9.3	8.4		
10/30/2009 19:00	0.334	0.334	0.385	14.5	288	9.3	8.4		
10/30/2009 19:15	0.334	0.334	0.385	14.5	286	9.3	8.4		
10/30/2009 19:30	0.332	0.332	0.377	14.5	286	9.3	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/30/2009 19:45	0.33	0.33	0.368	14.6	286	9.3	8.4		
10/30/2009 20:00	0.333	0.333	0.381	14.6	288	9.3	8.4		
10/30/2009 20:15	0.326	0.326	0.351	14.6	286	9.3	8.4		
10/30/2009 20:30	0.333	0.333	0.381	14.6	286	9.3	8.4		
10/30/2009 20:45	0.331	0.331	0.372	14.6	288	9.3	8.4		
10/30/2009 21:00	0.331	0.331	0.372	14.6	288	9.3	8.4		
10/30/2009 21:15	0.332	0.332	0.377	14.6	286	9.2	8.4		
10/30/2009 21:30	0.331	0.331	0.372	14.7	288	9.2	8.4		
10/30/2009 21:45	0.331	0.331	0.372	14.7	288	9.2	8.4		
10/30/2009 22:00	0.33	0.33	0.368	14.7	288	9.2	8.4		
10/30/2009 22:15	0.33	0.33	0.368	14.7	288	9.2	8.4		
10/30/2009 22:30	0.337	0.337	0.399	14.7	290	9.2	8.4		
10/30/2009 22:45	0.332	0.332	0.377	14.8	290	9.2	8.4		
10/30/2009 23:00	0.335	0.335	0.390	14.8	290	9.2	8.4		
10/30/2009 23:15	0.335	0.335	0.390	14.8	288	9.2	8.4		
10/30/2009 23:30	0.333	0.333	0.381	14.8	290	9.2	8.4		
10/30/2009 23:45	0.332	0.332	0.377	14.8	288	9.1	8.4		
10/31/2009 0:00	0.335	0.335	0.390	14.9	290	9.1	8.4		
10/31/2009 0:15	0.331	0.331	0.372	14.9	288	9.2	8.4		
10/31/2009 0:30	0.33	0.33	0.368	14.9	288	9.1	8.4		
10/31/2009 0:45	0.341	0.341	0.418	14.9	290	9.1	8.4		
10/31/2009 1:00	0.332	0.332	0.377	14.9	290	9.1	8.4		
10/31/2009 1:15	0.33	0.33	0.368	14.9	290	9.1	8.4		
10/31/2009 1:30	0.334	0.334	0.385	15	290	9.1	8.4		
10/31/2009 1:45	0.33	0.33	0.368	15	290	9.1	8.4		
10/31/2009 2:00	0.326	0.326	0.351	15	288	9.1	8.4		
10/31/2009 2:15	0.326	0.326	0.351	15	288	9.1	8.4		
10/31/2009 2:30	0.327	0.327	0.355	15	290	9.1	8.4		
10/31/2009 2:45	0.327	0.327	0.355	15.1	290	9	8.4		
10/31/2009 3:00	0.341	0.341	0.418	15.1	288	9	8.4		
10/31/2009 3:15	0.342	0.342	0.423	15.1	284	9	8.3		
10/31/2009 3:30	0.351	0.351	0.470	15.1	280	9	8.3		
10/31/2009 3:45	0.343	0.343	0.428	15.1	278	9	8.3		
10/31/2009 4:00	0.355	0.355	0.492	15.1	276	9	8.3		
10/31/2009 4:15	0.358	0.358	0.509	15	270	9	8.3		
10/31/2009 4:30	0.372	0.372	0.600	15	268	9	8.3		
10/31/2009 4:45	0.388	0.388	0.722	15	264	9.1	8.3		
10/31/2009 5:00	0.419	0.419	1.035	14.9	266	9.1	8.3		5:01
10/31/2009 5:15	0.438	0.438	1.292	14.8	266	9.2	8.3		
10/31/2009 5:30	0.45	0.45	1.485	14.7	260	9.2	8.3		
10/31/2009 5:45	0.459	0.459	1.649	14.7	258	9.2	8.3		
10/31/2009 6:00	0.456	0.456	1.592	14.6	250	9.3	8.3		
10/31/2009 6:15	0.488	0.488	2.310	14.5	238	9.2	8.3		
10/31/2009 6:30	0.509	0.509	2.949	14.4	232	9.3	8.2		
10/31/2009 6:45	0.52	0.52	3.351	14.3	232	9.3	8.2		
10/31/2009 7:00	0.524	0.524	3.511	14.2	230	9.4	8.2		
10/31/2009 7:15	0.55	0.55	4.750	14.1	226	9.4	8.2		
10/31/2009 7:30	0.563	0.563	5.525	14	220	9.4	8.2		
10/31/2009 7:45	0.557	0.557	5.153	13.9	214	9.5	8.2		
10/31/2009 8:00	0.579	0.579	6.655	13.8	208	9.5	8.2		
10/31/2009 8:15	0.596	0.596	8.109	13.7	204	9.5	8.2		
10/31/2009 8:30	0.617	0.617	10.352	13.6	200	9.6	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/31/2009 8:45	0.632	0.632	12.325	13.5	198	9.6	8.2		
10/31/2009 9:00	0.649	0.649	15.019	13.5	196	9.7	8.2		
10/31/2009 9:15	0.669	0.669	18.951	13.4	192	9.7	8.2		
10/31/2009 9:30	0.675	0.675	20.320	13.3	190	9.7	8.2		
10/31/2009 9:45	0.661	0.661	17.268	13.2	188	9.8	8.2		
10/31/2009 10:00	0.677	0.677	20.799	13.2	186	9.8	8.2		
10/31/2009 10:15	0.655	0.655	16.104	13.1	184	9.8	8.2		
10/31/2009 10:30	0.652	0.652	15.552	13.1	182	9.8	8.2		
10/31/2009 10:45	0.655	0.655	16.104	13.1	182	9.8	8.2		
10/31/2009 11:00	0.641	0.641	13.685	13.1	180	9.8	8.2		
10/31/2009 11:15	0.637	0.637	13.063	13.1	178	9.8	8.2		
10/31/2009 11:30	0.636	0.636	12.912	13.1	178	9.8	8.2		
10/31/2009 11:45	0.643	0.643	14.007	13.1	176	9.8	8.2		
10/31/2009 12:00	0.639	0.639	13.370	13.2	176	9.9	8.2		
10/31/2009 12:15	0.636	0.636	12.912	13.2	174	9.8	8.2		
10/31/2009 12:30	0.633	0.633	12.469	13.2	172	9.8	8.2		
10/31/2009 12:45	0.623	0.623	11.100	13.2	172	9.9	8.2		
10/31/2009 13:00	0.629	0.629	11.902	13.2	170	9.8	8.2		
10/31/2009 13:15	0.623	0.623	11.100	13.3	170	9.8	8.2		
10/31/2009 13:30	0.616	0.616	10.233	13.3	170	9.8	8.2		
10/31/2009 13:45	0.616	0.616	10.233	13.3	168	9.8	8.2		
10/31/2009 14:00	0.623	0.623	11.100	13.3	168	9.8	8.2		
10/31/2009 14:15	0.614	0.614	9.997	13.3	168	9.8	8.2		
10/31/2009 14:30	0.614	0.614	9.997	13.3	166	9.8	8.2		
10/31/2009 14:45	0.613	0.613	9.882	13.3	166	9.8	8.2		
10/31/2009 15:00	0.606	0.606	9.109	13.3	166	9.8	8.2		
10/31/2009 15:15	0.606	0.606	9.109	13.2	166	9.8	8.2		
10/31/2009 15:30	0.6	0.6	8.495	13.2	164	9.8	8.2		
10/31/2009 15:45	0.603	0.603	8.797	13.2	164	9.8	8.2		
10/31/2009 16:00	0.597	0.597	8.204	13.1	164	9.8	8.2		
10/31/2009 16:15	0.596	0.596	8.109	13.1	166	9.9	8.2		
10/31/2009 16:30	0.586	0.586	7.219	13.1	166	9.8	8.2		
10/31/2009 16:45	0.592	0.592	7.741	13	166	9.8	8.2		
10/31/2009 17:00	0.589	0.589	7.475	13	164	9.9	8.2		
10/31/2009 17:15	0.586	0.586	7.219	12.9	164	9.9	8.2		
10/31/2009 17:30	0.572	0.572	6.135	12.9	164	9.9	8.2		
10/31/2009 17:45	0.567	0.567	5.788	12.9	164	9.9	8.2		
10/31/2009 18:00	0.567	0.567	5.788	12.8	164	9.9	8.2		
10/31/2009 18:15	0.563	0.563	5.525	12.8	164	9.9	8.2		
10/31/2009 18:30	0.561	0.561	5.398	12.7	164	9.9	8.2		
10/31/2009 18:45	0.561	0.561	5.398	12.7	164	9.9	8.2		
10/31/2009 19:00	0.558	0.558	5.213	12.7	164	9.9	8.2		
10/31/2009 19:15	0.552	0.552	4.862	12.7	164	10	8.2		
10/31/2009 19:30	0.548	0.548	4.641	12.6	164	10	8.2		
10/31/2009 19:45	0.547	0.547	4.587	12.6	164	10	8.2		
10/31/2009 20:00	0.548	0.548	4.641	12.6	164	10	8.2		
10/31/2009 20:15	0.547	0.547	4.587	12.5	164	10	8.2		
10/31/2009 20:30	0.538	0.538	4.131	12.5	166	10	8.2		
10/31/2009 20:45	0.54	0.54	4.229	12.5	164	10	8.2		
10/31/2009 21:00	0.538	0.538	4.131	12.5	162	10	8.2		
10/31/2009 21:15	0.534	0.534	3.944	12.4	164	10	8.2		
10/31/2009 21:30	0.533	0.533	3.898	12.4	162	10	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
10/31/2009 21:45	0.533	0.533	3.898	12.4	160	10.1	8.2		
10/31/2009 22:00	0.527	0.527	3.635	12.3	160	10.1	8.2		
10/31/2009 22:15	0.525	0.525	3.552	12.3	160	10	8.2		
10/31/2009 22:30	0.522	0.522	3.430	12.2	160	10	8.2		
10/31/2009 22:45	0.524	0.524	3.511	12.2	158	10.1	8.2		
10/31/2009 23:00	0.521	0.521	3.390	12.1	164	10.1	8.2		
10/31/2009 23:15	0.518	0.518	3.274	12	162	10.1	8.2		
10/31/2009 23:30	0.516	0.516	3.199	12	156	10.1	8.2		
10/31/2009 23:45	0.513	0.513	3.089	11.9	150	10.1	8.2		
11/1/2009 0:00	0.514	0.514	3.125	11.8	152	10.2	8.2		
11/1/2009 0:15	0.513	0.513	3.089	11.7	158	10.2	8.2		
11/1/2009 0:30	0.507	0.507	2.881	11.7	156	10.2	8.2		
11/1/2009 0:45	0.508	0.508	2.915	11.6	156	10.2	8.2		
11/1/2009 1:00	0.51	0.51	2.983	11.5	150	10.2	8.2		
11/1/2009 1:15	0.502	0.502	2.718	11.5	146	10.2	8.2		
11/1/2009 1:30	0.504	0.504	2.782	11.4	154	10.3	8.2		
11/1/2009 1:45	0.501	0.501	2.687	11.3	150	10.3	8.2		
11/1/2009 2:00	0.499	0.499	2.625	11.3	146	10.3	8.2		
11/1/2009 2:15	0.497	0.497	2.565	11.2	146	10.3	8.2		
11/1/2009 2:30	0.499	0.499	2.625	11.1	144	10.3	8.2		
11/1/2009 2:45	0.488	0.488	2.310	11.1	140	10.4	8.2		
11/1/2009 3:00	0.491	0.491	2.392	11	148	10.4	8.2		
11/1/2009 3:15	0.487	0.487	2.283	11	140	10.3	8.2		
11/1/2009 3:30	0.484	0.484	2.205	10.9	140	10.3	8.2		
11/1/2009 3:45	0.486	0.486	2.257	10.9	138	10.4	8.2		
11/1/2009 4:00	0.484	0.484	2.205	10.8	134	10.4	8.2		
11/1/2009 4:15	0.484	0.484	2.205	10.8	150	10.4	8.2		
11/1/2009 4:30	0.487	0.487	2.283	10.7	146	10.4	8.2		
11/1/2009 4:45	0.483	0.483	2.179	10.7	146	10.4	8.2		
11/1/2009 5:00	0.481	0.481	2.129	10.7	144	10.4	8.2		
11/1/2009 5:15	0.481	0.481	2.129	10.6	142	10.5	8.2		
11/1/2009 5:30	0.48	0.48	2.105	10.6	146	10.5	8.2		
11/1/2009 5:45	0.477	0.477	2.033	10.6	138	10.5	8.2		
11/1/2009 6:00	0.477	0.477	2.033	10.5	138	10.5	8.2		
11/1/2009 6:15	0.472	0.472	1.918	10.5	138	10.5	8.2		
11/1/2009 6:30	0.471	0.471	1.896	10.5	140	10.5	8.2		
11/1/2009 6:45	0.467	0.467	1.809	10.4	138	10.5	8.2		
11/1/2009 7:00	0.467	0.467	1.809	10.4	126	10.6	8.2		
11/1/2009 7:15	0.465	0.465	1.768	10.4	150	10.5	8.2		
11/1/2009 7:30	0.464	0.464	1.747	10.3	152	10.5	8.2		
11/1/2009 7:45	0.46	0.46	1.668	10.3	148	10.5	8.2		
11/1/2009 8:00	0.465	0.465	1.768	10.3	142	10.6	8.2		
11/1/2009 8:15	0.463	0.463	1.727	10.3	140	10.6	8.2		
11/1/2009 8:30	0.458	0.458	1.630	10.4	140	10.6	8.2		
11/1/2009 8:45	0.456	0.456	1.592	10.4	138	10.6	8.2		
11/1/2009 9:00	0.458	0.458	1.630	10.5	130	10.5	8.2		
11/1/2009 9:15	0.456	0.456	1.592	10.6	122	10.6	8.2		
11/1/2009 9:30	0.453	0.453	1.538	10.7	116	10.5	8.2		
11/1/2009 9:45	0.448	0.448	1.451	10.7	126	10.5	8.2		
11/1/2009 10:00	0.446	0.446	1.417	10.8	122	10.5	8.2		
11/1/2009 10:15	0.446	0.446	1.417	10.9	120	10.5	8.2		
11/1/2009 10:30	0.444	0.444	1.385	11	118	10.4	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/1/2009 10:45	0.442	0.442	1.353	11.1	116	10.4	8.2		
11/1/2009 11:00	0.447	0.447	1.434	11.2	118	10.4	8.2		
11/1/2009 11:15	0.441	0.441	1.337	11.3	120	10.3	8.2		
11/1/2009 11:30	0.442	0.442	1.353	11.4	120	10.3	8.2		
11/1/2009 11:45	0.442	0.442	1.353	11.5	114	10.3	8.2		
11/1/2009 12:00	0.438	0.438	1.292	11.6	116	10.2	8.2		
11/1/2009 12:15	0.438	0.438	1.292	11.7	118	10.3	8.2		
11/1/2009 12:30	0.435	0.435	1.247	11.8	114	10.2	8.2		
11/1/2009 12:45	0.438	0.438	1.292	11.9	114	10.2	8.2		
11/1/2009 13:00	0.439	0.439	1.307	11.9	114	10.1	8.2		
11/1/2009 13:15	0.437	0.437	1.277	12	112	10.1	8.2		
11/1/2009 13:30	0.434	0.434	1.233	12.1	120	10.1	8.2		
11/1/2009 13:45	0.435	0.435	1.247	12.1	114	10.1	8.2		
11/1/2009 14:00	0.433	0.433	1.219	12.1	118	10.1	8.2		
11/1/2009 14:15	0.433	0.433	1.219	12.2	116	10.1	8.2		
11/1/2009 14:30	0.433	0.433	1.219	12.2	124	10.1	8.2		
11/1/2009 14:45	0.433	0.433	1.219	12.2	124	10	8.2		
11/1/2009 15:00	0.43	0.43	1.177	12.2	128	10	8.2		
11/1/2009 15:15	0.427	0.427	1.136	12.2	120	10	8.2		
11/1/2009 15:30	0.428	0.428	1.150	12.2	110	10	8.2		
11/1/2009 15:45	0.424	0.424	1.097	12.1	102	10.1	8.2		
11/1/2009 16:00	0.421	0.421	1.060	12.1	174	10.1	8.2		
11/1/2009 16:15	0.424	0.424	1.097	12	176	10.1	8.2		
11/1/2009 16:30	0.422	0.422	1.072	12	168	10.1	8.2		
11/1/2009 16:45	0.425	0.425	1.110	12	158	10.1	8.2		
11/1/2009 17:00	0.421	0.421	1.060	11.9	152	10.1	8.2		
11/1/2009 17:15	0.417	0.417	1.012	11.9	132	10.1	8.2		
11/1/2009 17:30	0.418	0.418	1.024	11.8	176	10.2	8.2		
11/1/2009 17:45	0.417	0.417	1.012	11.8	182	10.2	8.2		
11/1/2009 18:00	0.417	0.417	1.012	11.7	170	10.2	8.2		
11/1/2009 18:15	0.413	0.413	0.966	11.6	166	10.2	8.2		
11/1/2009 18:30	0.414	0.414	0.977	11.6	158	10.2	8.2		
11/1/2009 18:45	0.418	0.418	1.024	11.5	128	10.2	8.2		
11/1/2009 19:00	0.416	0.416	1.000	11.4	172	10.2	8.2		
11/1/2009 19:15	0.413	0.413	0.966	11.4	164	10.3	8.2		
11/1/2009 19:30	0.414	0.414	0.977	11.3	140	10.3	8.2		
11/1/2009 19:45	0.409	0.409	0.922	11.2	150	10.3	8.2		
11/1/2009 20:00	0.403	0.403	0.860	11.2	162	10.3	8.2		
11/1/2009 20:15	0.408	0.408	0.911	11.1	156	10.3	8.2		
11/1/2009 20:30	0.408	0.408	0.911	11.1	156	10.3	8.2		
11/1/2009 20:45	0.408	0.408	0.911	11	150	10.4	8.2		
11/1/2009 21:00	0.404	0.404	0.870	10.9	170	10.4	8.2		
11/1/2009 21:15	0.406	0.406	0.890	10.9	162	10.4	8.2		
11/1/2009 21:30	0.406	0.406	0.890	10.8	186	10.4	8.2		
11/1/2009 21:45	0.402	0.402	0.850	10.7	180	10.4	8.2		
11/1/2009 22:00	0.398	0.398	0.811	10.7	162	10.4	8.2		
11/1/2009 22:15	0.404	0.404	0.870	10.6	182	10.4	8.2		
11/1/2009 22:30	0.402	0.402	0.850	10.6	180	10.5	8.2		
11/1/2009 22:45	0.404	0.404	0.870	10.5	192	10.5	8.2		
11/1/2009 23:00	0.403	0.403	0.860	10.4	154	10.5	8.2		
11/1/2009 23:15	0.398	0.398	0.811	10.4	182	10.5	8.2		
11/1/2009 23:30	0.4	0.4	0.830	10.3	188	10.6	8.2		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/1/2009 23:45	0.403	0.403	0.860	10.3	168	10.6	8.2		
11/2/2009 0:00	0.399	0.399	0.821	10.2	182	10.5	8.2		
11/2/2009 0:15	0.399	0.399	0.821	10.2	172	10.6	8.2		
11/2/2009 0:30	0.401	0.401	0.840	10.1	180	10.6	8.2		
11/2/2009 0:45	0.398	0.398	0.811	10.1	166	10.6	8.2		
11/2/2009 1:00	0.396	0.396	0.793	10	164	10.6	8.2		
11/2/2009 1:15	0.398	0.398	0.811	10	164	10.6	8.2		
11/2/2009 1:30	0.398	0.398	0.811	9.9	164	10.6	8.2		
11/2/2009 1:45	0.398	0.398	0.811	9.9	156	10.7	8.2		
11/2/2009 2:00	0.397	0.397	0.802	9.9	152	10.7	8.2		
11/2/2009 2:15	0.395	0.395	0.783	9.8	158	10.6	8.2		
11/2/2009 2:30	0.398	0.398	0.811	9.8	150	10.7	8.2		
11/2/2009 2:45	0.395	0.395	0.783	9.8	146	10.7	8.2		
11/2/2009 3:00	0.392	0.392	0.756	9.7	150	10.7	8.2		
11/2/2009 3:15	0.393	0.393	0.765	9.7	200	10.7	8.2		
11/2/2009 3:30	0.393	0.393	0.765	9.6	200	10.8	8.2		
11/2/2009 3:45	0.391	0.391	0.748	9.6	198	10.7	8.2		
11/2/2009 4:00	0.392	0.392	0.756	9.6	198	10.7	8.2		
11/2/2009 4:15	0.391	0.391	0.748	9.5	196	10.7	8.2		
11/2/2009 4:30	0.392	0.392	0.756	9.5	164	10.8	8.2		
11/2/2009 4:45	0.391	0.391	0.748	9.4	182	10.8	8.2		
11/2/2009 5:00	0.392	0.392	0.756	9.4	180	10.8	8.2		
11/2/2009 5:15	0.389	0.389	0.731	9.4	164	10.8	8.2		
11/2/2009 5:30	0.39	0.39	0.739	9.3	204	10.8	8.2		
11/2/2009 5:45	0.391	0.391	0.748	9.3	204	10.9	8.2		
11/2/2009 6:00	0.391	0.391	0.748	9.2	204	10.8	8.2		
11/2/2009 6:15	0.387	0.387	0.714	9.2	204	10.9	8.2		
11/2/2009 6:30	0.385	0.385	0.697	9.2	198	10.8	8.2		
11/2/2009 6:45	0.388	0.388	0.722	9.1	194	10.9	8.2		
11/2/2009 7:00	0.387	0.387	0.714	9.1	188	10.9	8.2		
11/2/2009 7:15	0.387	0.387	0.714	9.1	172	10.9	8.2		
11/2/2009 7:30	0.384	0.384	0.689	9	156	10.9	8.2		
11/2/2009 7:45	0.386	0.386	0.706	9	166	11	8.2		
11/2/2009 8:00	0.387	0.387	0.714	9	160	10.9	8.2		
11/2/2009 8:15	0.383	0.383	0.681	9	146	10.9	8.2		
11/2/2009 8:30	0.381	0.381	0.666	9	138	10.9	8.2		
11/2/2009 8:45	0.379	0.379	0.650	9	138	11	8.2		
11/2/2009 9:00	0.383	0.383	0.681	9	138	11	8.2		
11/2/2009 9:15	0.381	0.381	0.666	9.1	132	10.9	8.2		
11/2/2009 9:30	0.382	0.382	0.673	9.1	154	10.9	8.2		
11/2/2009 9:45	0.381	0.381	0.666	9.2	120	10.9	8.3		
11/2/2009 10:00	0.384	0.384	0.689	9.3	146	10.9	8.3		
11/2/2009 10:15	0.382	0.382	0.673	9.4	148	10.9	8.3		
11/2/2009 10:30	0.378	0.378	0.643	9.5	180	10.9	8.3		
11/2/2009 10:45	0.376	0.376	0.628	9.6	152	10.8	8.3		
11/2/2009 11:00	0.38	0.38	0.658	9.8	148	10.8	8.3		
11/2/2009 11:15	0.379	0.379	0.650	9.9	148	10.8	8.3		
11/2/2009 11:30	0.378	0.378	0.643	10.1	142	10.7	8.3		
11/2/2009 11:45	0.373	0.373	0.607	10.2	124	10.6	8.3		
11/2/2009 12:00	0.378	0.378	0.643	10.4	122	10.6	8.3		
11/2/2009 12:15	0.374	0.374	0.614	10.6	94	10.5	8.3		
11/2/2009 12:30	0.377	0.377	0.635	10.7	172	10.5	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/2/2009 12:45	0.373	0.373	0.607	10.9	160	10.4	8.3		
11/2/2009 13:00	0.372	0.372	0.600	11	168	10.4	8.3		
11/2/2009 13:15	0.372	0.372	0.600	11.2	148	10.4	8.3		
11/2/2009 13:30	0.376	0.376	0.628	11.3	202	10.4	8.3		
11/2/2009 13:45	0.369	0.369	0.579	11.4	200	10.3	8.3		
11/2/2009 14:00	0.369	0.369	0.579	11.6	218	10.3	8.3		
11/2/2009 14:15	0.374	0.374	0.614	11.7	192	10.2	8.3		
11/2/2009 14:30	0.371	0.371	0.593	11.8	188	10.2	8.3		
11/2/2009 14:45	0.366	0.366	0.559	11.9	168	10.1	8.3		
11/2/2009 15:00	0.366	0.366	0.559	11.9	176	10.1	8.3		
11/2/2009 15:15	0.368	0.368	0.572	12	174	10.1	8.3		
11/2/2009 15:30	0.368	0.368	0.572	12	168	10.1	8.3		
11/2/2009 15:45	0.369	0.369	0.579	12	166	10.1	8.3		
11/2/2009 16:00	0.371	0.371	0.593	12	156	10.1	8.3		
11/2/2009 16:15	0.369	0.369	0.579	12	174	10.1	8.3		
11/2/2009 16:30	0.366	0.366	0.559	11.9	154	10.1	8.3		
11/2/2009 16:45	0.369	0.369	0.579	11.9	156	10.1	8.3		
11/2/2009 17:00	0.367	0.367	0.566	11.9	150	10.1	8.3		
11/2/2009 17:15	0.367	0.367	0.566	11.8	170	10.1	8.3		
11/2/2009 17:30	0.366	0.366	0.559	11.7	172	10.2	8.3		
11/2/2009 17:45	0.367	0.367	0.566	11.7	160	10.1	8.3		
11/2/2009 18:00	0.366	0.366	0.559	11.6	170	10.2	8.3		
11/2/2009 18:15	0.366	0.366	0.559	11.6	150	10.2	8.3		
11/2/2009 18:30	0.366	0.366	0.559	11.5	164	10.2	8.3		
11/2/2009 18:45	0.368	0.368	0.572	11.4	144	10.2	8.3		
11/2/2009 19:00	0.361	0.361	0.528	11.4	158	10.2	8.3		
11/2/2009 19:15	0.363	0.363	0.540	11.3	198	10.3	8.3		
11/2/2009 19:30	0.365	0.365	0.553	11.2	166	10.3	8.3		
11/2/2009 19:45	0.362	0.362	0.534	11.2	140	10.3	8.3		
11/2/2009 20:00	0.361	0.361	0.528	11.1	190	10.3	8.3		
11/2/2009 20:15	0.361	0.361	0.528	11	208	10.3	8.3		
11/2/2009 20:30	0.359	0.359	0.515	11	182	10.3	8.3		
11/2/2009 20:45	0.356	0.356	0.498	10.9	226	10.4	8.3		
11/2/2009 21:00	0.36	0.36	0.521	10.9	214	10.4	8.3		
11/2/2009 21:15	0.357	0.357	0.504	10.8	206	10.4	8.3		
11/2/2009 21:30	0.362	0.362	0.534	10.7	198	10.4	8.3		
11/2/2009 21:45	0.359	0.359	0.515	10.7	212	10.4	8.3		
11/2/2009 22:00	0.36	0.36	0.521	10.6	212	10.4	8.3		
11/2/2009 22:15	0.356	0.356	0.498	10.6	166	10.5	8.3		
11/2/2009 22:30	0.356	0.356	0.498	10.5	188	10.5	8.3		
11/2/2009 22:45	0.358	0.358	0.509	10.4	152	10.5	8.3		
11/2/2009 23:00	0.358	0.358	0.509	10.4	170	10.5	8.3		
11/2/2009 23:15	0.352	0.352	0.475	10.3	216	10.5	8.3		
11/2/2009 23:30	0.354	0.354	0.486	10.3	218	10.5	8.3		
11/2/2009 23:45	0.356	0.356	0.498	10.2	206	10.6	8.3		
11/3/2009 0:00	0.355	0.355	0.492	10.2	176	10.6	8.3		
11/3/2009 0:15	0.353	0.353	0.481	10.1	186	10.6	8.3		
11/3/2009 0:30	0.351	0.351	0.470	10.1	206	10.6	8.3		
11/3/2009 0:45	0.351	0.351	0.470	10	176	10.6	8.3		
11/3/2009 1:00	0.354	0.354	0.486	10	182	10.6	8.3		
11/3/2009 1:15	0.354	0.354	0.486	9.9	214	10.6	8.3		
11/3/2009 1:30	0.353	0.353	0.481	9.9	188	10.6	8.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/3/2009 1:45	0.352	0.352	0.475	9.8	188	10.7	8.3		
11/3/2009 2:00	0.352	0.352	0.475	9.8	220	10.7	8.3		
11/3/2009 2:15	0.354	0.354	0.486	9.8	198	10.7	8.3		
11/3/2009 2:30	0.349	0.349	0.459	9.7	182	10.7	8.3		
11/3/2009 2:45	0.352	0.352	0.475	9.7	194	10.7	8.3		
11/3/2009 3:00	0.351	0.351	0.470	9.6	200	10.7	8.3		
11/3/2009 3:15	0.346	0.346	0.443	9.6	238	10.8	8.3		
11/3/2009 3:30	0.348	0.348	0.454	9.5	208	10.8	8.3		
11/3/2009 3:45	0.35	0.35	0.464	9.5	210	10.7	8.3		
11/3/2009 4:00	0.351	0.351	0.470	9.5	204	10.8	8.3		
11/3/2009 4:15	0.349	0.349	0.459	9.4	208	10.8	8.3		
11/3/2009 4:30	0.35	0.35	0.464	9.4	210	10.8	8.3		
11/3/2009 4:45	0.349	0.349	0.459	9.3	180	10.8	8.3		
11/3/2009 5:00	0.349	0.349	0.459	9.3	166	10.8	8.3		
11/3/2009 5:15	0.344	0.344	0.433	9.3	192	10.8	8.3		
11/3/2009 5:30	0.348	0.348	0.454	9.2	170	10.8	8.3		
11/3/2009 5:45	0.347	0.347	0.448	9.2	166	10.8	8.3		
11/3/2009 6:00	0.349	0.349	0.459	9.2	182	10.9	8.3		
11/3/2009 6:15	0.347	0.347	0.448	9.1	188	10.8	8.3		
11/3/2009 6:30	0.346	0.346	0.443	9.1	190	10.9	8.3		
11/3/2009 6:45	0.347	0.347	0.448	9.1	194	10.8	8.3		
11/3/2009 7:00	0.347	0.347	0.448	9.1	192	10.9	8.3		
11/3/2009 7:15	0.345	0.345	0.438	9.1	216	10.9	8.3		
11/3/2009 7:30	0.342	0.342	0.423	9	208	10.9	8.3		
11/3/2009 7:45	0.342	0.342	0.423	9	226	11	8.3		
11/3/2009 8:00	0.346	0.346	0.443	9	234	10.9	8.3		
11/3/2009 8:15	0.345	0.345	0.438	9	236	10.9	8.3		
11/3/2009 8:30	0.343	0.343	0.428	9	236	11	8.3		
11/3/2009 8:45	0.342	0.342	0.423	9	236	11	8.3		
11/3/2009 9:00	0.347	0.347	0.448	9.1	236	11	8.3		
11/3/2009 9:15	0.344	0.344	0.433	9.1	236	11	8.3		
11/3/2009 9:30	0.344	0.344	0.433	9.2	236	10.9	8.3		
11/3/2009 9:45	0.342	0.342	0.423	9.3	236	10.9	8.3		
11/3/2009 10:00	0.341	0.341	0.418	9.4	238	10.9	8.3		
11/3/2009 10:15	0.345	0.345	0.438	9.5	238	10.9	8.3		
11/3/2009 10:30	0.34	0.34	0.413	9.7	240	10.8	8.3		
11/3/2009 10:45	0.342	0.342	0.423	9.8	240	10.8	8.3		
11/3/2009 11:00	0.341	0.341	0.418	9.9	240	10.7	8.3		
11/3/2009 11:15	0.34	0.34	0.413	10.1	240	10.7	8.3		
11/3/2009 11:30	0.343	0.343	0.428	10.3	240	10.6	8.3		
11/3/2009 11:45	0.338	0.338	0.404	10.5	240	10.6	8.3		
11/3/2009 12:00	0.34	0.34	0.413	10.8	240	10.5	8.4		
11/3/2009 12:15	0.339	0.339	0.408	11	240	10.5	8.4		
11/3/2009 12:30	0.341	0.341	0.418	11.1	240	10.3	8.4		
11/3/2009 12:45	0.343	0.343	0.428	11.2	240	10.4	8.4		
11/3/2009 13:00	0.335	0.335	0.390	11.2	242	10.4	8.4		
11/3/2009 13:15	0.333	0.333	0.381	11.3	242	10.3	8.4		
11/3/2009 13:30	0.341	0.341	0.418	11.4	244	10.3	8.4		
11/3/2009 13:45	0.339	0.339	0.408	11.4	244	10.3	8.4		
11/3/2009 14:00	0.335	0.335	0.390	11.5	242	10.3	8.4		
11/3/2009 14:15	0.337	0.337	0.399	11.6	244	10.2	8.4		
11/3/2009 14:30	0.335	0.335	0.390	11.6	244	10.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/3/2009 14:45	0.334	0.334	0.385	11.7	246	10.2	8.4		
11/3/2009 15:00	0.335	0.335	0.390	11.7	246	10.2	8.4		
11/3/2009 15:15	0.332	0.332	0.377	11.7	246	10.2	8.4		
11/3/2009 15:30	0.335	0.335	0.390	11.6	232	10.2	8.4		
11/3/2009 15:45	0.335	0.335	0.390	11.6	246	10.2	8.4		
11/3/2009 16:00	0.333	0.333	0.381	11.6	246	10.2	8.4		
11/3/2009 16:15	0.335	0.335	0.390	11.5	248	10.2	8.4		
11/3/2009 16:30	0.333	0.333	0.381	11.5	248	10.3	8.4		
11/3/2009 16:45	0.333	0.333	0.381	11.4	246	10.3	8.4		
11/3/2009 17:00	0.331	0.331	0.372	11.3	248	10.3	8.4		
11/3/2009 17:15	0.331	0.331	0.372	11.2	248	10.3	8.4		
11/3/2009 17:30	0.335	0.335	0.390	11.1	248	10.3	8.4		
11/3/2009 17:45	0.33	0.33	0.368	11.1	250	10.3	8.4		
11/3/2009 18:00	0.331	0.331	0.372	11	250	10.4	8.4		
11/3/2009 18:15	0.329	0.329	0.364	10.9	250	10.3	8.4		
11/3/2009 18:30	0.333	0.333	0.381	10.8	250	10.4	8.4		
11/3/2009 18:45	0.328	0.328	0.359	10.7	250	10.4	8.4		
11/3/2009 19:00	0.328	0.328	0.359	10.6	250	10.4	8.4		
11/3/2009 19:15	0.324	0.324	0.343	10.5	250	10.5	8.4		
11/3/2009 19:30	0.325	0.325	0.347	10.4	250	10.5	8.4		
11/3/2009 19:45	0.328	0.328	0.359	10.3	252	10.5	8.4		
11/3/2009 20:00	0.33	0.33	0.368	10.2	252	10.5	8.4		
11/3/2009 20:15	0.323	0.323	0.339	10.1	252	10.6	8.4		
11/3/2009 20:30	0.325	0.325	0.347	10	252	10.6	8.4		
11/3/2009 20:45	0.33	0.33	0.368	9.9	252	10.6	8.4		
11/3/2009 21:00	0.326	0.326	0.351	9.8	252	10.6	8.4		
11/3/2009 21:15	0.325	0.325	0.347	9.7	254	10.7	8.4		
11/3/2009 21:30	0.326	0.326	0.351	9.6	254	10.7	8.4		
11/3/2009 21:45	0.327	0.327	0.355	9.5	254	10.7	8.4		
11/3/2009 22:00	0.324	0.324	0.343	9.4	256	10.7	8.4		
11/3/2009 22:15	0.32	0.32	0.327	9.4	256	10.8	8.4		
11/3/2009 22:30	0.324	0.324	0.343	9.3	256	10.8	8.4		
11/3/2009 22:45	0.325	0.325	0.347	9.2	256	10.9	8.4		
11/3/2009 23:00	0.325	0.325	0.347	9.1	258	10.8	8.4		
11/3/2009 23:15	0.325	0.325	0.347	9	258	10.9	8.4		
11/3/2009 23:30	0.325	0.325	0.347	9	258	10.9	8.4		
11/3/2009 23:45	0.322	0.322	0.335	8.9	260	10.9	8.4		
11/4/2009 0:00	0.32	0.32	0.327	8.8	260	10.9	8.4		
11/4/2009 0:15	0.322	0.322	0.335	8.7	260	11	8.4		
11/4/2009 0:30	0.322	0.322	0.335	8.6	260	11	8.4		
11/4/2009 0:45	0.324	0.324	0.343	8.6	262	10.9	8.4		
11/4/2009 1:00	0.323	0.323	0.339	8.5	262	10.9	8.4		
11/4/2009 1:15	0.322	0.322	0.335	8.4	262	11	8.4		
11/4/2009 1:30	0.326	0.326	0.351	8.4	268	11.1	8.4		
11/4/2009 1:45	0.324	0.324	0.343	8.3	266	11.1	8.4		
11/4/2009 2:00	0.32	0.32	0.327	8.2	268	11.1	8.4		
11/4/2009 2:15	0.323	0.323	0.339	8.2	270	11.1	8.4		
11/4/2009 2:30	0.321	0.321	0.331	8.1	270	11.1	8.4		
11/4/2009 2:45	0.32	0.32	0.327	8.1	270	11.2	8.4		
11/4/2009 3:00	0.322	0.322	0.335	8	270	11.2	8.4		
11/4/2009 3:15	0.324	0.324	0.343	7.9	272	11.2	8.4		
11/4/2009 3:30	0.324	0.324	0.343	7.9	270	11.2	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/4/2009 3:45	0.322	0.322	0.335	7.8	272	11.2	8.4		
11/4/2009 4:00	0.326	0.326	0.351	7.8	272	11.3	8.4		
11/4/2009 4:15	0.326	0.326	0.351	7.7	272	11.3	8.4		
11/4/2009 4:30	0.325	0.325	0.347	7.7	272	11.2	8.4		
11/4/2009 4:45	0.325	0.325	0.347	7.6	272	11.2	8.4		
11/4/2009 5:00	0.324	0.324	0.343	7.6	272	11.2	8.4		
11/4/2009 5:15	0.323	0.323	0.339	7.5	272	11.2	8.4		
11/4/2009 5:30	0.323	0.323	0.339	7.5	272	11.3	8.4		
11/4/2009 5:45	0.325	0.325	0.347	7.4	272	11.3	8.4		
11/4/2009 6:00	0.324	0.324	0.343	7.4	272	11.4	8.4		
11/4/2009 6:15	0.326	0.326	0.351	7.4	272	11.4	8.4		
11/4/2009 6:30	0.323	0.323	0.339	7.3	274	11.4	8.4		
11/4/2009 6:45	0.323	0.323	0.339	7.3	274	11.4	8.4		
11/4/2009 7:00	0.322	0.322	0.335	7.2	274	11.5	8.4		
11/4/2009 7:15	0.322	0.322	0.335	7.2	274	11.4	8.4		
11/4/2009 7:30	0.322	0.322	0.335	7.2	274	11.5	8.4		
11/4/2009 7:45	0.322	0.322	0.335	7.2	272	11.5	8.4		
11/4/2009 8:00	0.324	0.324	0.343	7.2	276	11.5	8.4		
11/4/2009 8:15	0.325	0.325	0.347	7.2	276	11.5	8.4		
11/4/2009 8:30	0.324	0.324	0.343	7.3	276	11.5	8.4		
11/4/2009 8:45	0.321	0.321	0.331	7.3	276	11.5	8.4		
11/4/2009 9:00	0.324	0.324	0.343	7.4	276	11.4	8.4		
11/4/2009 9:15	0.323	0.323	0.339	7.5	276	11.4	8.4		
11/4/2009 9:30	0.324	0.324	0.343	7.6	276	11.4	8.4		
11/4/2009 9:45	0.322	0.322	0.335	7.7	264	11.4	8.4		
11/4/2009 10:00	0.322	0.322	0.335	7.8	278	11.3	8.4		
11/4/2009 10:15	0.321	0.321	0.331	8	278	11.3	8.4		
11/4/2009 10:30	*0.323*	***0.313***	***0.302***	8.1	278	11.3	8.4	* (23)	
11/4/2009 10:45	*0.325*	***0.315***	***0.309***	8.3	278	11.3	8.4		
11/4/2009 11:00	*0.323*	***0.313***	***0.302***	8.4	278	11.2	8.4		
11/4/2009 11:15	*0.322*	***0.312***	***0.298***	8.6	278	11.1	8.4		
11/4/2009 11:30	*0.323*	***0.313***	***0.302***	8.8	280	11	8.4		
11/4/2009 11:45	*0.323*	***0.313***	***0.302***	9	280	11	8.4		
11/4/2009 12:00	*0.326*	***0.316***	***0.313***	9.2	280	10.9	8.4		
11/4/2009 12:15	*0.324*	***0.314***	***0.305***	9.3	280	10.9	8.4		
11/4/2009 12:30	*0.322*	***0.312***	***0.298***	9.5	280	10.8	8.4		
11/4/2009 12:45	*0.316*	***0.306***	***0.278***	9.8	280	10.8	8.4		
11/4/2009 13:00	*0.319*	***0.309***	***0.288***	9.9	282	10.7	8.4		
11/4/2009 13:15	*0.317*	***0.307***	***0.282***	10.1	282	10.6	8.4		
11/4/2009 13:30	*0.321*	***0.311***	***0.295***	10.1	282	10.6	8.4		
11/4/2009 13:45	*0.317*	***0.307***	***0.282***	10.2	282	10.6	8.4		
11/4/2009 14:00	*0.315*	***0.305***	***0.275***	10.2	282	10.6	8.4		
11/4/2009 14:15	*0.317*	***0.307***	***0.282***	10.3	282	10.6	8.4		
11/4/2009 14:30	*0.315*	***0.305***	***0.275***	10.4	282	10.6	8.4		
11/4/2009 14:45	*0.318*	***0.308***	***0.285***	10.4	282	10.6	8.5		
11/4/2009 15:00	*0.319*	***0.309***	***0.288***	10.5	282	10.5	8.4		
11/4/2009 15:15	*0.317*	***0.307***	***0.282***	10.6	282	10.5	8.5		
11/4/2009 15:30	*0.314*	***0.304***	***0.272***	10.5	282	10.5	8.5		
11/4/2009 15:45	*0.315*	***0.305***	***0.275***	10.5	282	10.5	8.4		
11/4/2009 16:00	*0.315*	***0.305***	***0.275***	10.5	284	10.5	8.4		
11/4/2009 16:15	*0.315*	***0.305***	***0.275***	10.5	284	10.4	8.4		
11/4/2009 16:30	*0.315*	***0.305***	***0.275***	10.5	284	10.5	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/4/2009 16:45	*0.319*	***0.309***	***0.288***	10.5	284	10.4	8.4		
11/4/2009 17:00	*0.314*	***0.304***	***0.272***	10.5	278	10.4	8.4		
11/4/2009 17:15	*0.316*	***0.306***	***0.278***	10.5	284	10.3	8.4		
11/4/2009 17:30	*0.317*	***0.307***	***0.282***	10.4	284	10.4	8.4		
11/4/2009 17:45	*0.312*	***0.302***	***0.266***	10.4	284	10.3	8.4		
11/4/2009 18:00	*0.315*	***0.305***	***0.275***	10.4	284	10.4	8.4		
11/4/2009 18:15	*0.311*	***0.301***	***0.263***	10.3	286	10.5	8.4		
11/4/2009 18:30	*0.315*	***0.305***	***0.275***	10.2	284	10.5	8.4		
11/4/2009 18:45	*0.313*	***0.303***	***0.269***	10.2	286	10.5	8.4		
11/4/2009 19:00	*0.313*	***0.303***	***0.269***	10.1	286	10.5	8.4		
11/4/2009 19:15	*0.315*	***0.305***	***0.275***	10.1	286	10.6	8.4		
11/4/2009 19:30	*0.31*	***0.3***	***0.260***	10	286	10.6	8.4		
11/4/2009 19:45	*0.312*	***0.302***	***0.266***	9.9	286	10.6	8.4		
11/4/2009 20:00	*0.314*	***0.304***	***0.272***	9.9	286	10.6	8.4		
11/4/2009 20:15	*0.313*	***0.303***	***0.269***	9.8	286	10.7	8.4		
11/4/2009 20:30	*0.313*	***0.303***	***0.269***	9.8	286	10.6	8.4		
11/4/2009 20:45	*0.313*	***0.303***	***0.269***	9.8	288	10.7	8.4		
11/4/2009 21:00	*0.311*	***0.301***	***0.263***	9.7	288	10.6	8.4		
11/4/2009 21:15	*0.315*	***0.305***	***0.275***	9.6	288	10.7	8.4		
11/4/2009 21:30	*0.312*	***0.302***	***0.266***	9.6	288	10.6	8.4		
11/4/2009 21:45	*0.313*	***0.303***	***0.269***	9.5	288	10.8	8.4		
11/4/2009 22:00	*0.311*	***0.301***	***0.263***	9.5	288	10.7	8.4		
11/4/2009 22:15	*0.31*	***0.3***	***0.260***	9.4	288	10.6	8.4		
11/4/2009 22:30	*0.309*	***0.299***	***0.257***	9.4	290	10.8	8.4		
11/4/2009 22:45	*0.31*	***0.3***	***0.260***	9.4	290	10.8	8.4		
11/4/2009 23:00	*0.307*	***0.297***	***0.251***	9.4	290	10.7	8.4		
11/4/2009 23:15	*0.309*	***0.299***	***0.257***	9.4	272	10.7	8.4		
11/4/2009 23:30	*0.305*	***0.295***	***0.245***	9.4	290	10.7	8.4		
11/4/2009 23:45	*0.311*	***0.301***	***0.263***	9.4	290	10.8	8.4		
11/5/2009 0:00	*0.307*	***0.297***	***0.251***	9.4	290	10.8	8.4		
11/5/2009 0:15	*0.31*	***0.3***	***0.260***	9.4	290	10.7	8.4		
11/5/2009 0:30	*0.308*	***0.298***	***0.254***	9.4	290	10.7	8.4		
11/5/2009 0:45	*0.309*	***0.299***	***0.257***	9.4	292	10.8	8.4		
11/5/2009 1:00	*0.307*	***0.297***	***0.251***	9.3	292	10.6	8.4		
11/5/2009 1:15	*0.307*	***0.297***	***0.251***	9.3	294	10.7	8.4		
11/5/2009 1:30	*0.309*	***0.299***	***0.257***	9.3	292	10.7	8.4		
11/5/2009 1:45	*0.307*	***0.297***	***0.251***	9.3	292	10.8	8.4		
11/5/2009 2:00	*0.304*	***0.294***	***0.242***	9.2	292	10.8	8.4		
11/5/2009 2:15	*0.307*	***0.297***	***0.251***	9.2	292	10.8	8.4		
11/5/2009 2:30	*0.306*	***0.296***	***0.248***	9.2	292	10.8	8.4		
11/5/2009 2:45	*0.306*	***0.296***	***0.248***	9.1	294	10.9	8.4		
11/5/2009 3:00	*0.307*	***0.297***	***0.251***	9.1	294	10.8	8.4		
11/5/2009 3:15	*0.303*	***0.293***	***0.239***	9.1	294	10.8	8.4		
11/5/2009 3:30	*0.307*	***0.297***	***0.251***	9	294	10.9	8.4		
11/5/2009 3:45	*0.307*	***0.297***	***0.251***	9	294	10.9	8.4		
11/5/2009 4:00	*0.305*	***0.295***	***0.245***	8.9	294	10.9	8.4		
11/5/2009 4:15	*0.309*	***0.299***	***0.257***	8.9	294	10.9	8.4		
11/5/2009 4:30	*0.306*	***0.296***	***0.248***	8.8	296	11	8.4		
11/5/2009 4:45	*0.304*	***0.294***	***0.242***	8.8	296	10.9	8.4		
11/5/2009 5:00	*0.306*	***0.296***	***0.248***	8.8	296	10.9	8.4		
11/5/2009 5:15	*0.303*	***0.293***	***0.239***	8.7	296	11	8.4		
11/5/2009 5:30	*0.306*	***0.296***	***0.248***	8.7	296	11	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/5/2009 5:45	*0.305*	***0.295***	***0.245***	8.6	290	11	8.4		
11/5/2009 6:00	*0.308*	***0.298***	***0.254***	8.6	298	11	8.4		
11/5/2009 6:15	*0.305*	***0.295***	***0.245***	8.5	298	11	8.4		
11/5/2009 6:30	*0.307*	***0.297***	***0.251***	8.5	298	11	8.4		
11/5/2009 6:45	*0.307*	***0.297***	***0.251***	8.4	298	11.1	8.4		
11/5/2009 7:00	*0.306*	***0.296***	***0.248***	8.4	298	11.1	8.4		
11/5/2009 7:15	*0.307*	***0.297***	***0.251***	8.3	298	11.1	8.4		
11/5/2009 7:30	*0.304*	***0.294***	***0.242***	8.3	298	11.1	8.4		
11/5/2009 7:45	*0.305*	***0.295***	***0.245***	8.3	300	11.2	8.4		
11/5/2009 8:00	*0.307*	***0.297***	***0.251***	8.2	296	11.2	8.4		
11/5/2009 8:15	*0.304*	***0.294***	***0.242***	8.3	296	11.2	8.4		
11/5/2009 8:30	*0.304*	***0.294***	***0.242***	8.3	300	11.2	8.4		
11/5/2009 8:45	*0.306*	***0.296***	***0.248***	8.4	300	11.1	8.4		
11/5/2009 9:00	*0.305*	***0.295***	***0.245***	8.5	300	11.1	8.4		
11/5/2009 9:15	*0.305*	***0.295***	***0.245***	8.6	300	11.2	8.4		
11/5/2009 9:30	*0.304*	***0.294***	***0.242***	8.7	298	11.1	8.4		
11/5/2009 9:45	*0.306*	***0.296***	***0.248***	8.8	300	11.1	8.4		
11/5/2009 10:00	*0.306*	***0.296***	***0.248***	9	300	11	8.4		
11/5/2009 10:15	*0.304*	***0.294***	***0.242***	9.1	300	11	8.4		
11/5/2009 10:30	*0.304*	***0.294***	***0.242***	9.2	302	11	8.4		
11/5/2009 10:45	*0.3*	***0.29***	***0.231***	9.3	302	11	8.5		
11/5/2009 11:00	*0.304*	***0.294***	***0.242***	9.3	298	11	8.5		
11/5/2009 11:15	*0.306*	***0.286***	***0.221***	9.4	298	11	8.5	* (24)	
11/5/2009 11:30	*0.304*	***0.284***	***0.215***	9.5	302	10.9	8.5		
11/5/2009 11:45	*0.304*	***0.284***	***0.215***	9.6	302	10.8	8.5		
11/5/2009 12:00	*0.304*	***0.284***	***0.215***	9.7	302	10.8	8.5		
11/5/2009 12:15	*0.303*	***0.283***	***0.213***	9.8	304	10.8	8.5		
11/5/2009 12:30	*0.299*	***0.279***	***0.203***	9.9	304	10.7	8.5		
11/5/2009 12:45	*0.302*	***0.282***	***0.211***	10	304	10.7	8.5		
11/5/2009 13:00	*0.299*	***0.279***	***0.203***	10.1	304	10.7	8.5		
11/5/2009 13:15	*0.303*	***0.283***	***0.213***	10.2	304	10.7	8.5		
11/5/2009 13:30	*0.303*	***0.283***	***0.213***	10.3	304	10.7	8.5		
11/5/2009 13:45	*0.3*	***0.28***	***0.206***	10.3	304	10.7	8.5		
11/5/2009 14:00	*0.304*	***0.284***	***0.215***	10.4	306	10.6	8.5		
11/5/2009 14:15	*0.301*	***0.281***	***0.208***	10.5	306	10.6	8.5		
11/5/2009 14:30	*0.302*	***0.282***	***0.211***	10.5	306	10.6	8.5		
11/5/2009 14:45	*0.304*	***0.284***	***0.215***	10.6	306	10.5	8.5		
11/5/2009 15:00	*0.302*	***0.282***	***0.211***	10.6	306	10.5	8.5		
11/5/2009 15:15	*0.301*	***0.281***	***0.208***	10.6	306	10.5	8.5		
11/5/2009 15:30	*0.302*	***0.282***	***0.211***	10.6	304	10.5	8.5		
11/5/2009 15:45	*0.301*	***0.281***	***0.208***	10.6	304	10.5	8.5		
11/5/2009 16:00	*0.302*	***0.282***	***0.211***	10.6	304	10.5	8.5		
11/5/2009 16:15	*0.301*	***0.281***	***0.208***	10.6	304	10.5	8.5		
11/5/2009 16:30	*0.301*	***0.281***	***0.208***	10.5	302	10.5	8.5		
11/5/2009 16:45	*0.302*	***0.282***	***0.211***	10.5	302	10.5	8.5		
11/5/2009 17:00	*0.302*	***0.282***	***0.211***	10.4	306	10.5	8.5		
11/5/2009 17:15	*0.302*	***0.282***	***0.211***	10.3	308	10.5	8.5		
11/5/2009 17:30	*0.302*	***0.282***	***0.211***	10.2	310	10.5	8.5		
11/5/2009 17:45	*0.3*	***0.28***	***0.206***	10.2	310	10.5	8.5		
11/5/2009 18:00	*0.301*	***0.281***	***0.208***	10.1	310	10.6	8.5		
11/5/2009 18:15	*0.301*	***0.281***	***0.208***	10	310	10.6	8.5		
11/5/2009 18:30	*0.301*	***0.281***	***0.208***	9.9	310	10.6	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/5/2009 18:45	*0.304*	***0.284***	***0.215***	9.8	308	10.6	8.4		
11/5/2009 19:00	*0.302*	***0.282***	***0.211***	9.7	306	10.7	8.4		
11/5/2009 19:15	*0.302*	***0.282***	***0.211***	9.6	312	10.7	8.4		
11/5/2009 19:30	*0.298*	***0.278***	***0.201***	9.5	312	10.8	8.4		
11/5/2009 19:45	*0.298*	***0.278***	***0.201***	9.4	312	10.8	8.4		
11/5/2009 20:00	*0.302*	***0.282***	***0.211***	9.3	312	10.8	8.4		
11/5/2009 20:15	*0.301*	***0.281***	***0.208***	9.2	312	10.8	8.4		
11/5/2009 20:30	*0.297*	***0.277***	***0.199***	9.1	310	10.8	8.4		
11/5/2009 20:45	*0.302*	***0.282***	***0.211***	9.1	314	10.9	8.4		
11/5/2009 21:00	*0.298*	***0.278***	***0.201***	9	312	10.9	8.4		
11/5/2009 21:15	*0.298*	***0.278***	***0.201***	8.9	314	10.9	8.4		
11/5/2009 21:30	*0.3*	***0.28***	***0.206***	8.8	314	11	8.4		
11/5/2009 21:45	*0.3*	***0.28***	***0.206***	8.7	312	11	8.4		
11/5/2009 22:00	*0.301*	***0.281***	***0.208***	8.6	310	11	8.4		
11/5/2009 22:15	*0.298*	***0.278***	***0.201***	8.6	310	11	8.4		
11/5/2009 22:30	*0.302*	***0.282***	***0.211***	8.5	310	11.1	8.4		
11/5/2009 22:45	*0.299*	***0.279***	***0.203***	8.4	310	11	8.4		
11/5/2009 23:00	*0.298*	***0.278***	***0.201***	8.3	312	11.1	8.4		
11/5/2009 23:15	*0.299*	***0.279***	***0.203***	8.3	312	11.1	8.4		
11/5/2009 23:30	*0.3*	***0.28***	***0.206***	8.2	312	11.1	8.4		
11/5/2009 23:45	*0.3*	***0.28***	***0.206***	8.1	312	11.1	8.4		
11/6/2009 0:00	*0.297*	***0.277***	***0.199***	8	312	11.1	8.4		
11/6/2009 0:15	*0.3*	***0.28***	***0.206***	8	312	11.2	8.4		
11/6/2009 0:30	*0.297*	***0.277***	***0.199***	7.9	312	11.2	8.4		
11/6/2009 0:45	*0.299*	***0.279***	***0.203***	7.8	314	11.2	8.4		
11/6/2009 1:00	*0.297*	***0.277***	***0.199***	7.8	314	11.3	8.4		
11/6/2009 1:15	*0.299*	***0.279***	***0.203***	7.7	314	11.2	8.4		
11/6/2009 1:30	*0.297*	***0.277***	***0.199***	7.6	314	11.3	8.4		
11/6/2009 1:45	*0.301*	***0.281***	***0.208***	7.6	314	11.3	8.4		
11/6/2009 2:00	*0.299*	***0.279***	***0.203***	7.5	314	11.3	8.4		
11/6/2009 2:15	*0.298*	***0.278***	***0.201***	7.4	310	11.3	8.4		
11/6/2009 2:30	*0.297*	***0.277***	***0.199***	7.4	316	11.4	8.4		
11/6/2009 2:45	*0.297*	***0.277***	***0.199***	7.3	314	11.4	8.4		
11/6/2009 3:00	*0.301*	***0.281***	***0.208***	7.3	316	11.4	8.4		
11/6/2009 3:15	*0.294*	***0.274***	***0.192***	7.2	316	11.4	8.4		
11/6/2009 3:30	*0.299*	***0.279***	***0.203***	7.2	316	11.4	8.4		
11/6/2009 3:45	*0.298*	***0.278***	***0.201***	7.1	316	11.5	8.4		
11/6/2009 4:00	*0.298*	***0.278***	***0.201***	7	316	11.4	8.4		
11/6/2009 4:15	*0.298*	***0.278***	***0.201***	7	316	11.5	8.4		
11/6/2009 4:30	*0.298*	***0.278***	***0.201***	6.9	300	11.5	8.4		
11/6/2009 4:45	*0.297*	***0.277***	***0.199***	6.9	318	11.5	8.4		
11/6/2009 5:00	*0.296*	***0.276***	***0.196***	6.9	318	11.5	8.4		
11/6/2009 5:15	*0.297*	***0.277***	***0.199***	6.8	318	11.5	8.4		
11/6/2009 5:30	*0.298*	***0.278***	***0.201***	6.7	318	11.6	8.4		
11/6/2009 5:45	*0.295*	***0.275***	***0.194***	6.7	318	11.6	8.4		
11/6/2009 6:00	*0.297*	***0.277***	***0.199***	6.7	316	11.6	8.4		
11/6/2009 6:15	*0.296*	***0.276***	***0.196***	6.6	310	11.6	8.4		
11/6/2009 6:30	*0.296*	***0.276***	***0.196***	6.6	306	11.6	8.4		
11/6/2009 6:45	*0.295*	***0.275***	***0.194***	6.5	320	11.6	8.4		
11/6/2009 7:00	*0.297*	***0.277***	***0.199***	6.5	320	11.7	8.4		
11/6/2009 7:15	*0.294*	***0.274***	***0.192***	6.4	320	11.6	8.4		
11/6/2009 7:30	*0.296*	***0.276***	***0.196***	6.4	320	11.7	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/6/2009 7:45	*0.296*	***0.276***	***0.196***	6.4	320	11.7	8.4		
11/6/2009 8:00	*0.294*	***0.274***	***0.192***	6.4	322	11.7	8.4		
11/6/2009 8:15	*0.297*	***0.277***	***0.199***	6.4	318	11.7	8.4		
11/6/2009 8:30	*0.295*	***0.275***	***0.194***	6.4	320	11.7	8.4		
11/6/2009 8:45	*0.296*	***0.276***	***0.196***	6.5	310	11.7	8.4		
11/6/2009 9:00	*0.296*	***0.276***	***0.196***	6.6	322	11.7	8.4		
11/6/2009 9:15	*0.296*	***0.276***	***0.196***	6.6	322	11.7	8.4		
11/6/2009 9:30	*0.299*	***0.279***	***0.203***	6.7	320	11.7	8.4		
11/6/2009 9:45	*0.297*	***0.277***	***0.199***	6.8	288	11.7	8.4		
11/6/2009 10:00	*0.296*	***0.276***	***0.196***	7	322	11.6	8.4		
11/6/2009 10:15	*0.296*	***0.276***	***0.196***	7.1	322	11.6	8.4		
11/6/2009 10:30	*0.297*	***0.277***	***0.199***	7.2	310	11.5	8.5		
11/6/2009 10:45	*0.297*	***0.277***	***0.199***	7.3	322	11.6	8.5		
11/6/2009 11:00	*0.296*	***0.276***	***0.196***	7.5	320	11.5	8.5		
11/6/2009 11:15	*0.294*	***0.274***	***0.192***	7.6	324	11.5	8.5		
11/6/2009 11:30	*0.294*	***0.274***	***0.192***	7.8	324	11.4	8.5		
11/6/2009 11:45	*0.296*	***0.276***	***0.196***	8	324	11.3	8.5		
11/6/2009 12:00	*0.296*	***0.276***	***0.196***	8.1	322	11.2	8.5		
11/6/2009 12:15	*0.295*	***0.265***	***0.173***	8.3	322	11.2	8.5	* (25)	
11/6/2009 12:30	*0.297*	***0.267***	***0.177***	8.5	322	11.2	8.5		
11/6/2009 12:45	*0.293*	***0.263***	***0.169***	8.7	322	11.1	8.5		
11/6/2009 13:00	*0.297*	***0.267***	***0.177***	8.9	322	11.1	8.5		
11/6/2009 13:15	*0.294*	***0.264***	***0.171***	9	322	11	8.5		
11/6/2009 13:30	*0.297*	***0.267***	***0.177***	9.2	324	10.9	8.5		
11/6/2009 13:45	*0.296*	***0.266***	***0.175***	9.3	324	10.9	8.5		
11/6/2009 14:00	*0.296*	***0.266***	***0.175***	9.4	316	10.8	8.5		
11/6/2009 14:15	*0.295*	***0.265***	***0.173***	9.5	322	10.8	8.5		
11/6/2009 14:30	*0.297*	***0.267***	***0.177***	9.6	318	10.8	8.5		
11/6/2009 14:45	*0.295*	***0.265***	***0.173***	9.7	324	10.7	8.5		
11/6/2009 15:00	*0.293*	***0.263***	***0.169***	9.8	324	10.7	8.5		
11/6/2009 15:15	*0.293*	***0.263***	***0.169***	9.9	324	10.6	8.5		
11/6/2009 15:30	*0.294*	***0.264***	***0.171***	10	326	10.6	8.5		
11/6/2009 15:45	*0.293*	***0.263***	***0.169***	10	322	10.6	8.5		
11/6/2009 16:00	*0.294*	***0.264***	***0.171***	10	324	10.6	8.5		
11/6/2009 16:15	*0.293*	***0.263***	***0.169***	10.1	316	10.6	8.5		
11/6/2009 16:30	*0.293*	***0.263***	***0.169***	10	296	10.6	8.5		
11/6/2009 16:45	*0.291*	***0.261***	***0.165***	10	326	10.6	8.5		
11/6/2009 17:00	*0.294*	***0.264***	***0.171***	10	326	10.6	8.5		
11/6/2009 17:15	*0.292*	***0.262***	***0.167***	9.9	324	10.6	8.5		
11/6/2009 17:30	*0.294*	***0.264***	***0.171***	9.9	316	10.6	8.5		
11/6/2009 17:45	*0.293*	***0.263***	***0.169***	9.8	328	10.6	8.5		
11/6/2009 18:00	*0.295*	***0.265***	***0.173***	9.7	328	10.6	8.5		
11/6/2009 18:15	*0.296*	***0.266***	***0.175***	9.6	328	10.7	8.5		
11/6/2009 18:30	*0.294*	***0.264***	***0.171***	9.6	314	10.7	8.5		
11/6/2009 18:45	*0.294*	***0.264***	***0.171***	9.5	328	10.7	8.5		
11/6/2009 19:00	*0.295*	***0.265***	***0.173***	9.4	328	10.7	8.5		
11/6/2009 19:15	*0.293*	***0.263***	***0.169***	9.3	330	10.7	8.5		
11/6/2009 19:30	*0.294*	***0.264***	***0.171***	9.3	330	10.8	8.5		
11/6/2009 19:45	*0.293*	***0.263***	***0.169***	9.2	330	10.8	8.5		
11/6/2009 20:00	*0.291*	***0.261***	***0.165***	9.1	330	10.8	8.5		
11/6/2009 20:15	*0.292*	***0.262***	***0.167***	9	330	10.8	8.5		
11/6/2009 20:30	*0.291*	***0.261***	***0.165***	9	326	10.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/6/2009 20:45	*0.293*	***0.263***	***0.169***	8.9	326	10.9	8.5		
11/6/2009 21:00	*0.295*	***0.265***	***0.173***	8.8	324	10.9	8.5		
11/6/2009 21:15	*0.293*	***0.263***	***0.169***	8.8	320	10.9	8.5		
11/6/2009 21:30	*0.294*	***0.264***	***0.171***	8.7	330	10.9	8.5		
11/6/2009 21:45	*0.292*	***0.262***	***0.167***	8.6	312	10.9	8.5		
11/6/2009 22:00	*0.295*	***0.265***	***0.173***	8.6	330	10.9	8.5		
11/6/2009 22:15	*0.294*	***0.264***	***0.171***	8.5	330	11	8.5		
11/6/2009 22:30	*0.294*	***0.264***	***0.171***	8.4	330	11	8.5		
11/6/2009 22:45	*0.291*	***0.261***	***0.165***	8.4	332	11	8.5		
11/6/2009 23:00	*0.292*	***0.262***	***0.167***	8.3	320	11.1	8.5		
11/6/2009 23:15	*0.294*	***0.264***	***0.171***	8.3	332	11.1	8.5		
11/6/2009 23:30	*0.294*	***0.264***	***0.171***	8.2	332	11.1	8.5		
11/6/2009 23:45	*0.293*	***0.263***	***0.169***	8.1	332	11.1	8.5		
11/7/2009 0:00	*0.29*	***0.26***	***0.163***	8.1	332	11.1	8.5		
11/7/2009 0:15	*0.292*	***0.262***	***0.167***	8	332	11.1	8.5		
11/7/2009 0:30	*0.291*	***0.261***	***0.165***	8	332	11.1	8.5		
11/7/2009 0:45	*0.289*	***0.259***	***0.161***	7.9	332	11.1	8.5		
11/7/2009 1:00	*0.293*	***0.263***	***0.169***	7.9	334	11.1	8.5		
11/7/2009 1:15	*0.292*	***0.262***	***0.167***	7.8	334	11.1	8.5		
11/7/2009 1:30	*0.293*	***0.263***	***0.169***	7.8	320	11.2	8.5		
11/7/2009 1:45	*0.293*	***0.263***	***0.169***	7.7	334	11.2	8.5		
11/7/2009 2:00	*0.289*	***0.259***	***0.161***	7.7	334	11.2	8.5		
11/7/2009 2:15	*0.291*	***0.261***	***0.165***	7.6	334	11.2	8.5		
11/7/2009 2:30	*0.291*	***0.261***	***0.165***	7.6	*334*	11.2	8.5		
11/7/2009 2:45	*0.292*	***0.262***	***0.167***	7.6	*330*	11.2	8.5		
11/7/2009 3:00	*0.29*	***0.26***	***0.163***	7.6	*316*	11.2	8.5		
11/7/2009 3:15	*0.29*	***0.26***	***0.163***	7.7	*328*	11.2	8.5		
11/7/2009 3:30	*0.288*	***0.258***	***0.159***	7.7	*322*	11.2	8.5		
11/7/2009 3:45	*0.29*	***0.26***	***0.163***	7.7	*326*	11.2	8.5		
11/7/2009 4:00	*0.289*	***0.259***	***0.161***	7.8	*310*	11.2	8.5		
11/7/2009 4:15	*0.291*	***0.261***	***0.165***	7.8	*322*	11.1	8.5		
11/7/2009 4:30	*0.291*	***0.261***	***0.165***	7.8	*326*	11.2	8.5		
11/7/2009 4:45	*0.291*	***0.261***	***0.165***	7.9	*330*	11.2	8.5		
11/7/2009 5:00	*0.289*	***0.259***	***0.161***	7.9	*330*	11.1	8.5		
11/7/2009 5:15	*0.287*	***0.257***	***0.157***	7.9	*332*	11.1	8.5		
11/7/2009 5:30	*0.289*	***0.259***	***0.161***	8	*326*	11.1	8.5		
11/7/2009 5:45	*0.291*	***0.261***	***0.165***	8	*328*	11.1	8.5		
11/7/2009 6:00	*0.289*	***0.259***	***0.161***	8	*330*	11.1	8.5		
11/7/2009 6:15	*0.293*	***0.263***	***0.169***	8	*332*	11.1	8.5		
11/7/2009 6:30	*0.289*	***0.259***	***0.161***	8	*332*	11.1	8.5		
11/7/2009 6:45	*0.289*	***0.259***	***0.161***	8	*334*	11.1	8.5		
11/7/2009 7:00	*0.29*	***0.26***	***0.163***	8	*328*	11.1	8.5		
11/7/2009 7:15	*0.292*	***0.262***	***0.167***	8	*304*	11.1	8.5		
11/7/2009 7:30	*0.292*	***0.262***	***0.167***	8.1	*326*	11.1	8.5		
11/7/2009 7:45	*0.289*	***0.259***	***0.161***	8.1	*338*	11.1	8.5		
11/7/2009 8:00	*0.291*	***0.261***	***0.165***	8.1	*322*	11.1	8.5		
11/7/2009 8:15	*0.289*	***0.259***	***0.161***	8.2	*324*	11.1	8.5		
11/7/2009 8:30	*0.291*	***0.261***	***0.165***	8.3	*324*	11.1	8.5		
11/7/2009 8:45	*0.29*	***0.26***	***0.163***	8.4	*326*	11.1	8.5		
11/7/2009 9:00	*0.291*	***0.261***	***0.165***	8.5	*328*	11.1	8.5		
11/7/2009 9:15	*0.287*	***0.257***	***0.157***	8.7	*322*	11	8.5		
11/7/2009 9:30	*0.289*	***0.259***	***0.161***	8.8	*322*	11	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/7/2009 9:45	*0.289*	***0.259***	***0.161***	8.9	*318*	11	8.5		
11/7/2009 10:00	*0.291*	***0.261***	***0.165***	9	*332*	11	8.5		
11/7/2009 10:15	*0.288*	***0.258***	***0.159***	9.1	*312*	10.9	8.5		
11/7/2009 10:30	*0.289*	***0.259***	***0.161***	9.2	*330*	10.9	8.5		
11/7/2009 10:45	*0.289*	***0.259***	***0.161***	9.3	*318*	10.9	8.6		
11/7/2009 11:00	*0.289*	***0.259***	***0.161***	9.4	*332*	10.8	8.6		
11/7/2009 11:15	*0.29*	***0.26***	***0.163***	9.5	*320*	10.8	8.6		
11/7/2009 11:30	*0.289*	***0.259***	***0.161***	9.6	*292*	10.7	8.6		
11/7/2009 11:45	*0.289*	***0.259***	***0.161***	9.8	*322*	10.7	8.6		
11/7/2009 12:00	*0.287*	***0.257***	***0.157***	9.9	*314*	10.7	8.6		
11/7/2009 12:15	*0.291*	***0.261***	***0.165***	10	*334*	10.6	8.6		
11/7/2009 12:30	*0.288*	***0.258***	***0.159***	10.1	*332*	10.6	8.6		
11/7/2009 12:45	*0.289*	***0.259***	***0.161***	10.3	*320*	10.6	8.6		
11/7/2009 13:00	*0.29*	***0.26***	***0.163***	10.4	*290*	10.5	8.6		
11/7/2009 13:15	*0.29*	***0.26***	***0.163***	10.5	*308*	10.5	8.6		
11/7/2009 13:30	*0.289*	***0.249***	***0.143***	10.6	*334*	10.4	8.6	* (26)	
11/7/2009 13:45	*0.289*	***0.249***	***0.143***	10.7	*332*	10.4	8.6		
11/7/2009 14:00	*0.289*	***0.249***	***0.143***	10.8	*322*	10.4	8.6		
11/7/2009 14:15	*0.288*	***0.248***	***0.142***	10.9	*304*	10.4	8.6		
11/7/2009 14:30	*0.291*	***0.251***	***0.147***	10.9	*330*	10.3	8.6		
11/7/2009 14:45	*0.289*	***0.249***	***0.143***	11	*334*	10.3	8.6		
11/7/2009 15:00	*0.289*	***0.249***	***0.143***	11.1	*320*	10.3	8.6		
11/7/2009 15:15	*0.29*	***0.25***	***0.145***	11.1	*316*	10.3	8.6		
11/7/2009 15:30	*0.288*	***0.248***	***0.142***	11.2	*316*	10.3	8.6		
11/7/2009 15:45	*0.291*	***0.251***	***0.147***	11.2	*314*	10.2	8.6		
11/7/2009 16:00	*0.291*	***0.251***	***0.147***	11.2	*320*	10.2	8.6		
11/7/2009 16:15	*0.289*	***0.249***	***0.143***	11.2	*330*	10.2	8.6		
11/7/2009 16:30	*0.287*	***0.247***	***0.140***	11.2	*330*	10.2	8.6		
11/7/2009 16:45	*0.288*	***0.248***	***0.142***	11.2	*332*	10.2	8.6		
11/7/2009 17:00	*0.289*	***0.249***	***0.143***	11.1	*330*	10.2	8.6		
11/7/2009 17:15	*0.289*	***0.249***	***0.143***	11	*326*	10.2	8.6		
11/7/2009 17:30	*0.291*	***0.251***	***0.147***	11	*328*	10.3	8.5		
11/7/2009 17:45	*0.29*	***0.25***	***0.145***	10.9	*318*	10.2	8.5		
11/7/2009 18:00	*0.289*	***0.249***	***0.143***	10.8	*330*	10.3	8.5		
11/7/2009 18:15	*0.289*	***0.249***	***0.143***	10.7	*332*	10.3	8.5		
11/7/2009 18:30	*0.288*	***0.248***	***0.142***	10.7	*330*	10.3	8.5		
11/7/2009 18:45	*0.289*	***0.249***	***0.143***	10.6	*312*	10.3	8.5		
11/7/2009 19:00	*0.288*	***0.248***	***0.142***	10.5	*326*	10.4	8.5		
11/7/2009 19:15	*0.29*	***0.25***	***0.145***	10.4	*328*	10.4	8.5		
11/7/2009 19:30	*0.289*	***0.249***	***0.143***	10.3	*328*	10.4	8.5		
11/7/2009 19:45	*0.287*	***0.247***	***0.140***	10.3	*326*	10.4	8.5		
11/7/2009 20:00	*0.285*	***0.245***	***0.137***	10.2	*328*	10.5	8.5		
11/7/2009 20:15	*0.289*	***0.249***	***0.143***	10.1	*322*	10.4	8.5		
11/7/2009 20:30	*0.289*	***0.249***	***0.143***	10.1	*320*	10.5	8.5		
11/7/2009 20:45	*0.289*	***0.249***	***0.143***	10	*328*	10.5	8.5		
11/7/2009 21:00	*0.287*	***0.247***	***0.140***	9.9	*318*	10.5	8.5		
11/7/2009 21:15	*0.287*	***0.247***	***0.140***	9.9	*316*	10.5	8.5		
11/7/2009 21:30	*0.287*	***0.247***	***0.140***	9.8	*324*	10.5	8.5		
11/7/2009 21:45	*0.286*	***0.246***	***0.139***	9.8	*326*	10.6	8.5		
11/7/2009 22:00	*0.286*	***0.246***	***0.139***	9.7	*322*	10.6	8.5		
11/7/2009 22:15	*0.287*	***0.247***	***0.140***	9.6	*318*	10.6	8.5		
11/7/2009 22:30	*0.29*	***0.25***	***0.145***	9.6	*320*	10.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/7/2009 22:45	*0.287*	***0.247***	***0.140***	9.5	*308*	10.6	8.5		
11/7/2009 23:00	*0.287*	***0.247***	***0.140***	9.5	*322*	10.7	8.5		
11/7/2009 23:15	*0.286*	***0.246***	***0.139***	9.5	*312*	10.6	8.5		
11/7/2009 23:30	*0.286*	***0.246***	***0.139***	9.4	*294*	10.7	8.5		
11/7/2009 23:45	*0.285*	***0.245***	***0.137***	9.4	*316*	10.7	8.5		
11/8/2009 0:00	*0.283*	***0.243***	***0.134***	9.3	*290*	10.7	8.5		
11/8/2009 0:15	*0.285*	***0.245***	***0.137***	9.3	*318*	10.7	8.5		
11/8/2009 0:30	*0.285*	***0.245***	***0.137***	9.2	*312*	10.8	8.5		
11/8/2009 0:45	*0.285*	***0.245***	***0.137***	9.2	*302*	10.8	8.5		
11/8/2009 1:00	*0.286*	***0.246***	***0.139***	9.1	*290*	10.7	8.5		
11/8/2009 1:15	*0.287*	***0.247***	***0.140***	9.1	*302*	10.7	8.5		
11/8/2009 1:30	*0.284*	***0.244***	***0.135***	9	*302*	10.8	8.5		
11/8/2009 1:45	*0.284*	***0.244***	***0.135***	9	*300*	10.8	8.5		
11/8/2009 2:00	*0.285*	***0.245***	***0.137***	8.9	*282*	10.8	8.5		
11/8/2009 2:15	*0.285*	***0.245***	***0.137***	8.9	*292*	10.8	8.5		
11/8/2009 2:30	*0.286*	***0.246***	***0.139***	8.8	*288*	10.8	8.5		
11/8/2009 2:45	*0.286*	***0.246***	***0.139***	8.8	*298*	10.9	8.5		
11/8/2009 3:00	*0.285*	***0.245***	***0.137***	8.7	*292*	10.9	8.5		
11/8/2009 3:15	*0.285*	***0.245***	***0.137***	8.7	*284*	10.8	8.5		
11/8/2009 3:30	*0.283*	***0.243***	***0.134***	8.7	*286*	10.9	8.5		
11/8/2009 3:45	*0.284*	***0.244***	***0.135***	8.6	*286*	10.9	8.5		
11/8/2009 4:00	*0.285*	***0.245***	***0.137***	8.6	*296*	10.9	8.5		
11/8/2009 4:15	*0.285*	***0.245***	***0.137***	8.5	*288*	10.9	8.5		
11/8/2009 4:30	*0.284*	***0.244***	***0.135***	8.5	*292*	10.9	8.5		
11/8/2009 4:45	*0.283*	***0.243***	***0.134***	8.4	*282*	10.9	8.5		
11/8/2009 5:00	*0.285*	***0.245***	***0.137***	8.4	*310*	11	8.5		
11/8/2009 5:15	*0.287*	***0.247***	***0.140***	8.3	*288*	11	8.5		
11/8/2009 5:30	*0.287*	***0.247***	***0.140***	8.3	*292*	11	8.5		
11/8/2009 5:45	*0.285*	***0.245***	***0.137***	8.3	*296*	11	8.5		
11/8/2009 6:00	*0.284*	***0.244***	***0.135***	8.2	*282*	11	8.5		
11/8/2009 6:15	*0.283*	***0.243***	***0.134***	8.2	*306*	11	8.5		
11/8/2009 6:30	*0.283*	***0.243***	***0.134***	8.1	*298*	11	8.5		
11/8/2009 6:45	*0.283*	***0.243***	***0.134***	8.1	*296*	11.1	8.5		
11/8/2009 7:00	*0.281*	***0.241***	***0.131***	8	*282*	11.1	8.5		
11/8/2009 7:15	*0.283*	***0.243***	***0.134***	8	*298*	11.1	8.5		
11/8/2009 7:30	*0.284*	***0.244***	***0.135***	8	*262*	11.1	8.5		
11/8/2009 7:45	*0.282*	***0.242***	***0.132***	7.9	*276*	11.1	8.5		
11/8/2009 8:00	*0.284*	***0.244***	***0.135***	7.9	*280*	11.2	8.5		
11/8/2009 8:15	*0.281*	***0.241***	***0.131***	7.9	*270*	11.1	8.5		
11/8/2009 8:30	*0.282*	***0.242***	***0.132***	8	*266*	11.1	8.5		
11/8/2009 8:45	*0.285*	***0.245***	***0.137***	8.1	*276*	11.1	8.5		
11/8/2009 9:00	*0.282*	***0.242***	***0.132***	8.2	*280*	11.1	8.5		
11/8/2009 9:15	*0.285*	***0.245***	***0.137***	8.3	*278*	11.1	8.5		
11/8/2009 9:30	*0.282*	***0.242***	***0.132***	8.4	*194*	11.1	8.5		
11/8/2009 9:45	*0.282*	***0.242***	***0.132***	8.5	*282*	11.1	8.5		
11/8/2009 10:00	*0.283*	***0.243***	***0.134***	8.6	*266*	11.1	8.5		
11/8/2009 10:15	*0.279*	***0.239***	***0.128***	8.8	*268*	11	8.5		
11/8/2009 10:30	*0.283*	***0.243***	***0.134***	8.9	*262*	11	8.5		
11/8/2009 10:45	*0.279*	***0.239***	***0.128***	9	*250*	11	8.5		
11/8/2009 11:00	*0.282*	***0.242***	***0.132***	9.1	*250*	10.9	8.5		
11/8/2009 11:15	*0.283*	***0.243***	***0.134***	9.3	*290*	10.9	8.6		
11/8/2009 11:30	*0.28*	***0.24***	***0.129***	9.5	*248*	10.9	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/8/2009 11:45	*0.282*	***0.242***	***0.132***	9.7	*264*	10.7	8.6		
11/8/2009 12:00	*0.279*	***0.239***	***0.128***	9.9	*284*	10.7	8.6		
11/8/2009 12:15	*0.28*	***0.24***	***0.129***	10.1	*270*	10.6	8.6		
11/8/2009 12:30	*0.2817*	***0.2417***	***0.132***	10.1	*268*	10.5	8.6	* (27)	
11/8/2009 12:45	*0.286*	***0.246***	***0.139***	10.4	*362*	10.4	8.6	* (28)	12:50
11/8/2009 13:00	0.25	0.25	0.145	10.9	*360*	10.5	8.6		
11/8/2009 13:15	0.249	0.249	0.143	11	*358*	10.4	8.6		
11/8/2009 13:30	0.25	0.25	0.145	11.1	*352*	10.4	8.6		
11/8/2009 13:45	0.246	0.246	0.139	11.2	*334*	10.3	8.6		
11/8/2009 14:00	0.248	0.248	0.142	11.4	*316*	10.3	8.6		
11/8/2009 14:15	0.247	0.247	0.140	11.6	*304*	10.3	8.6		
11/8/2009 14:30	0.25	0.25	0.145	11.7	*268*	10.2	8.6		
11/8/2009 14:45	0.247	0.247	0.140	11.9	*258*	10.1	8.6		
11/8/2009 15:00	0.245	0.245	0.137	12	*260*	10.1	8.6		
11/8/2009 15:15	0.246	0.246	0.139	12.1	*262*	10.1	8.6		
11/8/2009 15:30	0.248	0.248	0.142	12.2	*248*	10.1	8.6		
11/8/2009 15:45	0.244	0.244	0.135	12.2	*242*	10	8.6		
11/8/2009 16:00	0.245	0.245	0.137	12.2	*240*	10	8.6		
11/8/2009 16:15	0.246	0.246	0.139	12.2	*234*	10	8.6		
11/8/2009 16:30	0.245	0.245	0.137	12.2	*228*	10	8.6		
11/8/2009 16:45	0.248	0.248	0.142	12.2	*224*	10	8.6		
11/8/2009 17:00	0.245	0.245	0.137	12.1	*220*	10	8.6		
11/8/2009 17:15	0.247	0.247	0.140	12	*220*	10	8.6		
11/8/2009 17:30	0.245	0.245	0.137	11.9	*216*	10	8.6		
11/8/2009 17:45	0.245	0.245	0.137	11.8	*226*	10	8.6		
11/8/2009 18:00	0.246	0.246	0.139	11.7	*216*	10	8.6		
11/8/2009 18:15	0.245	0.245	0.137	11.6	*210*	10.1	8.6		
11/8/2009 18:30	0.244	0.244	0.135	11.5	*210*	10.1	8.6		
11/8/2009 18:45	0.244	0.244	0.135	11.4	*210*	10.1	8.6		
11/8/2009 19:00	0.245	0.245	0.137	11.3	*208*	10.1	8.5		
11/8/2009 19:15	0.244	0.244	0.135	11.2	*206*	10.2	8.5		
11/8/2009 19:30	0.244	0.244	0.135	11.1	*206*	10.2	8.5		
11/8/2009 19:45	0.243	0.243	0.134	11	*206*	10.2	8.5		
11/8/2009 20:00	0.244	0.244	0.135	10.8	*206*	10.2	8.5		
11/8/2009 20:15	0.247	0.247	0.140	10.7	*202*	10.3	8.5		
11/8/2009 20:30	0.246	0.246	0.139	10.6	*202*	10.3	8.5		
11/8/2009 20:45	0.244	0.244	0.135	10.5	*202*	10.3	8.5		
11/8/2009 21:00	0.244	0.244	0.135	10.5	*202*	10.4	8.5		
11/8/2009 21:15	0.245	0.245	0.137	10.4	*200*	10.4	8.5		
11/8/2009 21:30	0.244	0.244	0.135	10.3	*198*	10.4	8.5		
11/8/2009 21:45	0.242	0.242	0.132	10.2	*202*	10.4	8.5		
11/8/2009 22:00	0.245	0.245	0.137	10.1	*202*	10.5	8.5		
11/8/2009 22:15	0.246	0.246	0.139	10	*202*	10.5	8.5		
11/8/2009 22:30	0.244	0.244	0.135	9.9	*200*	10.5	8.5		
11/8/2009 22:45	0.244	0.244	0.135	9.8	*198*	10.5	8.5		
11/8/2009 23:00	0.243	0.243	0.134	9.7	*198*	10.6	8.5		
11/8/2009 23:15	0.246	0.246	0.139	9.7	*198*	10.6	8.5		
11/8/2009 23:30	0.244	0.244	0.135	9.6	*202*	10.6	8.5		
11/8/2009 23:45	0.244	0.244	0.135	9.5	*200*	10.6	8.5		
11/9/2009 0:00	0.244	0.244	0.135	9.4	*200*	10.6	8.5		
11/9/2009 0:15	0.244	0.244	0.135	9.4	*200*	10.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/9/2009 0:30	0.244	0.244	0.135	9.3	*200*	10.7	8.5		
11/9/2009 0:45	0.246	0.246	0.139	9.3	*202*	10.7	8.5		
11/9/2009 1:00	0.242	0.242	0.132	9.2	*200*	10.7	8.5		
11/9/2009 1:15	0.24	0.24	0.129	9.2	*200*	10.7	8.5		
11/9/2009 1:30	0.243	0.243	0.134	9.2	*198*	10.7	8.5		
11/9/2009 1:45	**0.243**	**0.243**	0.134		*203*	10.7	8.5	*(29)	
11/9/2009 2:00	0.243	0.243	0.134	9.1	*208*	10.8	8.5		
11/9/2009 2:15	0.24	0.24	0.129	9.1	*206*	10.8	8.5		
11/9/2009 2:30	0.241	0.241	0.131	9	*204*	10.8	8.5		
11/9/2009 2:45	0.245	0.245	0.137	9	*204*	10.8	8.5		
11/9/2009 3:00	0.241	0.241	0.131	8.9	*202*	10.8	8.5		
11/9/2009 3:15	0.243	0.243	0.134	8.9	*204*	10.8	8.5		
11/9/2009 3:30	0.244	0.244	0.135	8.8	*202*	10.9	8.5		
11/9/2009 3:45	0.244	0.244	0.135	8.8	*202*	10.8	8.5		
11/9/2009 4:00	0.244	0.244	0.135	8.8	*202*	10.9	8.5		
11/9/2009 4:15	0.245	0.245	0.137	8.7	*204*	10.8	8.5		
11/9/2009 4:30	0.242	0.242	0.132	8.7	*204*	10.9	8.5		
11/9/2009 4:45	0.244	0.244	0.135	8.6	*204*	10.9	8.5		
11/9/2009 5:00	0.245	0.245	0.137	8.6	*204*	10.9	8.5		
11/9/2009 5:15	0.243	0.243	0.134	8.5	*202*	10.9	8.5		
11/9/2009 5:30	0.242	0.242	0.132	8.5	*202*	11	8.5		
11/9/2009 5:45	0.242	0.242	0.132	8.4	*218*	10.9	8.5		
11/9/2009 6:00	0.24	0.24	0.129	8.4	*216*	11	8.5		
11/9/2009 6:15	0.242	0.242	0.132	8.4	*216*	11	8.5		
11/9/2009 6:30	0.242	0.242	0.132	8.3	*216*	11	8.5		
11/9/2009 6:45	0.239	0.239	0.128	8.3	*222*	11	8.5		
11/9/2009 7:00	0.243	0.243	0.134	8.3	*222*	11	8.5		
11/9/2009 7:15	0.241	0.241	0.131	8.3	*218*	11	8.5		
11/9/2009 7:30	0.242	0.242	0.132	8.3	*218*	11	8.5		
11/9/2009 7:45	0.242	0.242	0.132	8.3	*216*	11	8.5		
11/9/2009 8:00	0.243	0.243	0.134	8.3	*216*	11.1	8.5		
11/9/2009 8:15	0.24	0.24	0.129	8.3	*216*	11	8.5		
11/9/2009 8:30	0.24	0.24	0.129	8.3	*216*	11.1	8.5		
11/9/2009 8:45	0.241	0.241	0.131	8.4	*216*	11	8.5		
11/9/2009 9:00	0.24	0.24	0.129	8.4	*214*	11.1	8.5		
11/9/2009 9:15	0.242	0.242	0.132	8.5	*214*	11	8.6		
11/9/2009 9:30	0.242	0.242	0.132	8.6	*214*	11	8.6		
11/9/2009 9:45	0.24	0.24	0.129	8.7	*214*	11	8.6		
11/9/2009 10:00	0.243	0.243	0.134	8.7	*212*	11	8.6		
11/9/2009 10:15	0.239	0.239	0.128	8.8	*210*	10.9	8.6		
11/9/2009 10:30	0.24	0.24	0.129	8.9	*220*	10.9	8.6		
11/9/2009 10:45	0.239	0.239	0.128	8.9	*220*	10.9	8.6		
11/9/2009 11:00	0.239	0.239	0.128	9	*218*	10.9	8.6		
11/9/2009 11:15	0.242	0.242	0.132	9.1	*218*	10.9	8.6		
11/9/2009 11:30	0.242	0.242	0.132	9.1	*212*	10.8	8.6		
11/9/2009 11:45	0.241	0.241	0.131	9.3	*212*	10.8	8.6		
11/9/2009 12:00	0.239	0.239	0.128	9.4	*212*	10.8	8.6		
11/9/2009 12:15	0.241	0.241	0.131	9.4	*212*	10.7	8.6		
11/9/2009 12:30	0.242	0.242	0.132	9.5	*210*	10.8	8.6		
11/9/2009 12:45	0.242	0.242	0.132	9.6	*210*	10.7	8.6		12:49
11/9/2009 13:00	0.242	0.242	0.132	9.7	*210*	10.7	8.6		
11/9/2009 13:15	0.241	0.241	0.131	9.9	*208*	10.6	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/9/2009 13:30	0.24	0.24	0.129	10	*208*	10.6	8.6		
11/9/2009 13:45	0.238	0.238	0.126	10.2	*206*	10.6	8.6		
11/9/2009 14:00	0.24	0.24	0.129	10.3	*206*	10.5	8.6		
11/9/2009 14:15	0.24	0.24	0.129	10.5	*206*	10.5	8.6		
11/9/2009 14:30	0.238	0.238	0.126	10.6	*206*	10.4	8.6		
11/9/2009 14:45	0.239	0.239	0.128	10.7	*204*	10.5	8.6		
11/9/2009 15:00	0.239	0.239	0.128	10.7	*204*	10.4	8.6		
11/9/2009 15:15	0.239	0.239	0.128	10.8	*204*	10.4	8.6		
11/9/2009 15:30	0.237	0.237	0.125	10.9	*204*	10.3	8.6		
11/9/2009 15:45	0.239	0.239	0.128	10.9	*204*	10.3	8.6		
11/9/2009 16:00	0.238	0.238	0.126	11	*202*	10.3	8.6		
11/9/2009 16:15	0.237	0.237	0.125	11	*202*	10.3	8.6		
11/9/2009 16:30	0.24	0.24	0.129	11	*202*	10.3	8.6		
11/9/2009 16:45	0.24	0.24	0.129	11	*200*	10.2	8.6		
11/9/2009 17:00	0.237	0.237	0.125	11	*202*	10.2	8.6		
11/9/2009 17:15	0.236	0.236	0.123	11	*202*				
11/9/2009 17:30	0.24	0.24	0.129	11	*200*	10.3	8.6		
11/9/2009 17:45	0.239	0.239	0.128	11	*200*	10.2	8.6		
11/9/2009 18:00	0.241	0.241	0.131	11	*200*	10.2	8.6		
11/9/2009 18:15	0.239	0.239	0.128	10.9	*200*	10.3	8.6		
11/9/2009 18:30	0.237	0.237	0.125	10.9	*200*	10.2	8.5		
11/9/2009 18:45	0.237	0.237	0.125	10.9	*200*	10.3	8.5		
11/9/2009 19:00	0.239	0.239	0.128	10.9	*198*	10.2	8.5		
11/9/2009 19:15	0.24	0.24	0.129	10.9	*198*	10.2	8.5		
11/9/2009 19:30	0.24	0.24	0.129	10.9	*198*	10.3	8.5		
11/9/2009 19:45	0.24	0.24	0.129	10.8	*196*	10.2	8.5		
11/9/2009 20:00	0.239	0.239	0.128	10.8	*198*	10.3	8.5		
11/9/2009 20:15	0.239	0.239	0.128	10.8	*196*	10.3	8.5		
11/9/2009 20:30	0.238	0.238	0.126	10.8	*196*	10.3	8.5		
11/9/2009 20:45	0.24	0.24	0.129	10.8	*196*	10.3	8.5		
11/9/2009 21:00	0.238	0.238	0.126	10.7	*194*	10.3	8.5		
11/9/2009 21:15	0.239	0.239	0.128	10.7	*194*	10.3	8.5		
11/9/2009 21:30	0.237	0.237	0.125	10.7	*190*	10.3	8.5		
11/9/2009 21:45	0.24	0.24	0.129	10.7	*190*	10.3	8.5		
11/9/2009 22:00	0.239	0.239	0.128	10.6	*190*	10.3	8.5		
11/9/2009 22:15	0.237	0.237	0.125	10.6	*190*	10.3	8.5		
11/9/2009 22:30	0.239	0.239	0.128	10.6	*190*	10.3	8.5		
11/9/2009 22:45	0.239	0.239	0.128	10.6	*190*	10.4	8.5		
11/9/2009 23:00	0.238	0.238	0.126	10.5	*190*	10.3	8.5		
11/9/2009 23:15	0.237	0.237	0.125	10.5	*190*	10.3	8.5		
11/9/2009 23:30	0.239	0.239	0.128	10.5	*190*	10.4	8.5		
11/9/2009 23:45	0.239	0.239	0.128	10.5	*188*	10.3	8.5		
11/10/2009 0:00	0.237	0.237	0.125	10.4	*188*	10.4	8.5		
11/10/2009 0:15	0.238	0.238	0.126	10.4	*188*	10.3	8.5		
11/10/2009 0:30	0.238	0.238	0.126	10.4	*188*	10.4	8.5		
11/10/2009 0:45	0.239	0.239	0.128	10.4	*186*	10.4	8.5		
11/10/2009 1:00	0.236	0.236	0.123	10.3	*186*	10.4	8.5		
11/10/2009 1:15	0.241	0.241	0.131	10.3	*186*	10.4	8.5		
11/10/2009 1:30	0.238	0.238	0.126	10.3	*186*	10.4	8.5		
11/10/2009 1:45	0.237	0.237	0.125	10.2	*184*	10.4	8.5		
11/10/2009 2:00	0.238	0.238	0.126	10.2	*184*	10.4	8.5		
11/10/2009 2:15	0.239	0.239	0.128	10.2	*182*	10.4	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/10/2009 2:30	0.236	0.236	0.123	10.2	*182*	10.4	8.5		
11/10/2009 2:45	0.238	0.238	0.126	10.2	*182*	10.4	8.5		
11/10/2009 3:00	0.238	0.238	0.126	10.2	*182*	10.4	8.5		
11/10/2009 3:15	0.237	0.237	0.125	10.2	*182*	10.4	8.5		
11/10/2009 3:30	0.238	0.238	0.126	10.1	*182*	10.4	8.5		
11/10/2009 3:45	0.237	0.237	0.125	10.1	*180*	10.4	8.5		
11/10/2009 4:00	0.236	0.236	0.123	10.1	*180*	10.4	8.5		
11/10/2009 4:15	0.235	0.235	0.122	10.1	*180*	10.4	8.5		
11/10/2009 4:30	0.237	0.237	0.125	10.1	*178*	10.4	8.5		
11/10/2009 4:45	0.235	0.235	0.122	10.1	*198*	10.5	8.5		
11/10/2009 5:00	0.237	0.237	0.125	10.1	*196*	10.4	8.5		
11/10/2009 5:15	0.237	0.237	0.125	10.1	*196*	10.4	8.5		
11/10/2009 5:30	0.237	0.237	0.125	10.1	*196*	10.5	8.5		
11/10/2009 5:45	0.237	0.237	0.125	10.1	*194*	10.4	8.5		
11/10/2009 6:00	0.237	0.237	0.125	10.1	*194*	10.4	8.5		
11/10/2009 6:15	0.236	0.236	0.123	10.1	*194*	10.5	8.5		
11/10/2009 6:30	0.237	0.237	0.125	10.1	*192*	10.4	8.5		
11/10/2009 6:45	0.236	0.236	0.123	10.1	*192*	10.4	8.5		
11/10/2009 7:00	0.237	0.237	0.125	10.1	*192*	10.5	8.5		
11/10/2009 7:15	0.237	0.237	0.125	10.1	*192*	10.4	8.5		
11/10/2009 7:30	0.236	0.236	0.123	10.1	*192*	10.5	8.5		
11/10/2009 7:45	0.237	0.237	0.125	10.1	*190*	10.4	8.5		
11/10/2009 8:00	0.237	0.237	0.125	10.1	*190*	10.4	8.5		
11/10/2009 8:15	0.236	0.236	0.123	10.1	*184*	10.5	8.5		
11/10/2009 8:30	0.237	0.237	0.125	10.1	*178*	10.4	8.5		
11/10/2009 8:45	0.236	0.236	0.123	10.1	*176*	10.4	8.5		
11/10/2009 9:00	0.237	0.237	0.125	10.1	*202*	10.5	8.5		
11/10/2009 9:15	0.237	0.237	0.125	10.1	*202*	10.4	8.5		
11/10/2009 9:30	0.236	0.236	0.123	10.1	*202*	10.5	8.5		
11/10/2009 9:45	0.239	0.239	0.128	10.2	*202*	10.4	8.5		
11/10/2009 10:00	0.238	0.238	0.126	10.2	*200*	10.5	8.5		
11/10/2009 10:15	0.238	0.238	0.126	10.2	*200*	10.4	8.5		
11/10/2009 10:30	0.239	0.239	0.128	10.2	*198*	10.5	8.5		
11/10/2009 10:45	0.239	0.239	0.128	10.2	*196*	10.4	8.5		
11/10/2009 11:00	0.24	0.24	0.129	10.3	*198*	10.5	8.5		
11/10/2009 11:15	0.242	0.242	0.132	10.3	*196*	10.4	8.5		
11/10/2009 11:30	0.241	0.241	0.131	10.3	*196*	10.4	8.5		
11/10/2009 11:45	0.241	0.241	0.131	10.4	*196*	10.4	8.5		
11/10/2009 12:00	0.244	0.244	0.135	10.4	*194*	10.4	8.6		
11/10/2009 12:15	0.244	0.244	0.135	10.4	*194*	10.4	8.6		
11/10/2009 12:30	0.244	0.244	0.135	10.5	*194*	10.4	8.6		
11/10/2009 12:45	0.246	0.246	0.139	10.5	*186*	10.3	8.6		12:49
11/10/2009 13:00	0.248	0.248	0.142	10.6	*166*	10.3	8.6		
11/10/2009 13:15	0.248	0.248	0.142	10.6	*186*	10.4	8.6		
11/10/2009 13:30	0.248	0.248	0.142	10.7	*180*	10.3	8.6		
11/10/2009 13:45	0.253	0.253	0.150	10.7	*176*	10.3	8.6		
11/10/2009 14:00	0.251	0.251	0.147	10.7	*178*	10.3	8.6		
11/10/2009 14:15	0.254	0.254	0.152	10.8	*176*	10.3	8.6		
11/10/2009 14:30	0.255	0.255	0.154	10.8	*174*	10.2	8.6		
11/10/2009 14:45	0.257	0.257	0.157	10.8	*178*	10.2	8.5		
11/10/2009 15:00	0.257	0.257	0.157	10.8	*186*	10.2	8.5		
11/10/2009 15:15	0.261	0.261	0.165	10.9	*190*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/10/2009 15:30	0.264	0.264	0.171	10.9	*202*	10.2	8.5		
11/10/2009 15:45	0.268	0.268	0.179	10.9	196	10.2	8.5		
11/10/2009 16:00	0.27	0.27	0.183	10.9	188	10.1	8.5		
11/10/2009 16:15	0.274	0.274	0.192	11	170	10.1	8.5		
11/10/2009 16:30	0.274	0.274	0.192	11	190	10.1	8.5		
11/10/2009 16:45	0.279	0.279	0.203	11	206	10.1	8.5		
11/10/2009 17:00	0.287	0.287	0.223	11	108	10.1	8.5		
11/10/2009 17:15	0.292	0.292	0.236	11.1	118	10.1	8.5		
11/10/2009 17:30	0.299	0.299	0.257	11.1	310	10.1	8.5		
11/10/2009 17:45	0.31	0.31	0.292	11.1	304	10.1	8.5		
11/10/2009 18:00	0.313	0.313	0.302	11.1	302	10.1	8.5		
11/10/2009 18:15	0.319	0.319	0.324	11.2	302	10.1	8.5		
11/10/2009 18:30	0.321	0.321	0.331	11.2	296	10.1	8.5		
11/10/2009 18:45	0.325	0.325	0.347	11.2	292	10.1	8.5		
11/10/2009 19:00	0.329	0.329	0.364	11.2	296	10.1	8.5		
11/10/2009 19:15	0.334	0.334	0.385	11.2	290	10.1	8.5		
11/10/2009 19:30	0.338	0.338	0.404	11.2	288	10.1	8.5		
11/10/2009 19:45	0.346	0.346	0.443	11.2	292	10.1	8.4		
11/10/2009 20:00	0.338	0.338	0.404	11.3	288	10.1	8.5		
11/10/2009 20:15	0.341	0.341	0.418	11.3	284	10.1	8.5		
11/10/2009 20:30	0.342	0.342	0.423	11.3	284	10.1	8.5		
11/10/2009 20:45	0.338	0.338	0.404	11.3	284	10	8.5		
11/10/2009 21:00	0.338	0.338	0.404	11.3	282	10.1	8.4		
11/10/2009 21:15	0.335	0.335	0.390	11.3	272	10	8.4		
11/10/2009 21:30	0.335	0.335	0.390	11.3	278	10.1	8.5		
11/10/2009 21:45	0.333	0.333	0.381	11.3	274	10	8.5		
11/10/2009 22:00	0.33	0.33	0.368	11.3	278	10	8.5		
11/10/2009 22:15	0.327	0.327	0.355	11.4	272	10.1	8.5		
11/10/2009 22:30	0.324	0.324	0.343	11.4	278	10	8.5		
11/10/2009 22:45	0.322	0.322	0.335	11.4	266	10	8.5		
11/10/2009 23:00	0.322	0.322	0.335	11.4	276	10	8.5		
11/10/2009 23:15	0.319	0.319	0.324	11.4	276	10	8.5		
11/10/2009 23:30	0.318	0.318	0.320	11.4	274	10	8.5		
11/10/2009 23:45	0.319	0.319	0.324	11.4	274	10	8.5		
11/11/2009 0:00	0.315	0.315	0.309	11.4	268	10	8.5		
11/11/2009 0:15	0.313	0.313	0.302	11.4	272	10	8.5		
11/11/2009 0:30	0.314	0.314	0.305	11.4	272	10	8.5		
11/11/2009 0:45	0.312	0.312	0.298	11.4	274	10	8.5		
11/11/2009 1:00	0.31	0.31	0.292	11.5	270	10	8.5		
11/11/2009 1:15	0.308	0.308	0.285	11.5	272	10	8.5		
11/11/2009 1:30	0.31	0.31	0.292	11.5	262	10	8.5		
11/11/2009 1:45	0.309	0.309	0.288	11.5	262	10	8.5		
11/11/2009 2:00	0.309	0.309	0.288	11.5	260	10	8.5		
11/11/2009 2:15	0.307	0.307	0.282	11.5	260	10	8.5		
11/11/2009 2:30	0.304	0.304	0.272	11.5	258	10	8.5		
11/11/2009 2:45	0.303	0.303	0.269	11.5	242	10	8.5		
11/11/2009 3:00	0.306	0.306	0.278	11.5	276	10	8.5		
11/11/2009 3:15	0.306	0.306	0.278	11.5	272	10	8.5		
11/11/2009 3:30	0.305	0.305	0.275	11.5	266	10	8.5		
11/11/2009 3:45	0.304	0.304	0.272	11.5	278	10	8.5		
11/11/2009 4:00	0.304	0.304	0.272	11.5	278	10	8.5		
11/11/2009 4:15	0.3	0.3	0.260	11.5	276	9.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/11/2009 4:30	0.302	0.302	0.266	11.5	274	10	8.5		
11/11/2009 4:45	0.298	0.298	0.254	11.5	276	10	8.5		
11/11/2009 5:00	0.3	0.3	0.260	11.5	278	10	8.5		
11/11/2009 5:15	0.299	0.299	0.257	11.5	280	10	8.5		
11/11/2009 5:30	0.298	0.298	0.254	11.5	276	10	8.5		
11/11/2009 5:45	0.298	0.298	0.254	11.5	280	10	8.5		
11/11/2009 6:00	0.298	0.298	0.254	11.4	276	10	8.5		
11/11/2009 6:15	0.301	0.301	0.263	11.4	274	10	8.5		
11/11/2009 6:30	0.299	0.299	0.257	11.4	278	10	8.4		
11/11/2009 6:45	0.297	0.297	0.251	11.3	276	10	8.5		
11/11/2009 7:00	0.299	0.299	0.257	11.3	*276*	10	8.4		
11/11/2009 7:15	0.294	0.294	0.242	11.3	*272*	10	8.4		
11/11/2009 7:30	0.297	0.297	0.251	11.3	*254*	10	8.5		
11/11/2009 7:45	0.294	0.294	0.242	11.3	*250*	10.1	8.5		
11/11/2009 8:00	0.296	0.296	0.248	11.3	*254*	10	8.5		
11/11/2009 8:15	0.294	0.294	0.242	11.3	*274*	10	8.5		
11/11/2009 8:30	0.296	0.296	0.248	11.3	*262*	10.1	8.5		
11/11/2009 8:45	0.294	0.294	0.242	11.3	*258*	10.1	8.5		
11/11/2009 9:00	0.293	0.293	0.239	11.3	*232*	10.1	8.5		
11/11/2009 9:15	0.292	0.292	0.236	11.3	*278*	10.1	8.5		
11/11/2009 9:30	0.294	0.294	0.242	11.4	*270*	10.1	8.5		
11/11/2009 9:45	0.295	0.295	0.245	11.4	*258*	10.1	8.5		
11/11/2009 10:00	0.293	0.293	0.239	11.4	*238*	10.1	8.5		
11/11/2009 10:15	0.293	0.293	0.239	11.5	*246*	10.1	8.5		
11/11/2009 10:30	0.293	0.293	0.239	11.5	*244*	10.1	8.5		
11/11/2009 10:45	0.292	0.292	0.236	11.6	*246*	10.1	8.5		
11/11/2009 11:00	0.292	0.292	0.236	11.6	*238*	10	8.5		
11/11/2009 11:15	0.29	0.29	0.231	11.7	*244*	10	8.5		
11/11/2009 11:30	0.291	0.291	0.234	11.8	*232*	10	8.5		
11/11/2009 11:45	0.29	0.29	0.231	11.9	*228*	10	8.5		
11/11/2009 12:00	0.292	0.292	0.236	12	*228*	9.9	8.5		
11/11/2009 12:15	0.293	0.293	0.239	12.1	*184*	9.9	8.5		
11/11/2009 12:30	0.293	0.293	0.239	12.1	*238*	9.9	8.5		
11/11/2009 12:45	0.289	0.289	0.228	12.2	*266*	9.9	8.5		12:49
11/11/2009 13:00	0.291	0.291	0.234	12.2	*226*	9.9	8.5		
11/11/2009 13:15	0.29	0.29	0.231	12.2	*264*	9.9	8.5		
11/11/2009 13:30	0.293	0.293	0.239	12.2	*236*	9.9	8.5		
11/11/2009 13:45	0.291	0.291	0.234	12.2	*242*	9.9	8.5		
11/11/2009 14:00	0.29	0.29	0.231	12.2	*248*	9.8	8.5		
11/11/2009 14:15	0.289	0.289	0.228	12.3	*274*	9.8	8.5		
11/11/2009 14:30	0.29	0.29	0.231	12.3	*200*	9.8	8.5		
11/11/2009 14:45	0.289	0.289	0.228	12.2	*214*	9.9	8.5		
11/11/2009 15:00	0.288	0.288	0.226	12.2	*274*	9.8	8.5		
11/11/2009 15:15	0.289	0.289	0.228	12.2	*260*	9.9	8.5		
11/11/2009 15:30	0.289	0.289	0.228	12.2	*270*	9.8	8.5		
11/11/2009 15:45	0.287	0.287	0.223	12.2	*272*	9.9	8.5		
11/11/2009 16:00	0.289	0.289	0.228	12.2	*262*	9.8	8.5		
11/11/2009 16:15	0.286	0.286	0.221	12.2	*264*	9.8	8.5		
11/11/2009 16:30	0.288	0.288	0.226	12.2	*260*	9.8	8.5		
11/11/2009 16:45	0.289	0.289	0.228	12.1	*266*	9.8	8.5		
11/11/2009 17:00	0.285	0.285	0.218	12.1	*266*	9.8	8.5		
11/11/2009 17:15	0.288	0.288	0.226	12.1	*266*	9.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/11/2009 17:30	0.286	0.286	0.221	12	*254*	9.8	8.5		
11/11/2009 17:45	0.287	0.287	0.223	12	*260*	9.8	8.5		
11/11/2009 18:00	0.287	0.287	0.223	11.9	*256*	9.8	8.5		
11/11/2009 18:15	0.287	0.287	0.223	11.9	*260*	9.9	8.5		
11/11/2009 18:30	0.285	0.285	0.218	11.9	*252*	9.8	8.5		
11/11/2009 18:45	0.285	0.285	0.218	11.8	*238*	9.9	8.5		
11/11/2009 19:00	0.288	0.288	0.226	11.8	*268*	9.9	8.5		
11/11/2009 19:15	0.285	0.285	0.218	11.7	*264*	9.9	8.5		
11/11/2009 19:30	0.287	0.287	0.223	11.7	*256*	9.9	8.5		
11/11/2009 19:45	0.286	0.286	0.221	11.6	*266*	9.9	8.5		
11/11/2009 20:00	0.285	0.285	0.218	11.6	*252*	9.9	8.5		
11/11/2009 20:15	0.285	0.285	0.218	11.6	*262*	10	8.5		
11/11/2009 20:30	0.285	0.285	0.218	11.5	*256*	9.9	8.5		
11/11/2009 20:45	0.285	0.285	0.218	11.5	*256*	9.9	8.5		
11/11/2009 21:00	0.285	0.285	0.218	11.5	*280*	9.9	8.5		
11/11/2009 21:15	0.287	0.287	0.223	11.4	*270*	10	8.5		
11/11/2009 21:30	0.286	0.286	0.221	11.4	*258*	10	8.5		
11/11/2009 21:45	0.286	0.286	0.221	11.3	*272*	10	8.4		
11/11/2009 22:00	0.286	0.286	0.221	11.3	*260*	10	8.4		
11/11/2009 22:15	0.284	0.284	0.215	11.2	*278*	10	8.4		
11/11/2009 22:30	0.285	0.285	0.218	11.2	*274*	10	8.5		
11/11/2009 22:45	0.284	0.284	0.215	11.1	*258*	10.1	8.5		
11/11/2009 23:00	0.285	0.285	0.218	11.1	*258*	10	8.4		
11/11/2009 23:15	0.283	0.283	0.213	11	*276*	10.1	8.4		
11/11/2009 23:30	0.286	0.286	0.221	10.9	*266*	10.1	8.4		
11/11/2009 23:45	0.284	0.284	0.215	10.8	*240*	10.1	8.4		
11/12/2009 0:00	0.283	0.283	0.213	10.8	*264*	10.1	8.4		
11/12/2009 0:15	0.282	0.282	0.211	10.7	*268*	10.1	8.4		
11/12/2009 0:30	0.284	0.284	0.215	10.6	*272*	10.1	8.4		
11/12/2009 0:45	0.284	0.284	0.215	10.6	*262*	10.1	8.4		
11/12/2009 1:00	0.283	0.283	0.213	10.5	*270*	10.2	8.4		
11/12/2009 1:15	0.283	0.283	0.213	10.5	*276*	10.2	8.4		
11/12/2009 1:30	0.28	0.28	0.206	10.4	*266*	10.2	8.4		
11/12/2009 1:45	0.283	0.283	0.213	10.3	*262*	10.2	8.4		
11/12/2009 2:00	0.282	0.282	0.211	10.3	*256*	10.2	8.4		
11/12/2009 2:15	0.283	0.283	0.213	10.2	*268*	10.2	8.4		
11/12/2009 2:30	0.282	0.282	0.211	10.2	*268*	10.2	8.4		
11/12/2009 2:45	0.281	0.281	0.208	10.1	*266*	10.3	8.4		
11/12/2009 3:00	0.283	0.283	0.213	10	*266*	10.3	8.4		
11/12/2009 3:15	0.28	0.28	0.206	10	*272*	10.3	8.4		
11/12/2009 3:30	0.281	0.281	0.208	9.9	*250*	10.3	8.4		
11/12/2009 3:45	0.284	0.284	0.215	9.8	*274*	10.3	8.4		
11/12/2009 4:00	0.282	0.282	0.211	9.7	*264*	10.4	8.4		
11/12/2009 4:15	0.281	0.281	0.208	9.7	*264*	10.4	8.4		
11/12/2009 4:30	0.281	0.281	0.208	9.6	*272*	10.4	8.4		
11/12/2009 4:45	0.28	0.28	0.206	9.6	*270*	10.4	8.4		
11/12/2009 5:00	0.283	0.283	0.213	9.5	*280*	10.4	8.4		
11/12/2009 5:15	0.281	0.281	0.208	9.4	*272*	10.4	8.4		
11/12/2009 5:30	0.282	0.282	0.211	9.4	*246*	10.4	8.4		
11/12/2009 5:45	0.279	0.279	0.203	9.3	*264*	10.4	8.4		
11/12/2009 6:00	0.282	0.282	0.211	9.3	*270*	10.5	8.4		
11/12/2009 6:15	0.278	0.278	0.201	9.2	*270*	10.5	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/12/2009 6:30	0.28	0.28	0.206	9.2	*262*	10.5	8.4		
11/12/2009 6:45	0.28	0.28	0.206	9.1	*266*	10.5	8.4		
11/12/2009 7:00	0.28	0.28	0.206	9.1	*272*	10.5	8.4		
11/12/2009 7:15	0.28	0.28	0.206	9	*274*	10.5	8.4		
11/12/2009 7:30	0.28	0.28	0.206	9	*274*	10.6	8.4		
11/12/2009 7:45	0.279	0.279	0.203	8.9	*280*	10.6	8.4		
11/12/2009 8:00	0.279	0.279	0.203	8.9	*256*	10.6	8.4		
11/12/2009 8:15	0.279	0.279	0.203	8.9	*262*	10.6	8.4		
11/12/2009 8:30	0.28	0.28	0.206	9	*284*	10.6	8.4		
11/12/2009 8:45	0.279	0.279	0.203	9	*284*	10.7	8.4		
11/12/2009 9:00	0.279	0.279	0.203	9.1	*268*	10.6	8.4		
11/12/2009 9:15	0.278	0.278	0.201	9.1	*284*	10.6	8.4		
11/12/2009 9:30	0.279	0.279	0.203	9.2	*264*	10.6	8.4		
11/12/2009 9:45	0.281	0.281	0.208	9.3	*284*	10.6	8.4		
11/12/2009 10:00	0.279	0.279	0.203	9.4	*266*	10.6	8.4		
11/12/2009 10:15	0.279	0.279	0.203	9.5	*268*	10.6	8.4		
11/12/2009 10:30	0.279	0.279	0.203	9.6	*266*	10.5	8.5		
11/12/2009 10:45	0.278	0.278	0.201	9.7	*258*	10.5	8.5		
11/12/2009 11:00	0.279	0.279	0.203	9.8	*262*	10.4	8.5		
11/12/2009 11:15	0.277	0.277	0.199	10	*258*	10.4	8.5		
11/12/2009 11:30	0.279	0.279	0.203	10.1	*282*	10.4	8.5		
11/12/2009 11:45	0.279	0.279	0.203	10.2	*280*	10.4	8.5		
11/12/2009 12:00	0.279	0.279	0.203	10.4	*264*	10.3	8.5		
11/12/2009 12:15	0.276	0.276	0.196	10.5	*268*	10.3	8.5		
11/12/2009 12:30	0.277	0.277	0.199	10.6	*264*	10.2	8.5		
11/12/2009 12:45	0.278	0.278	0.201	10.8	*276*	10.2	8.5		12:49
11/12/2009 13:00	0.28	0.28	0.206	10.9	*272*	10.1	8.5		
11/12/2009 13:15	0.276	0.276	0.196	11	*262*	10.1	8.5		
11/12/2009 13:30	0.277	0.277	0.199	11.1	*268*	10.1	8.5		
11/12/2009 13:45	0.275	0.275	0.194	11.1	*264*	10.1	8.5		
11/12/2009 14:00	0.277	0.277	0.199	11.2	*272*	10	8.5		
11/12/2009 14:15	0.276	0.276	0.196	11.2	*266*	10.1	8.5		
11/12/2009 14:30	0.276	0.276	0.196	11.3	*250*	10	8.5		
11/12/2009 14:45	0.278	0.278	0.201	11.3	*250*	10	8.5		
11/12/2009 15:00	0.275	0.275	0.194	11.4	*238*	10	8.5		
11/12/2009 15:15	0.278	0.278	0.201	11.4	*256*	9.9	8.5		
11/12/2009 15:30	0.277	0.277	0.199	11.4	*256*	10	8.5		
11/12/2009 15:45	0.28	0.28	0.206	11.4	*248*	9.9	8.5		
11/12/2009 16:00	0.274	0.274	0.192	11.3	*252*	9.9	8.5		
11/12/2009 16:15	0.277	0.277	0.199	11.3	*240*	10	8.5		
11/12/2009 16:30	0.276	0.276	0.196	11.2	*260*	10	8.5		
11/12/2009 16:45	0.277	0.277	0.199	11.2	*260*	10	8.5		
11/12/2009 17:00	0.276	0.276	0.196	11.1	*256*	10	8.5		
11/12/2009 17:15	0.276	0.276	0.196	11	*250*	10	8.5		
11/12/2009 17:30	0.276	0.276	0.196	11	*270*	10	8.5		
11/12/2009 17:45	0.275	0.275	0.194	10.9	*268*	10	8.5		
11/12/2009 18:00	0.277	0.277	0.199	10.8	*262*	10.1	8.5		
11/12/2009 18:15	0.278	0.278	0.201	10.7	*276*	10.1	8.5		
11/12/2009 18:30	0.276	0.276	0.196	10.6	*250*	10.1	8.5		
11/12/2009 18:45	0.275	0.275	0.194	10.6	*268*	10.1	8.5		
11/12/2009 19:00	0.272	0.272	0.187	10.5	*248*	10.2	8.5		
11/12/2009 19:15	0.279	0.279	0.203	10.4	*274*	10.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/12/2009 19:30	0.278	0.278	0.201	10.4	*262*	10.1	8.4		
11/12/2009 19:45	0.277	0.277	0.199	10.3	*274*	10.2	8.4		
11/12/2009 20:00	0.276	0.276	0.196	10.2	*276*	10.2	8.4		
11/12/2009 20:15	0.274	0.274	0.192	10.1	*262*	10.2	8.4		
11/12/2009 20:30	0.276	0.276	0.196	10.1	*262*	10.2	8.4		
11/12/2009 20:45	0.276	0.276	0.196	10	*256*	10.2	8.4		
11/12/2009 21:00	0.275	0.275	0.194	9.9	*270*	10.3	8.4		
11/12/2009 21:15	0.275	0.275	0.194	9.9	*266*	10.3	8.4		
11/12/2009 21:30	0.274	0.274	0.192	9.8	*270*	10.3	8.4		
11/12/2009 21:45	0.273	0.273	0.190	9.7	*262*	10.3	8.4		
11/12/2009 22:00	0.274	0.274	0.192	9.7	*256*	10.4	8.4		
11/12/2009 22:15	0.273	0.273	0.190	9.6	*254*	10.3	8.5		
11/12/2009 22:30	0.273	0.273	0.190	9.5	*264*	10.3	8.4		
11/12/2009 22:45	0.272	0.272	0.187	9.5	*258*	10.4	8.4		
11/12/2009 23:00	0.273	0.273	0.190	9.4	*246*	10.4	8.4		
11/12/2009 23:15	0.275	0.275	0.194	9.4	*260*	10.4	8.4		
11/12/2009 23:30	0.273	0.273	0.190	9.3	*252*	10.4	8.4		
11/12/2009 23:45	0.274	0.274	0.192	9.2	*264*	10.5	8.4		
11/13/2009 0:00	0.273	0.273	0.190	9.2	*226*	10.4	8.4		
11/13/2009 0:15	0.273	0.273	0.190	9.1	*246*	10.5	8.4		
11/13/2009 0:30	0.272	0.272	0.187	9.1	*246*	10.5	8.4		
11/13/2009 0:45	0.275	0.275	0.194	9	*246*	10.5	8.4		
11/13/2009 1:00	0.273	0.273	0.190	8.9	*248*	10.5	8.4		
11/13/2009 1:15	0.274	0.274	0.192	8.9	*244*	10.5	8.4		
11/13/2009 1:30	0.271	0.271	0.185	8.8	*242*	10.6	8.4		
11/13/2009 1:45	0.275	0.275	0.194	8.8	*270*	10.5	8.4		
11/13/2009 2:00	0.272	0.272	0.187	8.7	*238*	10.5	8.4		
11/13/2009 2:15	0.273	0.273	0.190	8.7	*270*	10.6	8.4		
11/13/2009 2:30	0.274	0.274	0.192	8.6	*266*	10.6	8.4		
11/13/2009 2:45	0.274	0.274	0.192	8.6	*254*	10.6	8.4		
11/13/2009 3:00	0.273	0.273	0.190	8.5	*256*	10.6	8.4		
11/13/2009 3:15	0.273	0.273	0.190	8.5	*256*	10.7	8.4		
11/13/2009 3:30	0.272	0.272	0.187	8.4	*258*	10.6	8.4		
11/13/2009 3:45	0.272	0.272	0.187	8.4	*266*	10.7	8.4		
11/13/2009 4:00	0.272	0.272	0.187	8.3	*264*	10.6	8.4		
11/13/2009 4:15	0.272	0.272	0.187	8.3	*242*	10.7	8.4		
11/13/2009 4:30	0.272	0.272	0.187	8.3	*268*	10.7	8.4		
11/13/2009 4:45	0.273	0.273	0.190	8.2	*266*	10.7	8.4		
11/13/2009 5:00	0.271	0.271	0.185	8.2	*274*	10.7	8.4		
11/13/2009 5:15	0.273	0.273	0.190	8.1	*238*	10.7	8.4		
11/13/2009 5:30	0.272	0.272	0.187	8.1	*272*	10.7	8.4		
11/13/2009 5:45	0.27	0.27	0.183	8	*274*	10.7	8.4		
11/13/2009 6:00	0.271	0.271	0.185	8	*270*	10.7	8.4		
11/13/2009 6:15	0.272	0.272	0.187	8	*266*	10.8	8.4		
11/13/2009 6:30	0.273	0.273	0.190	7.9	*238*	10.8	8.4		
11/13/2009 6:45	0.27	0.27	0.183	7.9	*268*	10.8	8.4		
11/13/2009 7:00	0.272	0.272	0.187	7.8	*238*	10.8	8.4		
11/13/2009 7:15	0.274	0.274	0.192	7.8	*270*	10.8	8.4		
11/13/2009 7:30	0.271	0.271	0.185	7.8	*268*	10.9	8.4		
11/13/2009 7:45	0.272	0.272	0.187	7.7	*268*	10.8	8.4		
11/13/2009 8:00	0.271	0.271	0.185	7.7	*242*	10.8	8.4		
11/13/2009 8:15	0.273	0.273	0.190	7.7	*264*	10.9	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/13/2009 8:30	0.27	0.27	0.183	7.7	*230*	10.9	8.4		
11/13/2009 8:45	0.27	0.27	0.183	7.8	*256*	10.9	8.4		
11/13/2009 9:00	0.27	0.27	0.183	7.8	*252*	10.9	8.4		
11/13/2009 9:15	0.271	0.271	0.185	7.9	*250*	10.9	8.4		
11/13/2009 9:30	0.271	0.271	0.185	8	*250*	10.9	8.4		
11/13/2009 9:45	0.271	0.271	0.185	8.1	*276*	10.9	8.4		
11/13/2009 10:00	0.27	0.27	0.183	8.2	*264*	10.8	8.4		
11/13/2009 10:15	0.27	0.27	0.183	8.3	*272*	10.8	8.5		
11/13/2009 10:30	0.269	0.269	0.181	8.5	*274*	10.8	8.5		
11/13/2009 10:45	0.273	0.273	0.190	8.6	*288*	10.8	8.5		
11/13/2009 11:00	0.27	0.27	0.183	8.8	*268*	10.7	8.4		
11/13/2009 11:15	0.269	0.269	0.181	9	*282*	10.7	8.5		
11/13/2009 11:30	0.27	0.27	0.183	9.2	*266*	10.6	8.5		
11/13/2009 11:45	0.27	0.27	0.183	9.4	*286*	10.5	8.5		
11/13/2009 12:00	0.27	0.27	0.183	9.6	*280*	10.5	8.5		
11/13/2009 12:15	0.269	0.269	0.181	9.7	*262*	10.4	8.5		
11/13/2009 12:30	0.272	0.272	0.187	9.9	*252*	10.4	8.5		
11/13/2009 12:45	0.269	0.269	0.181	10.1	*248*	10.3	8.5		12:49
11/13/2009 13:00	0.271	0.271	0.185	10.3	*256*	10.3	8.5		
11/13/2009 13:15	0.27	0.27	0.183	10.5	*278*	10.3	8.5		
11/13/2009 13:30	0.272	0.272	0.187	10.7	*258*	10.2	8.5		
11/13/2009 13:45	0.267	0.267	0.177	10.8	*258*	10.1	8.5		
11/13/2009 14:00	0.267	0.267	0.177	10.9	*262*	10.1	8.5		
11/13/2009 14:15	0.27	0.27	0.183	11	*258*	10.1	8.5		
11/13/2009 14:30	0.267	0.267	0.177	11.1	*224*	10	8.5		
11/13/2009 14:45	0.268	0.268	0.179	11.2	*246*	10	8.5		
11/13/2009 15:00	0.266	0.266	0.175	11.3	*256*	10	8.5		
11/13/2009 15:15	0.268	0.268	0.179	11.4	*250*	9.9	8.5		
11/13/2009 15:30	0.267	0.267	0.177	11.5	*282*	9.9	8.5		
11/13/2009 15:45	0.266	0.266	0.175	11.5	*266*	9.9	8.5		
11/13/2009 16:00	0.266	0.266	0.175	11.6	*254*	9.9	8.5		
11/13/2009 16:15	0.268	0.268	0.179	11.5	*230*	9.8	8.5		
11/13/2009 16:30	0.266	0.266	0.175	11.5	*252*	9.9	8.5		
11/13/2009 16:45	0.267	0.267	0.177	11.4	*252*	9.8	8.5		
11/13/2009 17:00	0.265	0.265	0.173	11.4	*232*	9.9	8.5		
11/13/2009 17:15	0.266	0.266	0.175	11.4	*250*	9.8	8.5		
11/13/2009 17:30	0.267	0.267	0.177	11.3	*250*	9.9	8.5		
11/13/2009 17:45	0.265	0.265	0.173	11.2	*198*	9.9	8.5		
11/13/2009 18:00	0.266	0.266	0.175	11.2	*244*	9.9	8.5		
11/13/2009 18:15	0.266	0.266	0.175	11.1	*226*	9.9	8.5		
11/13/2009 18:30	0.267	0.267	0.177	11	*248*	9.9	8.5		
11/13/2009 18:45	0.265	0.265	0.173	11	*230*	9.9	8.4		
11/13/2009 19:00	0.266	0.266	0.175	10.9	*232*	10	8.4		
11/13/2009 19:15	0.265	0.265	0.173	10.8	*236*	10	8.4		
11/13/2009 19:30	0.267	0.267	0.177	10.8	*224*	10	8.4		
11/13/2009 19:45	0.264	0.264	0.171	10.7	*234*	10	8.4		
11/13/2009 20:00	0.266	0.266	0.175	10.6	*226*	10	8.4		
11/13/2009 20:15	0.264	0.264	0.171	10.6	*244*	10	8.4		
11/13/2009 20:30	0.265	0.265	0.173	10.5	*204*	10.1	8.4		
11/13/2009 20:45	0.265	0.265	0.173	10.4	*248*	10.1	8.4		
11/13/2009 21:00	0.263	0.263	0.169	10.4	*232*	10.1	8.4		
11/13/2009 21:15	0.264	0.264	0.171	10.3	*234*	10.1	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/13/2009 21:30	0.264	0.264	0.171	10.2	*236*	10.1	8.4		
11/13/2009 21:45	0.265	0.265	0.173	10.2	*236*	10	8.4		
11/13/2009 22:00	0.264	0.264	0.171	10.1	*206*	10.1	8.4		
11/13/2009 22:15	0.264	0.264	0.171	10.1	*220*	10.2	8.4		
11/13/2009 22:30	0.264	0.264	0.171	10	*210*	10.2	8.4		
11/13/2009 22:45	0.264	0.264	0.171	10	*252*	10.2	8.4		
11/13/2009 23:00	0.263	0.263	0.169	9.9	*228*	10.2	8.4		
11/13/2009 23:15	0.264	0.264	0.171	9.9	*254*	10.2	8.4		
11/13/2009 23:30	0.263	0.263	0.169	9.8	*260*	10.2	8.4		
11/13/2009 23:45	0.263	0.263	0.169	9.8	*214*	10.2	8.4		
11/14/2009 0:00	0.264	0.264	0.171	9.7	*252*	10.3	8.4		
11/14/2009 0:15	0.263	0.263	0.169	9.7	*262*	10.3	8.4		
11/14/2009 0:30	0.263	0.263	0.169	9.6	*286*	10.3	8.4		
11/14/2009 0:45	0.263	0.263	0.169	9.6	*286*	10.3	8.4		
11/14/2009 1:00	0.263	0.263	0.169	9.5	*282*	10.3	8.4		
11/14/2009 1:15	0.263	0.263	0.169	9.5	*282*	10.3	8.4		
11/14/2009 1:30	0.263	0.263	0.169	9.4	*278*	10.3	8.4		
11/14/2009 1:45	0.263	0.263	0.169	9.4	*274*	10.4	8.4		
11/14/2009 2:00	0.262	0.262	0.167	9.3	*252*	10.3	8.4		
11/14/2009 2:15	0.259	0.259	0.161	9.3	*258*	10.4	8.4		
11/14/2009 2:30	0.262	0.262	0.167	9.3	*252*	10.4	8.4		
11/14/2009 2:45	0.263	0.263	0.169	9.2	*272*	10.4	8.4		
11/14/2009 3:00	0.265	0.265	0.173	9.2	*272*	10.4	8.4		
11/14/2009 3:15	0.262	0.262	0.167	9.1	*280*	10.4	8.4		
11/14/2009 3:30	0.264	0.264	0.171	9.1	*286*	10.4	8.4		
11/14/2009 3:45	0.262	0.262	0.167	9.1	*280*	10.4	8.4		
11/14/2009 4:00	0.263	0.263	0.169	9	*270*	10.5	8.4		
11/14/2009 4:15	0.262	0.262	0.167	9	*260*	10.4	8.4		
11/14/2009 4:30	0.263	0.263	0.169	8.9	*240*	10.5	8.4		
11/14/2009 4:45	0.261	0.261	0.165	8.9	*206*	10.5	8.4		
11/14/2009 5:00	0.263	0.263	0.169	8.8	*252*	10.5	8.4		
11/14/2009 5:15	0.263	0.263	0.169	8.8	*234*	10.5	8.4		
11/14/2009 5:30	0.262	0.262	0.167	8.8	*224*	10.5	8.4		
11/14/2009 5:45	0.26	0.26	0.163	8.8	*242*	10.5	8.4		
11/14/2009 6:00	0.262	0.262	0.167	8.7	*240*	10.5	8.4		
11/14/2009 6:15	0.259	0.259	0.161	8.7	*238*	10.5	8.4		
11/14/2009 6:30	0.261	0.261	0.165	8.7	*236*	10.6	8.4		
11/14/2009 6:45	0.261	0.261	0.165	8.7	*224*	10.5	8.4		
11/14/2009 7:00	0.261	0.261	0.165	8.7	*220*	10.6	8.4		
11/14/2009 7:15	0.259	0.259	0.161	8.7	*220*	10.5	8.4		
11/14/2009 7:30	0.261	0.261	0.165	8.6	*216*	10.6	8.4		
11/14/2009 7:45	0.261	0.261	0.165	8.6	*220*	10.6	8.4		
11/14/2009 8:00	0.259	0.259	0.161	8.6	*190*	10.6	8.4		
11/14/2009 8:15	0.261	0.261	0.165	8.7	*220*	10.6	8.4		
11/14/2009 8:30	0.261	0.261	0.165	8.7	*228*	10.6	8.4		
11/14/2009 8:45	0.26	0.26	0.163	8.7	*212*	10.6	8.4		
11/14/2009 9:00	0.259	0.259	0.161	8.7	*220*	10.7	8.4		
11/14/2009 9:15	0.259	0.259	0.161	8.8	*216*	10.6	8.4		
11/14/2009 9:30	0.259	0.259	0.161	8.9	*196*	10.6	8.4		
11/14/2009 9:45	0.259	0.259	0.161	9	*192*	10.6	8.5		
11/14/2009 10:00	0.261	0.261	0.165	9	*182*	10.6	8.5		
11/14/2009 10:15	0.26	0.26	0.163	9.1	*208*	10.6	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/14/2009 10:30	0.26	0.26	0.163	9.2	*186*	10.6	8.5		
11/14/2009 10:45	0.261	0.261	0.165	9.3	*198*	10.5	8.5		
11/14/2009 11:00	0.261	0.261	0.165	9.4	*174*	10.5	8.5		
11/14/2009 11:15	0.261	0.261	0.165	9.5	*144*	10.4	8.5		
11/14/2009 11:30	0.261	0.261	0.165	9.7	*222*	10.4	8.5		
11/14/2009 11:45	0.259	0.259	0.161	9.9	*188*	10.4	8.5		
11/14/2009 12:00	0.259	0.259	0.161	10.1	*228*	10.3	8.5		
11/14/2009 12:15	0.26	0.26	0.163	10.3	*228*	10.2	8.5		
11/14/2009 12:30	0.261	0.261	0.165	10.6	*226*	10.2	8.5		
11/14/2009 12:45	0.261	0.261	0.165	10.8	*224*	10.1	8.5		12:49
11/14/2009 13:00	0.26	0.26	0.163	11.1	*238*	10.1	8.5		
11/14/2009 13:15	0.26	0.26	0.163	11.2	*198*	10	8.5		
11/14/2009 13:30	0.26	0.26	0.163	11.4	*234*	10	8.5		
11/14/2009 13:45	0.258	0.258	0.159	11.6	*228*	10	8.5		
11/14/2009 14:00	0.26	0.26	0.163	11.7	*212*	9.9	8.5		
11/14/2009 14:15	0.257	0.257	0.157	11.8	*208*	9.8	8.5		
11/14/2009 14:30	0.26	0.26	0.163	11.9	*200*	9.8	8.5		
11/14/2009 14:45	0.259	0.259	0.161	11.9	*200*	9.8	8.5		
11/14/2009 15:00	0.261	0.261	0.165	11.9	*194*	9.8	8.5		
11/14/2009 15:15	0.259	0.259	0.161	12	*206*	9.7	8.5		
11/14/2009 15:30	0.26	0.26	0.163	12	*180*	9.7	8.5		
11/14/2009 15:45	0.258	0.258	0.159	12	*180*	9.7	8.5		
11/14/2009 16:00	0.259	0.259	0.161	12	*186*	9.7	8.5		
11/14/2009 16:15	0.259	0.259	0.161	12	*186*	9.7	8.5		
11/14/2009 16:30	0.259	0.259	0.161	12	*138*	9.7	8.5		
11/14/2009 16:45	0.259	0.259	0.161	12	*208*	9.7	8.5		
11/14/2009 17:00	0.259	0.259	0.161	11.9	*222*	9.7	8.5		
11/14/2009 17:15	0.257	0.257	0.157	11.9	*242*	9.7	8.5		
11/14/2009 17:30	0.259	0.259	0.161	11.8	*248*	9.8	8.5		
11/14/2009 17:45	0.259	0.259	0.161	11.7	*234*	9.7	8.5		
11/14/2009 18:00	0.258	0.258	0.159	11.6	*216*	9.8	8.5		
11/14/2009 18:15	0.259	0.259	0.161	11.6	*216*	9.8	8.5		
11/14/2009 18:30	0.259	0.259	0.161	11.5	*210*	9.8	8.5		
11/14/2009 18:45	0.259	0.259	0.161	11.4	*168*	9.8	8.5		
11/14/2009 19:00	0.257	0.257	0.157	11.3	*172*	9.8	8.5		
11/14/2009 19:15	0.26	0.26	0.163	11.2	*160*	9.9	8.5		
11/14/2009 19:30	0.258	0.258	0.159	11.2	*164*	9.9	8.5		
11/14/2009 19:45	0.259	0.259	0.161	11.1	*134*	9.9	8.5		
11/14/2009 20:00	0.257	0.257	0.157	11	*188*	9.9	8.5		
11/14/2009 20:15	0.257	0.257	0.157	10.9	*162*	9.9	8.5		
11/14/2009 20:30	0.254	0.254	0.152	10.9	*154*	9.9	8.4		
11/14/2009 20:45	0.258	0.258	0.159	10.8	*150*	10	8.4		
11/14/2009 21:00	0.256	0.256	0.156	10.7	*144*	10	8.4		
11/14/2009 21:15	0.256	0.256	0.156	10.7	*202*	10	8.4		
11/14/2009 21:30	0.254	0.254	0.152	10.6	*216*	10	8.4		
11/14/2009 21:45	0.259	0.259	0.161	10.6	*200*	10	8.4		
11/14/2009 22:00	0.255	0.255	0.154	10.5	*216*	10.1	8.4		
11/14/2009 22:15	0.257	0.257	0.157	10.4	*214*	10	8.4		
11/14/2009 22:30	0.257	0.257	0.157	10.3	*194*	10.1	8.4		
11/14/2009 22:45	0.256	0.256	0.156	10.3	*204*	10.1	8.4		
11/14/2009 23:00	0.256	0.256	0.156	10.2	*202*	10.1	8.4		
11/14/2009 23:15	0.256	0.256	0.156	10.2	*204*	10.1	8.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/14/2009 23:30	0.256	0.256	0.156	10.1	*204*	10.2	8.4		
11/14/2009 23:45	0.255	0.255	0.154	10.1	*220*	10.1	8.4		
11/15/2009 0:00	0.255	0.255	0.154	10	*210*	10.2	8.4		
11/15/2009 0:15	0.255	0.255	0.154	10	*210*	10.2	8.4		
11/15/2009 0:30	0.255	0.255	0.154	10	*230*	10.2	8.4		
11/15/2009 0:45	0.255	0.255	0.154	9.9	*248*	10.2	8.4		
11/15/2009 1:00	0.253	0.253	0.150	9.9	*224*	10.2	8.4		
11/15/2009 1:15	0.257	0.257	0.157	9.8	*224*	10.2	8.4		
11/15/2009 1:30	0.253	0.253	0.150	9.8	*240*	10.2	8.4		
11/15/2009 1:45	0.255	0.255	0.154	9.7	*218*	10.2	8.4		
11/15/2009 2:00	0.256	0.256	0.156	9.7	*216*	10.2	8.4		
11/15/2009 2:15	0.252	0.252	0.149	9.6	*194*	10.3	8.4		
11/15/2009 2:30	0.253	0.253	0.150	9.6	*198*	10.3	8.4		
11/15/2009 2:45	0.253	0.253	0.150	9.5	*198*	10.3	8.4		
11/15/2009 3:00	0.253	0.253	0.150	9.4	*196*	10.3	8.4		
11/15/2009 3:15	0.253	0.253	0.150	9.4	*216*	10.3	8.4		
11/15/2009 3:30	0.253	0.253	0.150	9.3	*212*	10.4	8.4		
11/15/2009 3:45	0.253	0.253	0.150	9.3	*230*	10.3	8.4		
11/15/2009 4:00	0.251	0.251	0.147	9.3	*230*	10.4	8.4		
11/15/2009 4:15	0.254	0.254	0.152	9.2	*168*	10.4	8.4		
11/15/2009 4:30	0.252	0.252	0.149	9.2	*170*	10.4	8.4		
11/15/2009 4:45	0.251	0.251	0.147	9.1	*222*	10.4	8.4		
11/15/2009 5:00	0.253	0.253	0.150	9.1	*208*	10.4	8.4		
11/15/2009 5:15	0.253	0.253	0.150	9.1	*206*	10.4	8.4		
11/15/2009 5:30	0.253	0.253	0.150	9.1	*202*	10.4	8.4		
11/15/2009 5:45	0.251	0.251	0.147	9	*204*	10.4	8.4		
11/15/2009 6:00	0.249	0.249	0.143	9	*198*	10.4	8.4		
11/15/2009 6:15	0.25	0.25	0.145	9	*196*	10.4	8.4		
11/15/2009 6:30	0.252	0.252	0.149	9	*180*	10.4	8.4		
11/15/2009 6:45	0.253	0.253	0.150	9	*188*	10.5	8.4		
11/15/2009 7:00	0.248	0.248	0.142	9	*190*	10.4	8.4		
11/15/2009 7:15	0.25	0.25	0.145	8.9	*194*	10.4	8.4		
11/15/2009 7:30	0.251	0.251	0.147	8.9	*194*	10.5	8.4		
11/15/2009 7:45	0.25	0.25	0.145	8.9	*194*	10.5	8.4		
11/15/2009 8:00	0.25	0.25	0.145	8.9	*192*	10.5	8.4		
11/15/2009 8:15	0.251	0.251	0.147	8.9	*186*	10.5	8.4		
11/15/2009 8:30	0.249	0.249	0.143	8.9	*188*	10.6	8.4		
11/15/2009 8:45	0.251	0.251	0.147	9	*190*	10.5	8.5		
11/15/2009 9:00	0.248	0.248	0.142	9	*184*	10.5	8.5		
11/15/2009 9:15	0.248	0.248	0.142	9.1	*188*	10.6	8.5		
11/15/2009 9:30	0.248	0.248	0.142	9.1	*184*	10.5	8.5		
11/15/2009 9:45	0.25	0.25	0.145	9.2	*192*	10.5	8.5		
11/15/2009 10:00	0.249	0.249	0.143	9.3	*188*	10.5	8.5		
11/15/2009 10:15	0.248	0.248	0.142	9.4	*188*	10.5	8.5		
11/15/2009 10:30	0.247	0.247	0.140	9.4	*186*	10.5	8.5		
11/15/2009 10:45	0.25	0.25	0.145	9.5	*190*	10.5	8.5		
11/15/2009 11:00	0.248	0.248	0.142	9.6	*192*	10.4	8.5		
11/15/2009 11:15	0.248	0.248	0.142	9.7	*150*	10.4	8.5		
11/15/2009 11:30	0.248	0.248	0.142	9.9	*158*	10.4	8.5		
11/15/2009 11:45	0.247	0.247	0.140	10	*156*	10.3	8.5		
11/15/2009 12:00	0.247	0.247	0.140	10.2	*156*	10.3	8.5		
11/15/2009 12:15	0.248	0.248	0.142	10.4	*156*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/15/2009 12:30	0.25	0.25	0.145	10.6	*152*	10.2	8.5		
11/15/2009 12:45	**0.25**	**0.25**	**0.145**		*326*			* (30)	
11/15/2009 13:00	**0.25**	**0.25**	**0.145**		*326*				
11/15/2009 13:15	**0.25**	**0.25**	**0.145**		*326*				
11/15/2009 13:30	**0.25**	**0.25**	**0.145**		*326*			* (31)	
11/15/2009 13:45	*0.2185*	**0.2345**	**0.121**	11.4	*322*	10.3	8.6	* (32)	
11/15/2009 14:00	*0.2188*	**0.2348**	**0.122**	11.4	*304*	10.3	8.6		13:57
11/15/2009 14:15	*0.219*	**0.235**	**0.122**	11.6	*320*	10.5	8.6		
11/15/2009 14:30	*0.219*	**0.235**	**0.122**	11.6	*304*	10.5	8.6		
11/15/2009 14:45	*0.219*	**0.235**	**0.122**	11.7	*318*	10.4	8.6		
11/15/2009 15:00	*0.221*	**0.237**	**0.125**	11.8	*318*	10.4	8.6		
11/15/2009 15:15	*0.219*	**0.235**	**0.122**	11.9	*268*	10.3	8.6		
11/15/2009 15:30	*0.218*	**0.234**	**0.120**	11.9	*284*	10.3	8.6		
11/15/2009 15:45	*0.218*	**0.234**	**0.120**	11.9	*252*	10.2	8.6		
11/15/2009 16:00	*0.217*	**0.233**	**0.119**	12	*250*	10.2	8.6		
11/15/2009 16:15	*0.22*	**0.236**	**0.123**	12	*206*	10.2	8.6		
11/15/2009 16:30	*0.216*	**0.232**	**0.118**	11.9	*230*	10.2	8.6		
11/15/2009 16:45	*0.218*	**0.234**	**0.120**	11.9	*214*	10.2	8.6		
11/15/2009 17:00	*0.219*	**0.235**	**0.122**	11.8	*226*	10.2	8.6		
11/15/2009 17:15	*0.217*	**0.233**	**0.119**	11.7	*242*	10.2	8.5		
11/15/2009 17:30	*0.217*	**0.233**	**0.119**	11.7	*202*	10.2	8.5		
11/15/2009 17:45	*0.219*	**0.235**	**0.122**	11.6	*246*	10.2	8.5		
11/15/2009 18:00	*0.217*	**0.233**	**0.119**	11.5	*244*	10.2	8.5		
11/15/2009 18:15	*0.217*	**0.233**	**0.119**	11.4	*234*	10.2	8.5		
11/15/2009 18:30	*0.219*	**0.235**	**0.122**	11.3	*264*	10.3	8.5	* (33)	
11/15/2009 18:45	0.235	0.235	0.122	11.2	*238*	10.3	8.5		
11/15/2009 19:00	0.236	0.236	0.123	11.1	*252*	10.3	8.5		
11/15/2009 19:15	0.232	0.232	0.118	11	*252*	10.3	8.5		
11/15/2009 19:30	0.236	0.236	0.123	10.9	*256*	10.3	8.5		
11/15/2009 19:45	0.234	0.234	0.120	10.8	*236*	10.3	8.5		
11/15/2009 20:00	0.234	0.234	0.120	10.7	*242*	10.4	8.5		
11/15/2009 20:15	0.236	0.236	0.123	10.6	*234*	10.4	8.5		
11/15/2009 20:30	0.234	0.234	0.120	10.6	*272*	10.4	8.5		
11/15/2009 20:45	0.234	0.234	0.120	10.5	*198*	10.5	8.5		
11/15/2009 21:00	0.235	0.235	0.122	10.4	*248*	10.5	8.5		
11/15/2009 21:15	0.234	0.234	0.120	10.3	*196*	10.5	8.5		
11/15/2009 21:30	0.236	0.236	0.123	10.2	*178*	10.5	8.5		
11/15/2009 21:45	0.232	0.232	0.118	10.1	*254*	10.5	8.5		
11/15/2009 22:00	0.235	0.235	0.122	10.1	*242*	10.5	8.5		
11/15/2009 22:15	0.235	0.235	0.122	10	*256*	10.6	8.5		
11/15/2009 22:30	0.232	0.232	0.118	9.9	*218*	10.6	8.5		
11/15/2009 22:45	0.233	0.233	0.119	9.8	*268*	10.6	8.5		
11/15/2009 23:00	0.233	0.233	0.119	9.8	*256*	10.6	8.5		
11/15/2009 23:15	0.226	0.226	0.110	9.7	*250*	10.7	8.5		
11/15/2009 23:30	0.234	0.234	0.120	9.6	*222*	10.6	8.5		
11/15/2009 23:45	0.233	0.233	0.119	9.6	*258*	10.7	8.5		
11/16/2009 0:00	0.234	0.234	0.120	9.5	*268*	10.7	8.5		
11/16/2009 0:15	0.233	0.233	0.119	9.4	*230*	10.7	8.5		
11/16/2009 0:30	0.231	0.231	0.116	9.3	*216*	10.7	8.5		
11/16/2009 0:45	0.235	0.235	0.122	9.3	*272*	10.8	8.5		
11/16/2009 1:00	0.234	0.234	0.120	9.2	*256*	10.8	8.5		
11/16/2009 1:15	0.232	0.232	0.118	9.1	*250*	10.8	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/16/2009 1:30	0.234	0.234	0.120	9.1	*200*	10.8	8.5		
11/16/2009 1:45	0.233	0.233	0.119	9	*250*	10.8	8.5		
11/16/2009 2:00	0.233	0.233	0.119	8.9	*236*	10.8	8.5		
11/16/2009 2:15	0.229	0.229	0.114	8.9	*212*	10.8	8.5		
11/16/2009 2:30	0.234	0.234	0.120	8.8	*154*	10.9	8.5		
11/16/2009 2:45	0.232	0.232	0.118	8.7	*156*	10.9	8.5		
11/16/2009 3:00	0.232	0.232	0.118	8.7	*150*	10.9	8.5		
11/16/2009 3:15	0.234	0.234	0.120	8.6	*154*	10.9	8.5		
11/16/2009 3:30	0.234	0.234	0.120	8.6	*218*	10.9	8.5		
11/16/2009 3:45	0.234	0.234	0.120	8.5	*220*	10.9	8.5		
11/16/2009 4:00	0.233	0.233	0.119	8.4	*294*	11	8.5		
11/16/2009 4:15	0.232	0.232	0.118	8.4	*234*	11	8.5		
11/16/2009 4:30	0.232	0.232	0.118	8.3	*262*	11	8.5		
11/16/2009 4:45	0.232	0.232	0.118	8.3	*236*	11	8.5		
11/16/2009 5:00	0.233	0.233	0.119	8.2	*216*	11	8.5		
11/16/2009 5:15	0.231	0.231	0.116	8.1	*202*	11	8.5		
11/16/2009 5:30	0.23	0.23	0.115	8.1	*210*	11.1	8.5		
11/16/2009 5:45	0.233	0.233	0.119	8	*300*	11.1	8.5		
11/16/2009 6:00	0.23	0.23	0.115	8	*242*	11.1	8.5		
11/16/2009 6:15	0.232	0.232	0.118	7.9	*234*	11.1	8.5		
11/16/2009 6:30	0.23	0.23	0.115	7.8	*168*	11.1	8.5		
11/16/2009 6:45	0.232	0.232	0.118	7.8	*142*	11.1	8.5		
11/16/2009 7:00	0.232	0.232	0.118	7.7	*200*	11.1	8.5		
11/16/2009 7:15	0.232	0.232	0.118	7.7	*216*	11.1	8.5		
11/16/2009 7:30	0.233	0.233	0.119	7.6	*182*	11.2	8.5		
11/16/2009 7:45	0.234	0.234	0.120	7.6	*206*	11.2	8.5		
11/16/2009 8:00	0.231	0.231	0.116	7.6	*220*	11.2	8.5		
11/16/2009 8:15	0.232	0.232	0.118	7.5	*196*	11.3	8.5		
11/16/2009 8:30	0.233	0.233	0.119	7.6	*258*	11.3	8.5		
11/16/2009 8:45	0.231	0.231	0.116	7.6	*214*	11.3	8.5		
11/16/2009 9:00	0.23	0.23	0.115	7.7	*226*	11.3	8.5		
11/16/2009 9:15	0.232	0.232	0.118	7.7	*236*	11.3	8.5		
11/16/2009 9:30	0.232	0.232	0.118	7.8	*218*	11.3	8.5		
11/16/2009 9:45	0.231	0.231	0.116	7.9	*208*	11.3	8.5		
11/16/2009 10:00	0.229	0.229	0.114	8	*158*	11.3	8.5		
11/16/2009 10:15	0.232	0.232	0.118	8.1	*100*	11.3	8.5		
11/16/2009 10:30	0.229	0.229	0.114	8.2	*270*	11.2	8.5		
11/16/2009 10:45	0.232	0.232	0.118	8.3	*236*	11.2	8.5		
11/16/2009 11:00	0.23	0.23	0.115	8.5	*220*	11.1	8.5		
11/16/2009 11:15	0.232	0.232	0.118	8.7	*166*	11.1	8.5		
11/16/2009 11:30	0.231	0.231	0.116	8.9	*180*	11	8.5		
11/16/2009 11:45	0.23	0.23	0.115	9.1	*164*	11	8.6		
11/16/2009 12:00	0.232	0.232	0.118	9.3	*146*	10.9	8.6		
11/16/2009 12:15	0.232	0.232	0.118	9.5	*200*	10.9	8.6		
11/16/2009 12:30	0.233	0.233	0.119	9.8	*172*	10.8	8.6		
11/16/2009 12:45	0.232	0.232	0.118	10	*196*	10.7	8.6		
11/16/2009 13:00	0.229	0.229	0.114	10.2	*110*	10.7	8.6		
11/16/2009 13:15	0.23	0.23	0.115	10.3	*170*	10.7	8.6		
11/16/2009 13:30	0.227	0.227	0.111	10.5	*144*	10.6	8.6		
11/16/2009 13:45	0.229	0.229	0.114	10.6	*100*	10.6	8.6		
11/16/2009 14:00	0.227	0.227	0.111	10.7	*150*	10.6	8.6		13:57
11/16/2009 14:15	0.23	0.23	0.115	10.8	*98*	10.5	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/16/2009 14:30	0.23	0.23	0.115	10.9	*122*	10.5	8.6		
11/16/2009 14:45	0.228	0.228	0.112	11	*78*	10.4	8.6		
11/16/2009 15:00	0.228	0.228	0.112	11	*168*	10.4	8.6		
11/16/2009 15:15	0.229	0.229	0.114	11.1	*138*	10.4	8.6		
11/16/2009 15:30	0.229	0.229	0.114	11.1	*124*	10.4	8.6		
11/16/2009 15:45	0.228	0.228	0.112	11.1	*226*	10.3	8.6		
11/16/2009 16:00	0.231	0.231	0.116	11.1	*224*	10.3	8.6		
11/16/2009 16:15	0.228	0.228	0.112	11.1	*190*	10.4	8.6		
11/16/2009 16:30	0.229	0.229	0.114	11.1	*158*	10.4	8.6		
11/16/2009 16:45	0.23	0.23	0.115	11	*172*	10.4	8.6		
11/16/2009 17:00	0.229	0.229	0.114	11	*150*	10.4	8.6		
11/16/2009 17:15	0.23	0.23	0.115	10.9	*152*	10.4	8.5		
11/16/2009 17:30	0.23	0.23	0.115	10.8	*182*	10.4	8.5		
11/16/2009 17:45	0.229	0.229	0.114	10.7	*176*	10.4	8.5		
11/16/2009 18:00	0.231	0.231	0.116	10.7	*170*	10.4	8.5		
11/16/2009 18:15	0.228	0.228	0.112	10.6	*112*	10.4	8.5		
11/16/2009 18:30	0.23	0.23	0.115	10.5	*66*	10.4	8.5		
11/16/2009 18:45	0.228	0.228	0.112	10.4	*130*	10.4	8.5		
11/16/2009 19:00	0.23	0.23	0.115	10.3	*102*	10.5	8.5		
11/16/2009 19:15	0.228	0.228	0.112	10.2	*194*	10.5	8.5		
11/16/2009 19:30	0.227	0.227	0.111	10.2	*204*	10.5	8.5		
11/16/2009 19:45	0.229	0.229	0.114	10.1	*128*	10.5	8.5		
11/16/2009 20:00	0.228	0.228	0.112	10	*126*	10.5	8.5		
11/16/2009 20:15	0.229	0.229	0.114	9.9	*98*	10.6	8.5		
11/16/2009 20:30	0.228	0.228	0.112	9.9	*144*	10.6	8.5		
11/16/2009 20:45	0.228	0.228	0.112	9.8	*148*	10.6	8.5		
11/16/2009 21:00	0.229	0.229	0.114	9.8	*72*	10.6	8.5		
11/16/2009 21:15	0.229	0.229	0.114	9.7	*186*	10.7	8.5		
11/16/2009 21:30	0.229	0.229	0.114	9.7	*100*	10.6	8.5		
11/16/2009 21:45	0.228	0.228	0.112	9.6	*72*	10.7	8.5		
11/16/2009 22:00	0.228	0.228	0.112	9.5	*64*	10.7	8.5		
11/16/2009 22:15	0.227	0.227	0.111	9.5	*104*	10.7	8.5		
11/16/2009 22:30	0.227	0.227	0.111	9.4	*110*	10.7	8.5		
11/16/2009 22:45	0.227	0.227	0.111	9.4	*70*	10.7	8.5		
11/16/2009 23:00	0.229	0.229	0.114	9.3	*70*	10.7	8.5		
11/16/2009 23:15	0.227	0.227	0.111	9.3	*152*	10.7	8.5		
11/16/2009 23:30	0.228	0.228	0.112	9.3	*104*	10.7	8.5		
11/16/2009 23:45	0.225	0.225	0.109	9.3	*72*	10.7	8.5		
11/17/2009 0:00	0.227	0.227	0.111	9.3	*128*	10.7	8.5		
11/17/2009 0:15	0.226	0.226	0.110	9.2	*88*	10.7	8.5		
11/17/2009 0:30	0.227	0.227	0.111	9.2	*82*	10.7	8.5		
11/17/2009 0:45	0.227	0.227	0.111	9.2	*110*	10.7	8.5		
11/17/2009 1:00	0.227	0.227	0.111	9.2	*90*	10.7	8.5		
11/17/2009 1:15	0.228	0.228	0.112	9.2	*116*	10.7	8.5		
11/17/2009 1:30	0.229	0.229	0.114	9.2	*84*	10.7	8.5		
11/17/2009 1:45	0.228	0.228	0.112	9.2	*98*	10.7	8.5		
11/17/2009 2:00	0.228	0.228	0.112	9.2	*64*	10.7	8.5		
11/17/2009 2:15	0.229	0.229	0.114	9.2	*112*	10.7	8.5		
11/17/2009 2:30	0.228	0.228	0.112	9.2	*92*	10.7	8.5		
11/17/2009 2:45	0.229	0.229	0.114	9.2	*60*	10.7	8.5		
11/17/2009 3:00	0.229	0.229	0.114	9.1	*60*	10.7	8.5		
11/17/2009 3:15	0.228	0.228	0.112	9.1	*116*	10.7	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/17/2009 3:30	0.228	0.228	0.112	9.1	*62*	10.7	8.5		
11/17/2009 3:45	0.227	0.227	0.111	9.1	*80*	10.7	8.5		
11/17/2009 4:00	0.228	0.228	0.112	9.1	*60*	10.7	8.5		
11/17/2009 4:15	0.229	0.229	0.114	9.1	*54*	10.7	8.5		
11/17/2009 4:30	0.228	0.228	0.112	9.1	*72*	10.7	8.5		
11/17/2009 4:45	0.227	0.227	0.111	9.1	*56*	10.7	8.5		
11/17/2009 5:00	0.229	0.229	0.114	9.1	*70*	10.7	8.5		
11/17/2009 5:15	0.23	0.23	0.115	9.1	*66*	10.7	8.5		
11/17/2009 5:30	0.228	0.228	0.112	9.1	*96*	10.7	8.5		
11/17/2009 5:45	0.231	0.231	0.116	9.1	*108*	10.7	8.5		
11/17/2009 6:00	0.23	0.23	0.115	9.1	*76*	10.7	8.5		
11/17/2009 6:15	0.228	0.228	0.112	9.1	*124*	10.7	8.5		
11/17/2009 6:30	0.231	0.231	0.116	9	*106*	10.7	8.5		
11/17/2009 6:45	0.23	0.23	0.115	9	*126*	10.7	8.5		
11/17/2009 7:00	0.231	0.231	0.116	9	*84*	10.7	8.5		
11/17/2009 7:15	0.23	0.23	0.115	9.1	*82*	10.7	8.5		
11/17/2009 7:30	0.231	0.231	0.116	9.2	*104*	10.7	8.5		
11/17/2009 7:45	0.23	0.23	0.115	9.2	*128*	10.7	8.5		
11/17/2009 8:00	0.229	0.229	0.114	9.3	*82*	10.7	8.5		
11/17/2009 8:15	0.227	0.227	0.111	9.4	*126*	10.7	8.5		
11/17/2009 8:30	0.228	0.228	0.112	9.5	*70*	10.7	8.5		
11/17/2009 8:45	0.228	0.228	0.112	9.6	*62*	10.7	8.6		
11/17/2009 9:00	0.229	0.229	0.114	9.7	*156*	10.7	8.6		
11/17/2009 9:15	0.229	0.229	0.114	9.9	*102*	10.7	8.6		
11/17/2009 9:30	0.228	0.228	0.112	10	*96*	10.7	8.6		
11/17/2009 9:45	0.229	0.229	0.114	10.2	*158*	10.7	8.6		
11/17/2009 10:00	0.23	0.23	0.115	10.3	*156*	10.6	8.6		
11/17/2009 10:15	0.228	0.228	0.112	10.4	*174*	10.6	8.6		
11/17/2009 10:30	0.227	0.227	0.111	10.5	*246*	10.5	8.6		
11/17/2009 10:45	0.228	0.228	0.112	10.7	*186*	10.5	8.6		
11/17/2009 11:00	0.229	0.229	0.114	10.7	*138*	10.5	8.6		
11/17/2009 11:15	0.229	0.229	0.114	10.8	*126*	10.4	8.6		
11/17/2009 11:30	0.229	0.229	0.114	10.9	*124*	10.4	8.6		
11/17/2009 11:45	0.23	0.23	0.115	11	*120*	10.4	8.6		
11/17/2009 12:00	0.229	0.229	0.114	11	*118*	10.4	8.6		
11/17/2009 12:15	0.23	0.23	0.115	11.1	*136*	10.4	8.6		
11/17/2009 12:30	0.231	0.231	0.116	11.2	*110*	10.3	8.6		
11/17/2009 12:45	0.23	0.23	0.115	11.2	*170*	10.3	8.6		
11/17/2009 13:00	0.232	0.232	0.118	11.2	*154*	10.3	8.6		
11/17/2009 13:15	0.229	0.229	0.114	11.2	*126*	10.3	8.6		
11/17/2009 13:30	0.23	0.23	0.115	11.3	*152*	10.2	8.6		
11/17/2009 13:45	0.231	0.231	0.116	11.3	*110*	10.3	8.6		
11/17/2009 14:00	0.231	0.231	0.116	11.3	*76*	10.2	8.6		13:57
11/17/2009 14:15	0.229	0.229	0.114	11.3	*146*	10.2	8.6		
11/17/2009 14:30	0.229	0.229	0.114	11.3	*122*	10.2	8.6		
11/17/2009 14:45	0.23	0.23	0.115	11.4	*120*	10.2	8.6		
11/17/2009 15:00	0.228	0.228	0.112	11.4	*106*	10.2	8.6		
11/17/2009 15:15	0.23	0.23	0.115	11.5	*102*	10.2	8.6		
11/17/2009 15:30	0.23	0.23	0.115	11.6	*118*	10.2	8.6		
11/17/2009 15:45	0.23	0.23	0.115	11.6	*138*	10.2	8.6		
11/17/2009 16:00	0.23	0.23	0.115	11.7	*58*	10.2	8.6		
11/17/2009 16:15	0.23	0.23	0.115	11.7	*80*	10.2	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/17/2009 16:30	0.231	0.231	0.116	11.7	*146*	10.1	8.6		
11/17/2009 16:45	0.231	0.231	0.116	11.7	*154*	10.1	8.6		
11/17/2009 17:00	0.229	0.229	0.114	11.7	*144*	10.1	8.6		
11/17/2009 17:15	0.231	0.231	0.116	11.7	*154*	10.1	8.6		
11/17/2009 17:30	0.23	0.23	0.115	11.7	*166*	10	8.6		
11/17/2009 17:45	0.229	0.229	0.114	11.7	*128*	10	8.6		
11/17/2009 18:00	0.23	0.23	0.115	11.7	*128*	10	8.6		
11/17/2009 18:15	0.229	0.229	0.114	11.7	*106*	10.1	8.6		
11/17/2009 18:30	0.229	0.229	0.114	11.7	*112*	10	8.6		
11/17/2009 18:45	0.231	0.231	0.116	11.7	*122*	10	8.6		
11/17/2009 19:00	0.23	0.23	0.115	11.7	*160*	10	8.6		
11/17/2009 19:15	0.229	0.229	0.114	11.7	*150*	10	8.6		
11/17/2009 19:30	0.227	0.227	0.111	11.7	*158*	10	8.6		
11/17/2009 19:45	0.229	0.229	0.114	11.7	*138*	10	8.6		
11/17/2009 20:00	0.23	0.23	0.115	11.7	*118*	10	8.6		
11/17/2009 20:15	0.23	0.23	0.115	11.6	*98*	10.1	8.5		
11/17/2009 20:30	0.229	0.229	0.114	11.6	*100*	10	8.5		
11/17/2009 20:45	0.227	0.227	0.111	11.6	*104*	10	8.5		
11/17/2009 21:00	0.23	0.23	0.115	11.6	*74*	10	8.5		
11/17/2009 21:15	0.229	0.229	0.114	11.6	*52*	10.1	8.5		
11/17/2009 21:30	0.23	0.23	0.115	11.6	*54*	10	8.5		
11/17/2009 21:45	0.23	0.23	0.115	11.6	*50*	10	8.5		
11/17/2009 22:00	0.229	0.229	0.114	11.6	*50*	10	8.5		
11/17/2009 22:15	0.228	0.228	0.112	11.6	*100*	10.1	8.5		
11/17/2009 22:30	0.23	0.23	0.115	11.6	*90*	10	8.5		
11/17/2009 22:45	0.229	0.229	0.114	11.6	*82*	10	8.5		
11/17/2009 23:00	0.232	0.232	0.118	11.6	*90*	10	8.5		
11/17/2009 23:15	0.232	0.232	0.118	11.6	*116*	10.1	8.5		
11/17/2009 23:30	0.23	0.23	0.115	11.6	*116*	10	8.5		
11/17/2009 23:45	0.231	0.231	0.116	11.6	*106*	10	8.5		
11/18/2009 0:00	0.231	0.231	0.116	11.6	*136*	10	8.5		
11/18/2009 0:15	0.23	0.23	0.115	11.6	*126*	10.1	8.5		
11/18/2009 0:30	0.231	0.231	0.116	11.6	*124*	10	8.5		
11/18/2009 0:45	0.231	0.231	0.116	11.6	*140*	10	8.5		
11/18/2009 1:00	0.233	0.233	0.119	11.6	*126*	10	8.5		
11/18/2009 1:15	0.236	0.236	0.123	11.6	*136*	10	8.5		
11/18/2009 1:30	0.236	0.236	0.123	11.6	*190*	10	8.5		
11/18/2009 1:45	0.236	0.236	0.123	11.6	*152*	10	8.5		
11/18/2009 2:00	0.235	0.235	0.122	11.5	*128*	10.1	8.5		
11/18/2009 2:15	0.234	0.234	0.120	11.5	*78*	10	8.6		
11/18/2009 2:30	0.235	0.235	0.122	11.5	*138*	10	8.6		
11/18/2009 2:45	0.235	0.235	0.122	11.5	*122*	10	8.6		
11/18/2009 3:00	0.235	0.235	0.122	11.5	*130*	10.1	8.6		
11/18/2009 3:15	0.235	0.235	0.122	11.4	*106*	10.1	8.6		
11/18/2009 3:30	0.235	0.235	0.122	11.4	*120*	10.1	8.6		
11/18/2009 3:45	0.235	0.235	0.122	11.4	*108*	10.1	8.6		
11/18/2009 4:00	0.235	0.235	0.122	11.3	*148*	10.1	8.6		
11/18/2009 4:15	0.234	0.234	0.120	11.3	*114*	10.1	8.6		
11/18/2009 4:30	0.234	0.234	0.120	11.3	*144*	10.1	8.6		
11/18/2009 4:45	0.231	0.231	0.116	11.3	*130*	10.1	8.6		
11/18/2009 5:00	0.232	0.232	0.118	11.2	*154*	10.1	8.6		
11/18/2009 5:15	0.234	0.234	0.120	11.2	*154*	10.1	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/18/2009 5:30	0.233	0.233	0.119	11.2	*138*	10.1	8.6		
11/18/2009 5:45	0.234	0.234	0.120	11.1	*138*	10.1	8.6		
11/18/2009 6:00	0.232	0.232	0.118	11.1	*154*	10.1	8.6		
11/18/2009 6:15	0.234	0.234	0.120	11.1	*140*	10.2	8.6		
11/18/2009 6:30	0.232	0.232	0.118	11	*142*	10.2	8.6		
11/18/2009 6:45	0.232	0.232	0.118	11	*130*	10.2	8.6		
11/18/2009 7:00	0.232	0.232	0.118	11	*148*	10.2	8.6		
11/18/2009 7:15	0.23	0.23	0.115	11	*188*	10.2	8.6		
11/18/2009 7:30	0.232	0.232	0.118	11	*180*	10.2	8.6		
11/18/2009 7:45	0.232	0.232	0.118	10.9	*162*	10.2	8.6		
11/18/2009 8:00	0.231	0.231	0.116	10.9	*212*	10.2	8.6		
11/18/2009 8:15	0.229	0.229	0.114	10.9	*182*	10.2	8.6		
11/18/2009 8:30	0.231	0.231	0.116	10.9	*172*	10.2	8.6		
11/18/2009 8:45	0.231	0.231	0.116	10.9	*74*	10.2	8.6		
11/18/2009 9:00	0.23	0.23	0.115	10.9	*66*	10.3	8.6		
11/18/2009 9:15	0.229	0.229	0.114	11	*70*	10.3	8.6		
11/18/2009 9:30	0.231	0.231	0.116	11	*74*	10.3	8.6		
11/18/2009 9:45	0.231	0.231	0.116	11	*144*	10.3	8.6		
11/18/2009 10:00	0.23	0.23	0.115	11	*114*	10.3	8.6		
11/18/2009 10:15	0.23	0.23	0.115	11	*94*	10.3	8.6		
11/18/2009 10:30	0.231	0.231	0.116	11	*118*	10.3	8.6		
11/18/2009 10:45	0.231	0.231	0.116	11	*100*	10.3	8.6		
11/18/2009 11:00	0.23	0.23	0.115	11	*162*	10.3	8.6		
11/18/2009 11:15	0.229	0.229	0.114	11	*124*	10.3	8.6		
11/18/2009 11:30	0.228	0.228	0.112	11	*122*	10.3	8.6		
11/18/2009 11:45	0.229	0.229	0.114	11	*96*	10.3	8.6		
11/18/2009 12:00	0.229	0.229	0.114	11.1	*148*	10.3	8.6		
11/18/2009 12:15	0.229	0.229	0.114	11.1	*116*	10.3	8.6		
11/18/2009 12:30	0.229	0.229	0.114	11.1	*118*	10.3	8.6		
11/18/2009 12:45	0.231	0.231	0.116	11.1	*92*	10.3	8.6		
11/18/2009 13:00	0.227	0.227	0.111	11.1	*114*	10.3	8.6		
11/18/2009 13:15	0.228	0.228	0.112	11.1	*164*	10.3	8.6		
11/18/2009 13:30	0.229	0.229	0.114	11.2	*84*	10.3	8.6		
11/18/2009 13:45	0.228	0.228	0.112	11.4	*86*	10.3	8.6		
11/18/2009 14:00	0.229	0.229	0.114	11.4	*88*	10.3	8.6		13:57
11/18/2009 14:15	0.228	0.228	0.112	11.5	*76*	10.3	8.6		
11/18/2009 14:30	0.227	0.227	0.111	11.5	*82*	10.3	8.7		
11/18/2009 14:45	0.231	0.231	0.116	11.5	*78*	10.2	8.7		
11/18/2009 15:00	0.23	0.23	0.115	11.6	*66*	10.2	8.7		
11/18/2009 15:15	0.229	0.229	0.114	11.6	*88*	10.2	8.6		
11/18/2009 15:30	0.229	0.229	0.114	11.6	*70*	10.2	8.6		
11/18/2009 15:45	0.228	0.228	0.112	11.6	*86*	10.2	8.6		
11/18/2009 16:00	0.225	0.225	0.109	11.5	*110*	10.2	8.6		
11/18/2009 16:15	0.227	0.227	0.111	11.6	*100*	10.2	8.6		
11/18/2009 16:30	0.227	0.227	0.111	11.5	*130*	10.1	8.6		
11/18/2009 16:45	0.227	0.227	0.111	11.5	*100*	10.1	8.6		
11/18/2009 17:00	0.226	0.226	0.110	11.5	*94*	10.1	8.6		
11/18/2009 17:15	0.227	0.227	0.111	11.5	*80*	10.1	8.6		
11/18/2009 17:30	0.228	0.228	0.112	11.4	*70*	10.1	8.6		
11/18/2009 17:45	0.227	0.227	0.111	11.4	*64*	10.1	8.6		
11/18/2009 18:00	0.226	0.226	0.110	11.4	*54*	10.1	8.6		
11/18/2009 18:15	0.227	0.227	0.111	11.4	*68*	10.1	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/18/2009 18:30	0.226	0.226	0.110	11.4	*58*	10.1	8.6		
11/18/2009 18:45	0.228	0.228	0.112	11.3	*60*	10.1	8.6		
11/18/2009 19:00	0.225	0.225	0.109	11.3	*52*	10.1	8.6		
11/18/2009 19:15	0.226	0.226	0.110	11.3	*48*	10.1	8.6		
11/18/2009 19:30	0.225	0.225	0.109	11.3	*52*	10.1	8.6		
11/18/2009 19:45	0.227	0.227	0.111	11.2	*62*	10.1	8.6		
11/18/2009 20:00	0.226	0.226	0.110	11.2	*70*	10.1	8.6		
11/18/2009 20:15	0.226	0.226	0.110	11.2	*110*	10.2	8.6		
11/18/2009 20:30	0.225	0.225	0.109	11.2	*62*	10.1	8.6		
11/18/2009 20:45	0.224	0.224	0.107	11.1	*52*	10.1	8.6		
11/18/2009 21:00	0.221	0.221	0.104	11.1	*50*	10.1	8.6		
11/18/2009 21:15	0.217	0.217	0.099	11.1	*58*	10.2	8.6		
11/18/2009 21:30	0.217	0.217	0.099	11	*50*	10.2	8.6		
11/18/2009 21:45	0.217	0.217	0.099	11	*48*	10.2	8.6		
11/18/2009 22:00	0.216	0.216	0.098	10.9	*52*	10.2	8.6		
11/18/2009 22:15	0.215	0.215	0.097	10.8	*116*	10.2	8.6		
11/18/2009 22:30	0.215	0.215	0.097	10.8	*92*	10.2	8.6		
11/18/2009 22:45	0.216	0.216	0.098	10.7	*78*	10.2	8.6		
11/18/2009 23:00	0.216	0.216	0.098	10.7	*66*	10.2	8.6		
11/18/2009 23:15	0.216	0.216	0.098	10.7	*64*	10.3	8.6		
11/18/2009 23:30	0.215	0.215	0.097	10.6	*52*	10.3	8.6		
11/18/2009 23:45	0.215	0.215	0.097	10.6	*50*	10.3	8.6		
11/19/2009 0:00	0.216	0.216	0.098	10.6	*50*	10.3	8.6		
11/19/2009 0:15	0.214	0.214	0.095	10.6	*48*	10.3	8.6		
11/19/2009 0:30	0.215	0.215	0.097	10.5	*56*	10.3	8.6		
11/19/2009 0:45	0.215	0.215	0.097	10.5	*72*	10.3	8.6		
11/19/2009 1:00	0.213	0.213	0.094	10.5	*54*	10.3	8.6		
11/19/2009 1:15	0.214	0.214	0.095	10.5	*52*	10.3	8.6		
11/19/2009 1:30	0.213	0.213	0.094	10.4	*48*	10.3	8.6		
11/19/2009 1:45	0.214	0.214	0.095	10.4	*48*	10.3	8.6		
11/19/2009 2:00	0.213	0.213	0.094	10.4	*46*	10.3	8.6		
11/19/2009 2:15	0.215	0.215	0.097	10.3	*46*	10.3	8.6		
11/19/2009 2:30	0.214	0.214	0.095	10.3	*50*	10.3	8.6		
11/19/2009 2:45	0.213	0.213	0.094	10.3	*50*	10.4	8.6		
11/19/2009 3:00	0.212	0.212	0.093	10.3	*48*	10.3	8.6		
11/19/2009 3:15	0.213	0.213	0.094	10.2	*48*	10.4	8.6		
11/19/2009 3:30	0.214	0.214	0.095	10.2	*50*	10.4	8.6		
11/19/2009 3:45	0.212	0.212	0.093	10.2	*82*	10.4	8.6		
11/19/2009 4:00	0.213	0.213	0.094	10.1	*90*	10.4	8.6		
11/19/2009 4:15	0.212	0.212	0.093	10.1	*72*	10.4	8.6		
11/19/2009 4:30	0.214	0.214	0.095	10.1	*104*	10.4	8.6		
11/19/2009 4:45	0.214	0.214	0.095	10	*62*	10.4	8.6		
11/19/2009 5:00	0.213	0.213	0.094	10	*50*	10.4	8.6		
11/19/2009 5:15	0.21	0.21	0.091	10	*46*	10.4	8.6		
11/19/2009 5:30	0.214	0.214	0.095	9.9	*46*	10.4	8.6		
11/19/2009 5:45	0.211	0.211	0.092	9.9	*46*	10.4	8.6		
11/19/2009 6:00	0.211	0.211	0.092	9.9	*48*	10.5	8.6		
11/19/2009 6:15	0.21	0.21	0.091	9.8	*44*	10.4	8.6		
11/19/2009 6:30	0.212	0.212	0.093	9.8	*60*	10.5	8.6		
11/19/2009 6:45	0.211	0.211	0.092	9.8	*52*	10.5	8.6		
11/19/2009 7:00	0.212	0.212	0.093	9.8	*58*	10.5	8.6		
11/19/2009 7:15	0.212	0.212	0.093	9.7	*48*	10.5	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/19/2009 7:30	0.214	0.214	0.095	9.7	*46*	10.5	8.6		
11/19/2009 7:45	0.212	0.212	0.093	9.7	*64*	10.5	8.6		
11/19/2009 8:00	0.212	0.212	0.093	9.7	*58*	10.5	8.6		
11/19/2009 8:15	0.211	0.211	0.092	9.7	*58*	10.5	8.6		
11/19/2009 8:30	0.214	0.214	0.095	9.6	*52*	10.6	8.6		
11/19/2009 8:45	0.211	0.211	0.092	9.7	*46*	10.6	8.6		
11/19/2009 9:00	0.212	0.212	0.093	9.7	*48*	10.6	8.6		
11/19/2009 9:15	0.213	0.213	0.094	9.7	*46*	10.6	8.6		
11/19/2009 9:30	0.21	0.21	0.091	9.7	*46*	10.6	8.6		
11/19/2009 9:45	0.212	0.212	0.093	9.8	*46*	10.7	8.6		
11/19/2009 10:00	0.212	0.212	0.093	9.8	*46*	10.7	8.6		
11/19/2009 10:15	0.21	0.21	0.091	9.8	*50*	10.7	8.6		
11/19/2009 10:30	0.211	0.211	0.092	9.9	*44*	10.7	8.6		
11/19/2009 10:45	0.211	0.211	0.092	10	*48*	10.7	8.6		
11/19/2009 11:00	0.21	0.21	0.091	10.1	*48*	10.7	8.6		
11/19/2009 11:15	0.21	0.21	0.091	10.2	*50*	10.7	8.7		
11/19/2009 11:30	0.21	0.21	0.091	10.3	*46*	10.7	8.7		
11/19/2009 11:45	0.209	0.209	0.090	10.3	*46*	10.6	8.7		
11/19/2009 12:00	0.208	0.208	0.089	10.3	*46*	10.6	8.7		
11/19/2009 12:15	0.21	0.21	0.091	10.4	*48*	10.6	8.7		
11/19/2009 12:30	0.208	0.208	0.089	10.5	*46*	10.6	8.7		
11/19/2009 12:45	0.209	0.209	0.090	10.5	*46*	10.6	8.7		
11/19/2009 13:00	0.21	0.21	0.091	10.6	*46*	10.5	8.7		
11/19/2009 13:15	0.21	0.21	0.091	10.6	*44*	10.5	8.7		
11/19/2009 13:30	0.21	0.21	0.091	10.6	*48*	10.5	8.7		
11/19/2009 13:45	0.21	0.21	0.091	10.6	*46*	10.5	8.7		
11/19/2009 14:00	0.21	0.21	0.091	10.5	*44*	10.5	8.7		13:57
11/19/2009 14:15	0.21	0.21	0.091	10.5	*46*	10.5	8.7		
11/19/2009 14:30	0.208	0.208	0.089	10.5	*44*	10.4	8.7		
11/19/2009 14:45	0.208	0.208	0.089	10.6	*46*	10.4	8.7		
11/19/2009 15:00	0.208	0.208	0.089	10.6	*46*	10.4	8.7		
11/19/2009 15:15	0.209	0.209	0.090	10.6	*48*	10.4	8.6		
11/19/2009 15:30	0.21	0.21	0.091	10.6	*46*	10.4	8.6		
11/19/2009 15:45	0.207	0.207	0.088	10.6	*48*	10.4	8.6		
11/19/2009 16:00	0.209	0.209	0.090	10.6	*44*	10.4	8.6		
11/19/2009 16:15	0.209	0.209	0.090	10.6	*44*	10.3	8.6		
11/19/2009 16:30	0.208	0.208	0.089	10.5	*44*	10.4	8.6		
11/19/2009 16:45	0.209	0.209	0.090	10.5	*46*	10.4	8.6		
11/19/2009 17:00	0.21	0.21	0.091	10.4	*48*	10.4	8.6		
11/19/2009 17:15	0.208	0.208	0.089	10.3	*44*	10.4	8.6		
11/19/2009 17:30	0.208	0.208	0.089	10.2	*44*	10.4	8.6		
11/19/2009 17:45	0.208	0.208	0.089	10.1	*46*	10.4	8.6		
11/19/2009 18:00	0.208	0.208	0.089	10	*44*	10.4	8.6		
11/19/2009 18:15	0.208	0.208	0.089	9.9	*44*	10.5	8.6		
11/19/2009 18:30	0.208	0.208	0.089	9.8	*46*	10.5	8.6		
11/19/2009 18:45	0.207	0.207	0.088	9.7	*44*	10.5	8.6		
11/19/2009 19:00	0.207	0.207	0.088	9.6	*44*	10.5	8.6		
11/19/2009 19:15	0.208	0.208	0.089	9.5	*46*	10.6	8.6		
11/19/2009 19:30	0.208	0.208	0.089	9.4	*46*	10.6	8.6		
11/19/2009 19:45	0.208	0.208	0.089	9.3	*46*	10.6	8.6		
11/19/2009 20:00	0.208	0.208	0.089	9.2	*44*	10.6	8.6		
11/19/2009 20:15	0.206	0.206	0.087	9.1	*42*	10.6	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/19/2009 20:30	0.208	0.208	0.089	9	*44*	10.7	8.6		
11/19/2009 20:45	0.206	0.206	0.087	8.9	*46*	10.7	8.6		
11/19/2009 21:00	0.208	0.208	0.089	8.9	*46*	10.7	8.6		
11/19/2009 21:15	0.208	0.208	0.089	8.8	*46*	10.7	8.6		
11/19/2009 21:30	0.206	0.206	0.087	8.7	*46*	10.8	8.5		
11/19/2009 21:45	0.207	0.207	0.088	8.6	*46*	10.8	8.5		
11/19/2009 22:00	0.207	0.207	0.088	8.5	*46*	10.8	8.5		
11/19/2009 22:15	0.207	0.207	0.088	8.4	*46*	10.8	8.5		
11/19/2009 22:30	0.208	0.208	0.089	8.3	*44*	10.9	8.5		
11/19/2009 22:45	0.208	0.208	0.089	8.2	*46*	10.9	8.5		
11/19/2009 23:00	0.207	0.207	0.088	8.2	*46*	10.9	8.5		
11/19/2009 23:15	0.206	0.206	0.087	8.1	*46*	10.9	8.5		
11/19/2009 23:30	0.208	0.208	0.089	8	*44*	10.9	8.5		
11/19/2009 23:45	0.204	0.204	0.085	8	*44*	11	8.5		
11/20/2009 0:00	0.206	0.206	0.087	7.9	*46*	11	8.5		
11/20/2009 0:15	0.206	0.206	0.087	7.8	*46*	11	8.5		
11/20/2009 0:30	0.206	0.206	0.087	7.7	*44*	11	8.5		
11/20/2009 0:45	0.206	0.206	0.087	7.7	*44*	11	8.5		
11/20/2009 1:00	0.206	0.206	0.087	7.6	*48*	11	8.5		
11/20/2009 1:15	0.206	0.206	0.087	7.6	*44*	11	8.5		
11/20/2009 1:30	0.205	0.205	0.086	7.5	*44*	11	8.5		
11/20/2009 1:45	0.205	0.205	0.086	7.5	*44*	11.1	8.5		
11/20/2009 2:00	0.206	0.206	0.087	7.4	*50*	11.1	8.5		
11/20/2009 2:15	0.206	0.206	0.087	7.4	*46*	11.1	8.5		
11/20/2009 2:30	0.206	0.206	0.087	7.4	*46*	11.1	8.5		
11/20/2009 2:45	0.207	0.207	0.088	7.3	*48*	11.1	8.5		
11/20/2009 3:00	0.206	0.206	0.087	7.3	*46*	11.2	8.5		
11/20/2009 3:15	0.205	0.205	0.086	7.3	*44*	11.1	8.5		
11/20/2009 3:30	0.205	0.205	0.086	7.2	*46*	11.1	8.5		
11/20/2009 3:45	0.206	0.206	0.087	7.2	*46*	11.1	8.5		
11/20/2009 4:00	0.207	0.207	0.088	7.2	*44*	11.2	8.5		
11/20/2009 4:15	0.206	0.206	0.087	7.2	*46*	11.2	8.5		
11/20/2009 4:30	0.205	0.205	0.086	7.1	*46*	11.2	8.5		
11/20/2009 4:45	0.206	0.206	0.087	7.1	*48*	11.2	8.5		
11/20/2009 5:00	0.205	0.205	0.086	7.1	*46*	11.2	8.5		
11/20/2009 5:15	0.206	0.206	0.087	7.1	*46*	11.2	8.5		
11/20/2009 5:30	0.204	0.204	0.085	7	*46*	11.2	8.5		
11/20/2009 5:45	0.205	0.205	0.086	7	*48*	11.2	8.5		
11/20/2009 6:00	0.206	0.206	0.087	7	*46*	11.2	8.5		
11/20/2009 6:15	0.204	0.204	0.085	7	*50*	11.3	8.5		
11/20/2009 6:30	0.204	0.204	0.085	6.9	*46*	11.2	8.5		
11/20/2009 6:45	0.204	0.204	0.085	6.9	*48*	11.2	8.5		
11/20/2009 7:00	0.207	0.207	0.088	6.9	*46*	11.2	8.5		
11/20/2009 7:15	0.205	0.205	0.086	6.8	*50*	11.2	8.5		
11/20/2009 7:30	0.206	0.206	0.087	6.8	*46*	11.3	8.5		
11/20/2009 7:45	0.204	0.204	0.085	6.8	*46*	11.3	8.5		
11/20/2009 8:00	0.205	0.205	0.086	6.8	*46*	11.3	8.6		
11/20/2009 8:15	0.205	0.205	0.086	6.8	*46*	11.3	8.6		
11/20/2009 8:30	0.203	0.203	0.084	6.8	*46*	11.4	8.6		
11/20/2009 8:45	0.205	0.205	0.086	6.8	*48*	11.4	8.6		
11/20/2009 9:00	0.205	0.205	0.086	6.8	*46*	11.4	8.6		
11/20/2009 9:15	0.203	0.203	0.084	6.9	*48*	11.4	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/20/2009 9:30	0.204	0.204	0.085	6.9	*46*	11.4	8.6		
11/20/2009 9:45	0.204	0.204	0.085	7	*46*	11.4	8.6		
11/20/2009 10:00	0.204	0.204	0.085	7.1	*44*	11.4	8.6		
11/20/2009 10:15	0.204	0.204	0.085	7.2	*46*	11.4	8.6		
11/20/2009 10:30	0.205	0.205	0.086	7.2	*46*	11.4	8.6		
11/20/2009 10:45	0.204	0.204	0.085	7.2	*44*	11.4	8.6		
11/20/2009 11:00	0.203	0.203	0.084	7.3	*44*	11.3	8.6		
11/20/2009 11:15	0.206	0.206	0.087	7.4	*46*	11.3	8.6		
11/20/2009 11:30	0.207	0.207	0.088	7.5	*50*	11.3	8.6		
11/20/2009 11:45	0.204	0.204	0.085	7.6	*46*	11.2	8.6		
11/20/2009 12:00	0.203	0.203	0.084	7.8	*46*	11.3	8.6		
11/20/2009 12:15	0.205	0.205	0.086	7.9	*46*	11.2	8.6		
11/20/2009 12:30	0.204	0.204	0.085	8.1	*46*	11.1	8.6		
11/20/2009 12:45	0.205	0.205	0.086	8.3	*46*	11.1	8.6		
11/20/2009 13:00	0.203	0.203	0.084	8.4	*48*	11.1	8.6		
11/20/2009 13:15	0.203	0.203	0.084	8.6	*46*	11	8.6		
11/20/2009 13:30	0.203	0.203	0.084	8.7	*46*	10.9	8.6		
11/20/2009 13:45	0.204	0.204	0.085	8.8	*48*	10.9	8.6		
11/20/2009 14:00	0.203	0.203	0.084	8.9	*44*	10.8	8.6		13:57
11/20/2009 14:15	0.203	0.203	0.084	9	*44*	10.8	8.6		
11/20/2009 14:30	0.203	0.203	0.084	9.1	*44*	10.8	8.7		
11/20/2009 14:45	0.204	0.204	0.085	9.2	*46*	10.7	8.7		
11/20/2009 15:00	0.203	0.203	0.084	9.3	*46*	10.7	8.6		
11/20/2009 15:15	0.202	0.202	0.083	9.4	*46*	10.7	8.6		
11/20/2009 15:30	0.203	0.203	0.084	9.4	*44*	10.7	8.6		
11/20/2009 15:45	0.202	0.202	0.083	9.5	*44*	10.6	8.6		
11/20/2009 16:00	0.203	0.203	0.084	9.5	*44*	10.6	8.6		
11/20/2009 16:15	0.202	0.202	0.083	9.6	*44*	10.6	8.6		
11/20/2009 16:30	0.202	0.202	0.083	9.6	*44*	10.6	8.6		
11/20/2009 16:45	0.201	0.201	0.082	9.6	*42*	10.6	8.6		
11/20/2009 17:00	0.205	0.205	0.086	9.5	*42*	10.6	8.6		
11/20/2009 17:15	0.201	0.201	0.082	9.5	*42*	10.5	8.6		
11/20/2009 17:30	0.203	0.203	0.084	9.4	*42*	10.5	8.6		
11/20/2009 17:45	0.201	0.201	0.082	9.4	*42*	10.5	8.6		
11/20/2009 18:00	0.203	0.203	0.084	9.3	*42*	10.6	8.6		
11/20/2009 18:15	0.203	0.203	0.084	9.2	*40*	10.6	8.6		
11/20/2009 18:30	0.201	0.201	0.082	9.1	*42*	10.6	8.6		
11/20/2009 18:45	0.201	0.201	0.082	9.1	*42*	10.6	8.6		
11/20/2009 19:00	0.201	0.201	0.082	9	*42*	10.6	8.6		
11/20/2009 19:15	0.201	0.201	0.082	8.9	*42*	10.7	8.6		
11/20/2009 19:30	0.202	0.202	0.083	8.9	*42*	10.6	8.6		
11/20/2009 19:45	0.202	0.202	0.083	8.8	*42*	10.7	8.6		
11/20/2009 20:00	0.2	0.2	0.081	8.7	*44*	10.7	8.6		
11/20/2009 20:15	0.201	0.201	0.082	8.6	*42*	10.7	8.6		
11/20/2009 20:30	0.201	0.201	0.082	8.6	*42*	10.8	8.6		
11/20/2009 20:45	0.201	0.201	0.082	8.5	*42*	10.7	8.6		
11/20/2009 21:00	0.201	0.201	0.082	8.4	*44*	10.8	8.6		
11/20/2009 21:15	0.201	0.201	0.082	8.3	*42*	10.8	8.6		
11/20/2009 21:30	0.201	0.201	0.082	8.2	*42*	10.8	8.6		
11/20/2009 21:45	0.201	0.201	0.082	8.2	*44*	10.9	8.6		
11/20/2009 22:00	0.201	0.201	0.082	8.1	*42*	10.8	8.6		
11/20/2009 22:15	0.2	0.2	0.081	8	*48*	10.9	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/20/2009 22:30	0.202	0.202	0.083	8	*46*	10.9	8.6		
11/20/2009 22:45	0.201	0.201	0.082	7.9	*46*	10.9	8.6		
11/20/2009 23:00	0.2	0.2	0.081	7.8	*44*	10.9	8.6		
11/20/2009 23:15	0.202	0.202	0.083	7.8	*44*	10.9	8.6		
11/20/2009 23:30	0.2	0.2	0.081	7.7	*44*	10.9	8.6		
11/20/2009 23:45	0.201	0.201	0.082	7.7	*44*	10.9	8.6		
11/21/2009 0:00	0.201	0.201	0.082	7.6	*46*	10.9	8.6		
11/21/2009 0:15	0.201	0.201	0.082	7.6	*44*	11	8.6		
11/21/2009 0:30	0.2	0.2	0.081	7.6	*46*	11	8.6		
11/21/2009 0:45	0.202	0.202	0.083	7.5	*44*	11	8.6		
11/21/2009 1:00	0.201	0.201	0.082	7.5	*44*	11	8.6		
11/21/2009 1:15	0.199	0.199	0.080	7.4	*44*	11	8.6		
11/21/2009 1:30	0.201	0.201	0.082	7.4	*46*	11.1	8.5		
11/21/2009 1:45	0.2	0.2	0.081	7.3	*46*	11	8.5		
11/21/2009 2:00	0.199	0.199	0.080	7.3	*46*	11	8.5		
11/21/2009 2:15	0.201	0.201	0.082	7.3	*44*	11.1	8.6		
11/21/2009 2:30	0.199	0.199	0.080	7.2	*42*	11	8.5		
11/21/2009 2:45	0.201	0.201	0.082	7.2	*44*	11.1	8.5		
11/21/2009 3:00	0.201	0.201	0.082	7.2	*44*	11.1	8.5		
11/21/2009 3:15	0.199	0.199	0.080	7.1	*44*	11.1	8.5		
11/21/2009 3:30	0.2	0.2	0.081	7.1	*44*	11.1	8.5		
11/21/2009 3:45	0.201	0.201	0.082	7.1	*44*	11.1	8.5		
11/21/2009 4:00	0.2	0.2	0.081	7.1	*42*	11.1	8.5		
11/21/2009 4:15	0.199	0.199	0.080	7	*44*	11.1	8.5		
11/21/2009 4:30	0.2	0.2	0.081	7	*44*	11.1	8.5		
11/21/2009 4:45	0.199	0.199	0.080	7	*44*	11.1	8.5		
11/21/2009 5:00	0.2	0.2	0.081	7	*42*	11.1	8.5		
11/21/2009 5:15	0.2	0.2	0.081	7	*46*	11.1	8.5		
11/21/2009 5:30	0.201	0.201	0.082	6.9	*46*	11.1	8.5		
11/21/2009 5:45	0.201	0.201	0.082	6.9	*44*	11.2	8.5		
11/21/2009 6:00	0.201	0.201	0.082	6.9	*44*	11.1	8.5		
11/21/2009 6:15	0.201	0.201	0.082	6.9	*46*	11.1	8.5		
11/21/2009 6:30	0.201	0.201	0.082	6.9	*42*	11.1	8.5		
11/21/2009 6:45	0.198	0.198	0.079	6.8	*44*	11.1	8.5		
11/21/2009 7:00	0.201	0.201	0.082	6.8	*44*	11.2	8.5		
11/21/2009 7:15	0.2	0.2	0.081	6.7	*44*	11.2	8.5		
11/21/2009 7:30	0.2	0.2	0.081	6.7	*42*	11.2	8.5		
11/21/2009 7:45	0.198	0.198	0.079	6.7	*44*	11.2	8.5		
11/21/2009 8:00	0.197	0.197	0.078	6.7	*44*	11.2	8.5		
11/21/2009 8:15	0.197	0.197	0.078	6.7	*48*	11.3	8.6		
11/21/2009 8:30	0.199	0.199	0.080	6.7	*44*	11.3	8.6		
11/21/2009 8:45	0.199	0.199	0.080	6.7	*46*	11.3	8.6		
11/21/2009 9:00	0.198	0.198	0.079	6.7	*44*	11.3	8.6		
11/21/2009 9:15	0.199	0.199	0.080	6.8	*44*	11.4	8.5		
11/21/2009 9:30	0.198	0.198	0.079	6.9	*44*	11.3	8.6		
11/21/2009 9:45	0.199	0.199	0.080	7	*48*	11.3	8.6		
11/21/2009 10:00	0.199	0.199	0.080	7.1	*46*	11.3	8.6		
11/21/2009 10:15	0.197	0.197	0.078	7.1	*46*	11.3	8.6		
11/21/2009 10:30	0.199	0.199	0.080	7.2	*46*	11.3	8.6		
11/21/2009 10:45	0.198	0.198	0.079	7.3	*44*	11.3	8.6		
11/21/2009 11:00	0.199	0.199	0.080	7.4	*46*	11.2	8.6		
11/21/2009 11:15	0.198	0.198	0.079	7.6	*48*	11.3	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/21/2009 11:30	0.199	0.199	0.080	7.7	*44*	11.2	8.6		
11/21/2009 11:45	0.198	0.198	0.079	7.8	*44*	11.3	8.1		
11/21/2009 12:00	0.198	0.198	0.079	8	*42*	11.1	8.5		
11/21/2009 12:15	0.198	0.198	0.079	8.2	*44*	11	8.6		
11/21/2009 12:30	0.198	0.198	0.079	8.3	*42*	11.1	8.5		
11/21/2009 12:45	0.2	0.2	0.081	8.5	*42*	10.9	8.6		
11/21/2009 13:00	0.199	0.199	0.080	8.6	*42*	10.9	8.6		
11/21/2009 13:15	0.198	0.198	0.079	8.8	*42*	10.8	8.6		
11/21/2009 13:30	0.198	0.198	0.079	8.9	*42*	10.8	8.6		
11/21/2009 13:45	0.2	0.2	0.081	9	*44*	10.8	8.6		
11/21/2009 14:00	0.197	0.197	0.078	9.1	*42*	10.7	8.6		13:57
11/21/2009 14:15	0.198	0.198	0.079	9.2	*44*	10.7	8.6		
11/21/2009 14:30	0.198	0.198	0.079	9.3	*44*	10.7	8.6		
11/21/2009 14:45	0.198	0.198	0.079	9.3	*44*	10.7	8.6		
11/21/2009 15:00	0.198	0.198	0.079	9.4	*42*	10.6	8.6		
11/21/2009 15:15	0.199	0.199	0.080	9.5	*46*	10.6	8.6		
11/21/2009 15:30	0.199	0.199	0.080	9.5	*44*	10.6	8.6		
11/21/2009 15:45	0.199	0.199	0.080	9.6	*44*	10.5	8.6		
11/21/2009 16:00	0.199	0.199	0.080	9.6	*44*	10.5	8.6		
11/21/2009 16:15	0.197	0.197	0.078	9.7	*44*	10.5	8.6		
11/21/2009 16:30	0.195	0.195	0.077	9.6	*46*	10.5	8.6		
11/21/2009 16:45	0.195	0.195	0.077	9.6	*46*	10.5	8.6		
11/21/2009 17:00	0.195	0.195	0.077	9.6	*46*	10.5	8.6		
11/21/2009 17:15	0.193	0.193	0.075	9.6	*46*	10.5	8.6		
11/21/2009 17:30	0.194	0.194	0.076	9.5	*44*	10.5	8.6		
11/21/2009 17:45	0.196	0.196	0.077	9.4	*44*	10.5	8.6		
11/21/2009 18:00	0.196	0.196	0.077	9.4	*42*	10.5	8.5		
11/21/2009 18:15	0.196	0.196	0.077	9.3	*42*	10.5	8.5		
11/21/2009 18:30	0.195	0.195	0.077	9.2	*42*	10.5	8.5		
11/21/2009 18:45	0.193	0.193	0.075	9.1	*44*	10.5	8.5		
11/21/2009 19:00	0.195	0.195	0.077	9	*42*	10.6	8.5		
11/21/2009 19:15	0.195	0.195	0.077	9	*44*	10.6	8.5		
11/21/2009 19:30	0.195	0.195	0.077	8.9	*44*	10.6	8.6		
11/21/2009 19:45	0.196	0.196	0.077	8.8	*42*	10.6	8.5		
11/21/2009 20:00	0.195	0.195	0.077	8.7	*42*	10.6	8.5		
11/21/2009 20:15	0.197	0.197	0.078	8.7	*42*	10.6	8.5		
11/21/2009 20:30	0.194	0.194	0.076	8.6	*46*	10.6	8.5		
11/21/2009 20:45	0.194	0.194	0.076	8.5	*42*	10.7	8.5		
11/21/2009 21:00	0.194	0.194	0.076	8.5	*44*	10.7	8.5		
11/21/2009 21:15	0.194	0.194	0.076	8.4	*42*	10.7	8.5		
11/21/2009 21:30	0.201	0.201	0.082	8.4	*42*	10.7	8.5		
11/21/2009 21:45	0.203	0.203	0.084	8.3	*42*	10.7	8.5		
11/21/2009 22:00	0.203	0.203	0.084	8.3	*42*	10.8	8.5		
11/21/2009 22:15	0.203	0.203	0.084	8.2	*44*	10.7	8.5		
11/21/2009 22:30	0.202	0.202	0.083	8.2	*48*	10.8	8.5		
11/21/2009 22:45	0.202	0.202	0.083	8.1	*46*	10.8	8.5		
11/21/2009 23:00	0.201	0.201	0.082	8.1	*44*	10.8	8.5		
11/21/2009 23:15	0.201	0.201	0.082	8	*44*	10.8	8.5		
11/21/2009 23:30	0.198	0.198	0.079	8	*44*	10.8	8.5		
11/21/2009 23:45	0.197	0.197	0.078	7.9	*46*	10.9	8.5		
11/22/2009 0:00	0.198	0.198	0.079	7.8	*44*	10.8	8.5		
11/22/2009 0:15	0.197	0.197	0.078	7.8	*42*	10.9	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/22/2009 0:30	0.195	0.195	0.077	7.7	*50*	10.9	8.5		
11/22/2009 0:45	0.202	0.202	0.083	7.6	*50*	10.9	8.5		
11/22/2009 1:00	0.203	0.203	0.084	7.6	*50*	10.9	8.5		
11/22/2009 1:15	0.203	0.203	0.084	7.5	*50*	10.9	8.5		
11/22/2009 1:30	0.206	0.206	0.087	7.4	*50*	11	8.5		
11/22/2009 1:45	0.207	0.207	0.088	7.4	*50*	11	8.5		
11/22/2009 2:00	0.205	0.205	0.086	7.3	*50*	11	8.5		
11/22/2009 2:15	0.206	0.206	0.087	7.3	*48*	11	8.5		
11/22/2009 2:30	0.207	0.207	0.088	7.2	*48*	11	8.5		
11/22/2009 2:45	0.206	0.206	0.087	7.1	*50*	11	8.5		
11/22/2009 3:00	0.206	0.206	0.087	7.1	*50*	11.1	8.5		
11/22/2009 3:15	0.205	0.205	0.086	7	*48*	11	8.5		
11/22/2009 3:30	0.206	0.206	0.087	7	*124*	11.1	8.5		
11/22/2009 3:45	0.206	0.206	0.087	6.9	*112*	11.1	8.5		
11/22/2009 4:00	0.206	0.206	0.087	6.9	*90*	11.1	8.5		
11/22/2009 4:15	0.206	0.206	0.087	6.8	*76*	11.1	8.5		
11/22/2009 4:30	0.205	0.205	0.086	6.8	*72*	11.1	8.5		
11/22/2009 4:45	0.205	0.205	0.086	6.7	*72*	11.1	8.5		
11/22/2009 5:00	0.206	0.206	0.087	6.7	*66*	11.1	8.5		
11/22/2009 5:15	0.206	0.206	0.087	6.7	*74*	11.1	8.5		
11/22/2009 5:30	0.204	0.204	0.085	6.7	*68*	11.2	8.5		
11/22/2009 5:45	0.205	0.205	0.086	6.7	*62*	11.1	8.5		
11/22/2009 6:00	0.206	0.206	0.087	6.6	*58*	11.1	8.5		
11/22/2009 6:15	0.206	0.206	0.087	6.6	*50*	11.2	8.5		
11/22/2009 6:30	0.207	0.207	0.088	6.6	*62*	11.2	8.5		
11/22/2009 6:45	0.206	0.206	0.087	6.6	*64*	11.2	8.5		
11/22/2009 7:00	0.206	0.206	0.087	6.5	*62*	11.2	8.5		
11/22/2009 7:15	0.207	0.207	0.088	6.5	*68*	11.2	8.5		
11/22/2009 7:30	0.207	0.207	0.088	6.5	*62*	11.2	8.5		
11/22/2009 7:45	0.206	0.206	0.087	6.5	*58*	11.2	8.5		
11/22/2009 8:00	0.206	0.206	0.087	6.5	*62*	11.2	8.5		
11/22/2009 8:15	0.207	0.207	0.088	6.5	*64*	11.2	8.5		
11/22/2009 8:30	0.206	0.206	0.087	6.5	*60*	11.3	8.5		
11/22/2009 8:45	0.207	0.207	0.088	6.5	*62*	11.3	8.5		
11/22/2009 9:00	0.206	0.206	0.087	6.6	*60*	11.3	8.5		
11/22/2009 9:15	0.206	0.206	0.087	6.7	*58*	11.3	8.5		
11/22/2009 9:30	0.206	0.206	0.087	6.7	*58*	11.3	8.5		
11/22/2009 9:45	0.205	0.205	0.086	6.8	*62*	11.3	8.5		
11/22/2009 10:00	0.205	0.205	0.086	6.8	*60*	11.3	8.6		
11/22/2009 10:15	0.205	0.205	0.086	6.9	*60*	11.2	8.6		
11/22/2009 10:30	0.205	0.205	0.086	7	*56*	11.2	8.6		
11/22/2009 10:45	0.204	0.204	0.085	7	*58*	11.2	8.6		
11/22/2009 11:00	0.205	0.205	0.086	7.1	*62*	11.2	8.6		
11/22/2009 11:15	0.205	0.205	0.086	7.2	*66*	11.2	8.6		
11/22/2009 11:30	0.206	0.206	0.087	7.3	*58*	11.2	8.6		
11/22/2009 11:45	0.204	0.204	0.085	7.3	*58*	11.2	8.6		
11/22/2009 12:00	0.206	0.206	0.087	7.4	*60*	11.1	8.6		
11/22/2009 12:15	0.204	0.204	0.085	7.5	*58*	11.1	8.6		
11/22/2009 12:30	0.204	0.204	0.085	7.5	*58*	11	8.6		
11/22/2009 12:45	0.205	0.205	0.086	7.6	*58*	11.1	8.6		
11/22/2009 13:00	0.205	0.205	0.086	7.6	*56*	11	8.6		
11/22/2009 13:15	0.206	0.206	0.087	7.7	*64*	11	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/22/2009 13:30	0.204	0.204	0.085	7.8	*54*	11	8.6		
11/22/2009 13:45	0.207	0.207	0.088	7.9	*60*	11	8.6		
11/22/2009 14:00	0.206	0.206	0.087	8	*58*	11	8.6		13:57
11/22/2009 14:15	0.205	0.205	0.086	8.1	*56*	10.9	8.6		
11/22/2009 14:30	0.205	0.205	0.086	8.2	*50*	10.9	8.6		
11/22/2009 14:45	0.206	0.206	0.087	8.3	*52*	10.9	8.6		
11/22/2009 15:00	0.207	0.207	0.088	8.4	*50*	10.8	8.6		
11/22/2009 15:15	0.206	0.206	0.087	8.4	*52*	10.8	8.6		
11/22/2009 15:30	0.207	0.207	0.088	8.4	*48*	10.8	8.6		
11/22/2009 15:45	0.207	0.207	0.088	8.4	*50*	10.8	8.6		
11/22/2009 16:00	0.207	0.207	0.088	8.5	*50*	10.8	8.6		
11/22/2009 16:15	0.207	0.207	0.088	8.5	*48*	10.7	8.6		
11/22/2009 16:30	0.206	0.206	0.087	8.5	*48*	10.7	8.6		
11/22/2009 16:45	0.205	0.205	0.086	8.6	*48*	10.7	8.6		
11/22/2009 17:00	0.204	0.204	0.085	8.6	*48*	10.7	8.6		
11/22/2009 17:15	0.206	0.206	0.087	8.6	*48*	10.7	8.6		
11/22/2009 17:30	0.204	0.204	0.085	8.6	*46*	10.6	8.6		
11/22/2009 17:45	0.204	0.204	0.085	8.6	*48*	10.6	8.6		
11/22/2009 18:00	0.205	0.205	0.086	8.6	*46*	10.6	8.6		
11/22/2009 18:15	0.208	0.208	0.089	8.6	*44*	10.6	8.6		
11/22/2009 18:30	0.205	0.205	0.086	8.6	*46*	10.6	8.6		
11/22/2009 18:45	0.207	0.207	0.088	8.6	*44*	10.6	8.6		
11/22/2009 19:00	0.208	0.208	0.089	8.6	*44*	10.6	8.6		
11/22/2009 19:15	0.206	0.206	0.087	8.6	*44*	10.6	8.5		
11/22/2009 19:30	0.206	0.206	0.087	8.7	*42*	10.6	8.5		
11/22/2009 19:45	0.206	0.206	0.087	8.7	*42*	10.6	8.5		
11/22/2009 20:00	0.205	0.205	0.086	8.7	*44*	10.6	8.5		
11/22/2009 20:15	0.205	0.205	0.086	8.7	*44*	10.6	8.5		
11/22/2009 20:30	0.206	0.206	0.087	8.7	*44*	10.6	8.5		
11/22/2009 20:45	0.206	0.206	0.087	8.7	*44*	10.6	8.5		
11/22/2009 21:00	0.205	0.205	0.086	8.7	*44*	10.6	8.5		
11/22/2009 21:15	0.205	0.205	0.086	8.7	*46*	10.6	8.5		
11/22/2009 21:30	0.204	0.204	0.085	8.7	*48*	10.6	8.5		
11/22/2009 21:45	0.204	0.204	0.085	8.7	*44*	10.6	8.5		
11/22/2009 22:00	0.206	0.206	0.087	8.7	*44*	10.6	8.5		
11/22/2009 22:15	0.205	0.205	0.086	8.7	*44*	10.6	8.5		
11/22/2009 22:30	0.207	0.207	0.088	8.7	*44*	10.6	8.5		
11/22/2009 22:45	0.206	0.206	0.087	8.7	*44*	10.6	8.5		
11/22/2009 23:00	0.204	0.204	0.085	8.7	*44*	10.5	8.5		
11/22/2009 23:15	0.206	0.206	0.087	8.7	*44*	10.5	8.5		
11/22/2009 23:30	0.206	0.206	0.087	8.7	*44*	10.5	8.5		
11/22/2009 23:45	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 0:00	0.207	0.207	0.088	8.8	*44*	10.6	8.5		
11/23/2009 0:15	0.205	0.205	0.086	8.8	*44*	10.5	8.5		
11/23/2009 0:30	0.207	0.207	0.088	8.8	*44*	10.5	8.5		
11/23/2009 0:45	0.204	0.204	0.085	8.8	*44*	10.5	8.5		
11/23/2009 1:00	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 1:15	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 1:30	0.207	0.207	0.088	8.8	*44*	10.6	8.5		
11/23/2009 1:45	0.207	0.207	0.088	8.8	*44*	10.5	8.5		
11/23/2009 2:00	0.207	0.207	0.088	8.8	*44*	10.5	8.5		
11/23/2009 2:15	0.206	0.206	0.087	8.8	*44*	10.5	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/23/2009 2:30	0.206	0.206	0.087	8.8	*46*	10.5	8.5		
11/23/2009 2:45	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 3:00	0.206	0.206	0.087	8.8	*46*	10.6	8.5		
11/23/2009 3:15	0.204	0.204	0.085	8.8	*44*	10.5	8.5		
11/23/2009 3:30	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 3:45	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 4:00	0.203	0.203	0.084	8.8	*44*	10.5	8.5		
11/23/2009 4:15	0.206	0.206	0.087	8.8	*44*	10.6	8.5		
11/23/2009 4:30	0.205	0.205	0.086	8.8	*44*	10.5	8.5		
11/23/2009 4:45	0.203	0.203	0.084	8.8	*44*	10.5	8.5		
11/23/2009 5:00	0.205	0.205	0.086	8.8	*44*	10.5	8.5		
11/23/2009 5:15	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 5:30	0.206	0.206	0.087	8.8	*44*	10.5	8.5		
11/23/2009 5:45	0.205	0.205	0.086	8.8	*44*	10.5	8.5		
11/23/2009 6:00	0.206	0.206	0.087	8.9	*44*	10.5	8.5		
11/23/2009 6:15	0.206	0.206	0.087	8.9	*44*	10.5	8.5		
11/23/2009 6:30	0.201	0.201	0.082	8.9	*44*	10.5	8.5		
11/23/2009 6:45	0.203	0.203	0.084	8.9	*44*	10.5	8.5		
11/23/2009 7:00	0.202	0.202	0.083	8.9	*44*	10.5	8.5		
11/23/2009 7:15	0.203	0.203	0.084	8.9	*44*	10.5	8.5		
11/23/2009 7:30	0.203	0.203	0.084	8.9	*46*	10.5	8.5		
11/23/2009 7:45	0.203	0.203	0.084	8.9	*46*	10.5	8.5		
11/23/2009 8:00	0.202	0.202	0.083	8.9	*46*	10.5	8.5		
11/23/2009 8:15	0.201	0.201	0.082	8.9	*46*	10.5	8.6		
11/23/2009 8:30	0.203	0.203	0.084	8.9	*44*	10.6	8.6		
11/23/2009 8:45	0.202	0.202	0.083	9	*44*	10.6	8.6		
11/23/2009 9:00	0.203	0.203	0.084	9	*44*	10.6	8.6		
11/23/2009 9:15	0.202	0.202	0.083	9	*44*	10.6	8.6		
11/23/2009 9:30	0.201	0.201	0.082	9.1	*44*	10.6	8.6		
11/23/2009 9:45	0.203	0.203	0.084	9.1	*44*	10.6	8.6		
11/23/2009 10:00	0.201	0.201	0.082	9.2	*44*	10.6	8.6		
11/23/2009 10:15	0.203	0.203	0.084	9.3	*44*	10.6	8.6		
11/23/2009 10:30	0.202	0.202	0.083	9.4	*44*	10.6	8.6		
11/23/2009 10:45	0.203	0.203	0.084	9.5	*44*	10.6	8.6		
11/23/2009 11:00	0.201	0.201	0.082	9.6	*44*	10.6	8.6		
11/23/2009 11:15	0.201	0.201	0.082	9.7	*44*	10.6	8.6		
11/23/2009 11:30	0.203	0.203	0.084	9.8	*44*	10.6	8.7		
11/23/2009 11:45	0.202	0.202	0.083	10	*44*	10.5	8.7		
11/23/2009 12:00	0.203	0.203	0.084	10.1	*44*	10.5	8.7		
11/23/2009 12:15	0.204	0.204	0.085	10.2	*44*	10.5	8.7		
11/23/2009 12:30	0.203	0.203	0.084	10.3	*44*	10.5	8.7		
11/23/2009 12:45	0.203	0.203	0.084	10.4	*44*	10.5	8.7		
11/23/2009 13:00	0.204	0.204	0.085	10.5	*44*	10.4	8.7		
11/23/2009 13:15	0.203	0.203	0.084	10.5	*42*	10.4	8.7		
11/23/2009 13:30	0.2	0.2	0.081	10.6	*44*	10.4	8.7		
11/23/2009 13:45	0.204	0.204	0.085	10.6	*44*	10.3	8.7		
11/23/2009 14:00	0.203	0.203	0.084	10.7	*46*	10.4	8.7		13:57
11/23/2009 14:15	0.203	0.203	0.084	10.7	*44*	10.3	8.7		
11/23/2009 14:30	0.202	0.202	0.083	10.7	*44*	10.3	8.7		
11/23/2009 14:45	0.205	0.205	0.086	10.7	*46*	10.3	8.7		
11/23/2009 15:00	0.203	0.203	0.084	10.8	*46*	10.3	8.7		
11/23/2009 15:15	0.202	0.202	0.083	10.8	*46*	10.3	8.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/23/2009 15:30	0.204	0.204	0.085	10.8	*46*	10.2	8.7		
11/23/2009 15:45	0.203	0.203	0.084	10.8	*46*	10.2	8.7		
11/23/2009 16:00	0.203	0.203	0.084	10.8	*46*	10.2	8.7		
11/23/2009 16:15	0.205	0.205	0.086	10.7	*46*	10.2	8.7		
11/23/2009 16:30	0.203	0.203	0.084	10.7	*46*	10.2	8.7		
11/23/2009 16:45	0.203	0.203	0.084	10.7	*46*	10.1	8.6		
11/23/2009 17:00	0.203	0.203	0.084	10.7	*44*	10.1	8.6		
11/23/2009 17:15	0.204	0.204	0.085	10.7	*44*	10.1	8.6		
11/23/2009 17:30	0.203	0.203	0.084	10.6	*42*	10.1	8.6		
11/23/2009 17:45	0.205	0.205	0.086	10.6	*44*	10.1	8.6		
11/23/2009 18:00	0.205	0.205	0.086	10.6	*44*	10.1	8.6		
11/23/2009 18:15	0.203	0.203	0.084	10.6	*42*	10.1	8.6		
11/23/2009 18:30	0.203	0.203	0.084	10.5	*44*	10.1	8.6		
11/23/2009 18:45	0.203	0.203	0.084	10.5	*44*	10.1	8.6		
11/23/2009 19:00	0.204	0.204	0.085	10.5	*44*	10.1	8.6		
11/23/2009 19:15	0.205	0.205	0.086	10.5	*42*	10.1	8.6		
11/23/2009 19:30	0.205	0.205	0.086	10.5	*42*	10.1	8.6		
11/23/2009 19:45	0.204	0.204	0.085	10.5	*44*	10.1	8.6		
11/23/2009 20:00	0.204	0.204	0.085	10.4	*44*	10.1	8.6		
11/23/2009 20:15	0.204	0.204	0.085	10.4	*42*	10.1	8.6		
11/23/2009 20:30	0.203	0.203	0.084	10.4	*42*	10.1	8.5		
11/23/2009 20:45	0.203	0.203	0.084	10.4	*42*	10.1	8.5		
11/23/2009 21:00	0.204	0.204	0.085	10.4	*42*	10.1	8.5		
11/23/2009 21:15	0.204	0.204	0.085	10.3	*44*	10.1	8.5		
11/23/2009 21:30	0.203	0.203	0.084	10.3	*44*	10.1	8.5		
11/23/2009 21:45	0.204	0.204	0.085	10.3	*42*	10.1	8.5		
11/23/2009 22:00	0.204	0.204	0.085	10.3	*42*	10.2	8.5		
11/23/2009 22:15	0.203	0.203	0.084	10.3	*44*	10.1	8.5		
11/23/2009 22:30	0.203	0.203	0.084	10.3	*44*	10.1	8.5		
11/23/2009 22:45	0.202	0.202	0.083	10.2	*44*	10.1	8.5		
11/23/2009 23:00	0.204	0.204	0.085	10.2	*42*	10.2	8.5		
11/23/2009 23:15	0.203	0.203	0.084	10.2	*42*	10.2	8.5		
11/23/2009 23:30	0.204	0.204	0.085	10.2	*42*	10.2	8.5		
11/23/2009 23:45	0.212	0.212	0.093	10.2	*42*	10.2	8.5		
11/24/2009 0:00	0.212	0.212	0.093	10.2	*46*	10.2	8.5		
11/24/2009 0:15	0.211	0.211	0.092	10.2	*44*	10.2	8.5		
11/24/2009 0:30	0.213	0.213	0.094	10.2	*44*	10.2	8.5		
11/24/2009 0:45	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 1:00	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 1:15	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 1:30	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 1:45	0.211	0.211	0.092	10.1	*44*	10.2	8.5		
11/24/2009 2:00	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 2:15	0.212	0.212	0.093	10.1	*44*	10.2	8.5		
11/24/2009 2:30	0.211	0.211	0.092	10	*44*	10.2	8.5		
11/24/2009 2:45	0.21	0.21	0.091	10	*44*	10.2	8.5		
11/24/2009 3:00	0.21	0.21	0.091	10	*44*	10.2	8.5		
11/24/2009 3:15	0.21	0.21	0.091	10	*44*	10.2	8.5		
11/24/2009 3:30	0.212	0.212	0.093	10	*44*	10.2	8.5		
11/24/2009 3:45	0.211	0.211	0.092	10	*44*	10.2	8.5		
11/24/2009 4:00	0.212	0.212	0.093	9.9	*44*	10.2	8.5		
11/24/2009 4:15	0.213	0.213	0.094	9.9	*44*	10.2	8.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/24/2009 4:30	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 4:45	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 5:00	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 5:15	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 5:30	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 5:45	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 6:00	0.211	0.211	0.092	9.9	*44*	10.2	8.5		
11/24/2009 6:15	0.197	0.197	0.078	9.8	*44*	10.2	8.5		
11/24/2009 6:30	0.199	0.199	0.080	9.8	*42*	10.2	8.5		
11/24/2009 6:45	0.199	0.199	0.080	9.8	*42*	10.2	8.5		
11/24/2009 7:00	0.199	0.199	0.080	9.8	*46*	10.2	8.5		
11/24/2009 7:15	0.198	0.198	0.079	9.8	*46*	10.2	8.5		
11/24/2009 7:30	0.198	0.198	0.079	9.8	*44*	10.3	8.5		
11/24/2009 7:45	0.205	0.205	0.086	9.8	*46*	10.3	8.5		
11/24/2009 8:00	0.207	0.207	0.088	9.8	*44*	10.3	8.5		
11/24/2009 8:15	0.206	0.206	0.087	9.8	*46*	10.3	8.5		
11/24/2009 8:30	0.206	0.206	0.087	9.8	*44*	10.3	8.5		
11/24/2009 8:45	0.206	0.206	0.087	9.8	*44*	10.3	8.5		
11/24/2009 9:00	0.205	0.205	0.086	9.8	*44*	10.3	8.5		
11/24/2009 9:15	0.205	0.205	0.086	9.9	*46*	10.3	8.6		
11/24/2009 9:30	0.205	0.205	0.086	9.9	*44*	10.4	8.6		
11/24/2009 9:45	0.205	0.205	0.086	10	*44*	10.4	8.6		
11/24/2009 10:00	0.206	0.206	0.087	10	*44*	10.4	8.6		
11/24/2009 10:15	0.205	0.205	0.086	10.1	*44*	10.3	8.6		
11/24/2009 10:30	0.204	0.204	0.085	10.1	*46*	10.4	8.6		
11/24/2009 10:45	0.204	0.204	0.085	10.2	*46*	10.3	8.6		
11/24/2009 11:00	0.204	0.204	0.085	10.3	*44*	10.4	8.6		
11/24/2009 11:15	0.204	0.204	0.085	10.3	*44*	10.3	8.6		
11/24/2009 11:30	0.205	0.205	0.086	10.5	*44*	10.3	8.6		
11/24/2009 11:45	0.205	0.205	0.086	10.6	*42*	10.3	8.7		
11/24/2009 12:00	0.206	0.206	0.087	10.7	*42*	10.3	8.7		
11/24/2009 12:15	0.202	0.202	0.083	10.8	*42*	10.3	8.7		
11/24/2009 12:30	0.205	0.205	0.086	10.9	*42*	10.2	8.7		
11/24/2009 12:45	0.204	0.204	0.085	11	*42*	10.2	8.7		
11/24/2009 13:00	0.204	0.204	0.085	11.1	*44*	10.2	8.7		
11/24/2009 13:15	0.205	0.205	0.086	11.1	*44*	10.2	8.7		
11/24/2009 13:30	0.204	0.204	0.085	11.1	*42*	10.1	8.7		
11/24/2009 13:45	0.203	0.203	0.084	11.1	*42*	10.1	8.7		
11/24/2009 14:00	0.201	0.201	0.082	11.1	*42*	10.1	8.7		13:57
11/24/2009 14:15	0.203	0.203	0.084	11.1	*42*	10.1	8.7		
11/24/2009 14:30	0.202	0.202	0.083	11.1	*42*	10.1	8.7		
11/24/2009 14:45	0.203	0.203	0.084	11.1	*42*	10.1	8.7		
11/24/2009 15:00	0.203	0.203	0.084	11.1	*44*	10.1	8.7		
11/24/2009 15:15	0.206	0.206	0.087	11.1	*44*	10	8.7		
11/24/2009 15:30	0.206	0.206	0.087	11.1	*44*	10	8.7		
11/24/2009 15:45	0.208	0.208	0.089	11.1	*44*	10	8.7		
11/24/2009 16:00	0.208	0.208	0.089	11.1	*44*	10	8.7		
11/24/2009 16:15	0.208	0.208	0.089	11.1	*44*	10	8.7		
11/24/2009 16:30	0.206	0.206	0.087	11.1	*44*	10	8.7		
11/24/2009 16:45	0.207	0.207	0.088	11	*42*	10	8.6		
11/24/2009 17:00	0.206	0.206	0.087	11	*42*	10	8.6		
11/24/2009 17:15	0.207	0.207	0.088	11	*48*	10	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/24/2009 17:30	0.208	0.208	0.089	10.9	*48*	9.9	8.6		
11/24/2009 17:45	0.207	0.207	0.088	10.9	*48*	9.9	8.6		
11/24/2009 18:00	0.207	0.207	0.088	10.8	*48*	10	8.6		
11/24/2009 18:15	0.208	0.208	0.089	10.8	*50*	9.9	8.6		
11/24/2009 18:30	0.208	0.208	0.089	10.7	*46*	10	8.6		
11/24/2009 18:45	0.208	0.208	0.089	10.6	*46*	10	8.6		
11/24/2009 19:00	0.208	0.208	0.089	10.5	*46*	10	8.6		
11/24/2009 19:15	0.207	0.207	0.088	10.4	*46*	10	8.6		
11/24/2009 19:30	0.208	0.208	0.089	10.4	*46*	10	8.6		
11/24/2009 19:45	0.207	0.207	0.088	10.3	*46*	10	8.6		
11/24/2009 20:00	0.207	0.207	0.088	10.2	*46*	10	8.6		
11/24/2009 20:15	0.208	0.208	0.089	10.2	*46*	10.1	8.6		
11/24/2009 20:30	0.207	0.207	0.088	10.1	*46*	10.1	8.6		
11/24/2009 20:45	0.206	0.206	0.087	10	*46*	10.1	8.6		
11/24/2009 21:00	0.208	0.208	0.089	10	*46*	10.1	8.6		
11/24/2009 21:15	0.207	0.207	0.088	9.9	*46*	10.2	8.6		
11/24/2009 21:30	0.206	0.206	0.087	9.8	*46*	10.1	8.6		
11/24/2009 21:45	0.206	0.206	0.087	9.8	*46*	10.1	8.6		
11/24/2009 22:00	0.207	0.207	0.088	9.7	*46*	10.2	8.6		
11/24/2009 22:15	0.206	0.206	0.087	9.7	*46*	10.2	8.6		
11/24/2009 22:30	0.207	0.207	0.088	9.6	*46*	10.2	8.6		
11/24/2009 22:45	0.206	0.206	0.087	9.6	*46*	10.2	8.6		
11/24/2009 23:00	0.207	0.207	0.088	9.6	*44*	10.2	8.6		
11/24/2009 23:15	0.206	0.206	0.087	9.6	*44*	10.2	8.6		
11/24/2009 23:30	0.207	0.207	0.088	9.6	*44*	10.2	8.6		
11/24/2009 23:45	0.208	0.208	0.089	9.6	*44*	10.2	8.6		
11/25/2009 0:00	0.207	0.207	0.088	9.7	*44*	10.2	8.6		
11/25/2009 0:15	0.2	0.2	0.081	9.7	*44*	10.2	8.6		
11/25/2009 0:30	0.199	0.199	0.080	9.7	*44*	10.2	8.6		
11/25/2009 0:45	0.197	0.197	0.078	9.7	*44*	10.2	8.6		
11/25/2009 1:00	0.199	0.199	0.080	9.7	*44*	10.2	8.6		
11/25/2009 1:15	0.198	0.198	0.079	9.7	*44*	10.2	8.6		
11/25/2009 1:30	0.198	0.198	0.079	9.7	*44*	10.2	8.6		
11/25/2009 1:45	0.199	0.199	0.080	9.7	*44*	10.2	8.6		
11/25/2009 2:00	0.199	0.199	0.080	9.7	*44*	10.2	8.6		
11/25/2009 2:15	0.199	0.199	0.080	9.7	*44*	10.2	8.6		
11/25/2009 2:30	0.198	0.198	0.079	9.7	*44*	10.2	8.6		
11/25/2009 2:45	0.197	0.197	0.078	9.7	*44*	10.2	8.6		
11/25/2009 3:00	0.197	0.197	0.078	9.7	*44*	10.2	8.6		
11/25/2009 3:15	0.197	0.197	0.078	9.7	*44*	10.2	8.6		
11/25/2009 3:30	0.197	0.197	0.078	9.7	*44*	10.1	8.6		
11/25/2009 3:45	0.196	0.196	0.077	9.7	*44*	10.2	8.6		
11/25/2009 4:00	0.197	0.197	0.078	9.7	*44*	10.2	8.6		
11/25/2009 4:15	0.198	0.198	0.079	9.7	*42*	10.2	8.6		
11/25/2009 4:30	0.2	0.2	0.081	9.7	*50*	10.2	8.6		
11/25/2009 4:45	0.208	0.208	0.089	9.7	*50*	10.2	8.6		
11/25/2009 5:00	0.21	0.21	0.091	9.7	*48*	10.2	8.6		
11/25/2009 5:15	0.21	0.21	0.091	9.7	*48*	10.1	8.6		
11/25/2009 5:30	0.208	0.208	0.089	9.7	*48*	10.1	8.6		
11/25/2009 5:45	0.209	0.209	0.090	9.7	*48*	10.1	8.6		
11/25/2009 6:00	0.208	0.208	0.089	9.7	*48*	10.1	8.6		
11/25/2009 6:15	0.209	0.209	0.090	9.7	*48*	10.2	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/25/2009 6:30	0.208	0.208	0.089	9.7	*48*	10.1	8.6		
11/25/2009 6:45	0.21	0.21	0.091	9.7	*48*	10.2	8.6		
11/25/2009 7:00	0.21	0.21	0.091	9.7	*48*	10.1	8.6		
11/25/2009 7:15	0.209	0.209	0.090	9.7	*48*	10.1	8.6		
11/25/2009 7:30	0.21	0.21	0.091	9.7	*48*	10.1	8.6		
11/25/2009 7:45	0.208	0.208	0.089	9.7	*48*	10.2	8.6		
11/25/2009 8:00	0.209	0.209	0.090	9.7	*48*	10.2	8.6		
11/25/2009 8:15	0.209	0.209	0.090	9.7	*48*	10.2	8.6		
11/25/2009 8:30	0.208	0.208	0.089	9.7	*48*	10.2	8.6		
11/25/2009 8:45	0.208	0.208	0.089	9.7	*46*	10.2	8.6		
11/25/2009 9:00	0.208	0.208	0.089	9.8	*48*	10.2	8.6		
11/25/2009 9:15	0.209	0.209	0.090	9.8	*46*	10.3	8.6		
11/25/2009 9:30	0.209	0.209	0.090	9.8	*46*	10.3	8.6		
11/25/2009 9:45	0.208	0.208	0.089	9.9	*46*	10.3	8.6		
11/25/2009 10:00	0.207	0.207	0.088	10	*46*	10.3	8.6		
11/25/2009 10:15	0.208	0.208	0.089	10.2	*46*	10.3	8.7		
11/25/2009 10:30	0.208	0.208	0.089	10.3	*46*	10.3	8.7		
11/25/2009 10:45	0.208	0.208	0.089	10.4	*46*	10.3	8.7		
11/25/2009 11:00	0.208	0.208	0.089	10.5	*46*	10.3	8.7		
11/25/2009 11:15	0.208	0.208	0.089	10.5	*46*	10.2	8.7		
11/25/2009 11:30	0.208	0.208	0.089	10.5	*46*	10.3	8.7		
11/25/2009 11:45	0.206	0.206	0.087	10.6	*46*	10.2	8.7		
11/25/2009 12:00	0.206	0.206	0.087	10.6	*46*	10.2	8.7		
11/25/2009 12:15	0.208	0.208	0.089	10.6	*48*	10.2	8.7		
11/25/2009 12:30	0.207	0.207	0.088	10.6	*46*	10.2	8.7		
11/25/2009 12:45	0.207	0.207	0.088	10.6	*46*	10.2	8.7		
11/25/2009 13:00	0.208	0.208	0.089	10.6	*46*	10.2	8.7		
11/25/2009 13:15	0.207	0.207	0.088	10.6	*46*	10.1	8.7		
11/25/2009 13:30	0.208	0.208	0.089	10.6	*46*	10.2	8.7		
11/25/2009 13:45	0.206	0.206	0.087	10.6	*46*	10.1	8.7		
11/25/2009 14:00	0.207	0.207	0.088	10.5	*46*	10.1	8.7		13:57
11/25/2009 14:15	0.208	0.208	0.089	10.5	*46*	10.1	8.7		
11/25/2009 14:30	0.207	0.207	0.088	10.5	*48*	10.1	8.7		
11/25/2009 14:45	0.207	0.207	0.088	10.5	*46*	10.1	8.7		
11/25/2009 15:00	0.207	0.207	0.088	10.5	*46*	10.1	8.7		
11/25/2009 15:15	0.206	0.206	0.087	10.5	*46*	10	8.7		
11/25/2009 15:30	0.207	0.207	0.088	10.5	*46*	10	8.7		
11/25/2009 15:45	0.207	0.207	0.088	10.5	*46*	10	8.7		
11/25/2009 16:00	0.207	0.207	0.088	10.5	*46*	10	8.7		
11/25/2009 16:15	0.207	0.207	0.088	10.5	*46*	10	8.7		
11/25/2009 16:30	0.208	0.208	0.089	10.5	*46*	10	8.7		
11/25/2009 16:45	0.208	0.208	0.089	10.4	*46*	10	8.6		
11/25/2009 17:00	0.207	0.207	0.088	10.4	*46*	10	8.6		
11/25/2009 17:15	0.206	0.206	0.087	10.3	*50*	10	8.6		
11/25/2009 17:30	0.207	0.207	0.088	10.2	*46*	10	8.6		
11/25/2009 17:45	0.207	0.207	0.088	10.1	*48*	10	8.6		
11/25/2009 18:00	0.207	0.207	0.088	10	*48*	10	8.6		
11/25/2009 18:15	0.206	0.206	0.087	9.9	*46*	10	8.6		
11/25/2009 18:30	0.206	0.206	0.087	9.8	*46*	10	8.6		
11/25/2009 18:45	0.206	0.206	0.087	9.7	*48*	10.1	8.6		
11/25/2009 19:00	0.206	0.206	0.087	9.6	*48*	10.1	8.6		
11/25/2009 19:15	0.207	0.207	0.088	9.5	*48*	10.1	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/25/2009 19:30	0.206	0.206	0.087	9.4	*48*	10.2	8.6		
11/25/2009 19:45	0.206	0.206	0.087	9.3	*48*	10.2	8.6		
11/25/2009 20:00	0.206	0.206	0.087	9.2	*48*	10.2	8.6		
11/25/2009 20:15	0.207	0.207	0.088	9.1	*48*	10.2	8.6		
11/25/2009 20:30	0.205	0.205	0.086	9	*48*	10.2	8.6		
11/25/2009 20:45	0.205	0.205	0.086	8.9	*48*	10.3	8.6		
11/25/2009 21:00	0.207	0.207	0.088	8.8	*48*	10.3	8.6		
11/25/2009 21:15	0.207	0.207	0.088	8.7	*48*	10.3	8.6		
11/25/2009 21:30	0.206	0.206	0.087	8.6	*48*	10.3	8.6		
11/25/2009 21:45	0.206	0.206	0.087	8.5	*48*	10.4	8.6		
11/25/2009 22:00	0.206	0.206	0.087	8.4	*48*	10.4	8.6		
11/25/2009 22:15	0.206	0.206	0.087	8.3	*48*	10.4	8.6		
11/25/2009 22:30	0.206	0.206	0.087	8.2	*48*	10.4	8.6		
11/25/2009 22:45	0.206	0.206	0.087	8.2	*48*	10.4	8.6		
11/25/2009 23:00	0.206	0.206	0.087	8.1	*48*	10.5	8.6		
11/25/2009 23:15	0.206	0.206	0.087	8	*48*	10.5	8.6		
11/25/2009 23:30	0.206	0.206	0.087	7.9	*48*	10.5	8.6		
11/25/2009 23:45	0.206	0.206	0.087	7.8	*48*	10.5	8.6		
11/26/2009 0:00	0.206	0.206	0.087	7.8	*48*	10.5	8.6		
11/26/2009 0:15	0.206	0.206	0.087	7.7	*48*	10.6	8.6		
11/26/2009 0:30	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 0:45	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 1:00	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 1:15	0.207	0.207	0.088	7.6	*48*	10.6	8.6		
11/26/2009 1:30	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 1:45	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 2:00	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 2:15	0.206	0.206	0.087	7.6	*48*	10.6	8.6		
11/26/2009 2:30	0.207	0.207	0.088	7.5	*48*	10.6	8.6		
11/26/2009 2:45	0.206	0.206	0.087	7.5	*50*	10.6	8.6		
11/26/2009 3:00	0.205	0.205	0.086	7.4	*48*	10.6	8.6		
11/26/2009 3:15	0.206	0.206	0.087	7.4	*48*	10.6	8.6		
11/26/2009 3:30	0.206	0.206	0.087	7.3	*50*	10.6	8.6		
11/26/2009 3:45	0.205	0.205	0.086	7.3	*48*	10.6	8.6		
11/26/2009 4:00	0.205	0.205	0.086	7.2	*48*	10.6	8.6		
11/26/2009 4:15	0.205	0.205	0.086	7.2	*48*	10.7	8.6		
11/26/2009 4:30	0.204	0.204	0.085	7.1	*48*	10.7	8.6		
11/26/2009 4:45	0.206	0.206	0.087	7.1	*48*	10.7	8.6		
11/26/2009 5:00	0.206	0.206	0.087	7	*50*	10.7	8.6		
11/26/2009 5:15	0.204	0.204	0.085	7	*48*	10.7	8.6		
11/26/2009 5:30	0.205	0.205	0.086	6.9	*50*	10.7	8.6		
11/26/2009 5:45	0.206	0.206	0.087	6.9	*50*	10.7	8.6		
11/26/2009 6:00	0.206	0.206	0.087	6.8	*50*	10.8	8.6		
11/26/2009 6:15	0.204	0.204	0.085	6.8	*50*	10.7	8.6		
11/26/2009 6:30	0.204	0.204	0.085	6.7	*50*	10.7	8.6		
11/26/2009 6:45	0.204	0.204	0.085	6.7	*50*	10.8	8.6		
11/26/2009 7:00	0.204	0.204	0.085	6.6	*50*	10.8	8.6		
11/26/2009 7:15	0.205	0.205	0.086	6.6	*50*	10.8	8.6		
11/26/2009 7:30	0.204	0.204	0.085	6.5	*48*	10.8	8.6		
11/26/2009 7:45	0.205	0.205	0.086	6.5	*48*	10.8	8.6		
11/26/2009 8:00	0.205	0.205	0.086	6.4	*48*	10.9	8.6		
11/26/2009 8:15	0.204	0.204	0.085	6.4	*48*	10.9	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/26/2009 8:30	0.205	0.205	0.086	6.4	*48*	10.9	8.6		
11/26/2009 8:45	0.205	0.205	0.086	6.4	*48*	10.9	8.6		
11/26/2009 9:00	0.203	0.203	0.084	6.5	*48*	11	8.6		
11/26/2009 9:15	0.204	0.204	0.085	6.5	*48*	11	8.6		
11/26/2009 9:30	0.203	0.203	0.084	6.6	*48*	11	8.6		
11/26/2009 9:45	0.203	0.203	0.084	6.6	*48*	10.9	8.6		
11/26/2009 10:00	0.203	0.203	0.084	6.7	*48*	10.9	8.6		
11/26/2009 10:15	0.205	0.205	0.086	6.8	*48*	10.9	8.6		
11/26/2009 10:30	0.204	0.204	0.085	6.8	*48*	11	8.6		
11/26/2009 10:45	0.203	0.203	0.084	6.8	*48*	10.9	8.6		
11/26/2009 11:00	0.203	0.203	0.084	6.9	*48*	10.9	8.7		
11/26/2009 11:15	0.204	0.204	0.085	6.9	*48*	10.9	8.7		
11/26/2009 11:30	0.203	0.203	0.084	7	*48*	10.9	8.7		
11/26/2009 11:45	0.202	0.202	0.083	7.1	*48*	10.9	8.7		
11/26/2009 12:00	0.203	0.203	0.084	7.2	*48*	10.9	8.7		
11/26/2009 12:15	0.204	0.204	0.085	7.3	*48*	10.8	8.7		
11/26/2009 12:30	0.204	0.204	0.085	7.5	*48*	10.8	8.7		
11/26/2009 12:45	0.203	0.203	0.084	7.6	*48*	10.7	8.7		
11/26/2009 13:00	0.203	0.203	0.084	7.8	*48*	10.7	8.7		
11/26/2009 13:15	0.203	0.203	0.084	7.7	*48*	10.7	8.7		
11/26/2009 13:30	0.203	0.203	0.084	7.8	*48*	10.7	8.7		
11/26/2009 13:45	0.203	0.203	0.084	7.8	*48*	10.7	8.7		
11/26/2009 14:00	0.203	0.203	0.084	7.8	*48*	10.7	8.7		13:57
11/26/2009 14:15	0.203	0.203	0.084	7.9	*48*	10.7	8.7		
11/26/2009 14:30	0.203	0.203	0.084	7.9	*48*	10.6	8.7		
11/26/2009 14:45	0.201	0.201	0.082	7.9	*48*	10.6	8.7		
11/26/2009 15:00	0.203	0.203	0.084	7.9	*48*	10.6	8.7		
11/26/2009 15:15	0.203	0.203	0.084	7.9	*48*	10.6	8.7		
11/26/2009 15:30	0.202	0.202	0.083	7.8	*48*	10.5	8.7		
11/26/2009 15:45	0.201	0.201	0.082	7.8	*48*	10.6	8.7		
11/26/2009 16:00	0.203	0.203	0.084	7.8	*48*	10.6	8.7		
11/26/2009 16:15	0.202	0.202	0.083	7.7	*48*	10.6	8.7		
11/26/2009 16:30	0.201	0.201	0.082	7.7	*48*	10.6	8.7		
11/26/2009 16:45	0.2	0.2	0.081	7.6	*48*	10.6	8.7		
11/26/2009 17:00	0.202	0.202	0.083	7.5	*48*	10.6	8.7		
11/26/2009 17:15	0.202	0.202	0.083	7.5	*48*	10.6	8.6		
11/26/2009 17:30	0.201	0.201	0.082	7.4	*48*	10.6	8.6		
11/26/2009 17:45	0.201	0.201	0.082	7.4	*48*	10.6	8.6		
11/26/2009 18:00	0.201	0.201	0.082	7.3	*48*	10.6	8.6		
11/26/2009 18:15	0.199	0.199	0.080	7.2	*48*	10.6	8.6		
11/26/2009 18:30	0.199	0.199	0.080	7.2	*48*	10.6	8.6		
11/26/2009 18:45	0.2	0.2	0.081	7.1	*48*	10.6	8.6		
11/26/2009 19:00	0.202	0.202	0.083	7.1	*48*	10.7	8.6		
11/26/2009 19:15	0.202	0.202	0.083	7	*48*	10.6	8.6		
11/26/2009 19:30	0.203	0.203	0.084	7	*48*	10.7	8.6		
11/26/2009 19:45	0.203	0.203	0.084	7	*48*	10.7	8.6		
11/26/2009 20:00	0.202	0.202	0.083	6.9	*48*	10.7	8.6		
11/26/2009 20:15	0.202	0.202	0.083	6.9	*48*	10.7	8.6		
11/26/2009 20:30	0.203	0.203	0.084	6.8	*48*	10.7	8.6		
11/26/2009 20:45	0.203	0.203	0.084	6.8	*48*	10.7	8.6		
11/26/2009 21:00	0.202	0.202	0.083	6.8	*48*	10.8	8.6		
11/26/2009 21:15	0.202	0.202	0.083	6.7	*48*	10.7	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/26/2009 21:30	0.201	0.201	0.082	6.7	*48*	10.7	8.6		
11/26/2009 21:45	0.202	0.202	0.083	6.7	*48*	10.7	8.6		
11/26/2009 22:00	0.201	0.201	0.082	6.6	*48*	10.7	8.6		
11/26/2009 22:15	0.202	0.202	0.083	6.6	*48*	10.8	8.6		
11/26/2009 22:30	0.2	0.2	0.081	6.6	*48*	10.8	8.6		
11/26/2009 22:45	0.201	0.201	0.082	6.6	*48*	10.8	8.6		
11/26/2009 23:00	0.201	0.201	0.082	6.6	*50*	10.8	8.6		
11/26/2009 23:15	0.201	0.201	0.082	6.5	*50*	10.8	8.6		
11/26/2009 23:30	0.201	0.201	0.082	6.5	*50*	10.8	8.6		
11/26/2009 23:45	0.2	0.2	0.081	6.5	*50*	10.8	8.6		
11/27/2009 0:00	0.2	0.2	0.081	6.5	*50*	10.8	8.6		
11/27/2009 0:15	0.2	0.2	0.081	6.4	*50*	10.8	8.6		
11/27/2009 0:30	0.2	0.2	0.081	6.4	*50*	10.8	8.6		
11/27/2009 0:45	0.2	0.2	0.081	6.4	*50*	10.8	8.6		
11/27/2009 1:00	0.2	0.2	0.081	6.4	*50*	10.8	8.6		
11/27/2009 1:15	0.201	0.201	0.082	6.3	*50*	10.8	8.6		
11/27/2009 1:30	0.201	0.201	0.082	6.3	*50*	10.8	8.6		
11/27/2009 1:45	0.2	0.2	0.081	6.3	*50*	10.8	8.6		
11/27/2009 2:00	0.2	0.2	0.081	6.3	*50*	10.9	8.6		
11/27/2009 2:15	0.2	0.2	0.081	6.2	*50*	10.8	8.6		
11/27/2009 2:30	0.202	0.202	0.083	6.2	*52*	10.9	8.6		
11/27/2009 2:45	0.202	0.202	0.083	6.2	*52*	10.8	8.6		
11/27/2009 3:00	0.202	0.202	0.083	6.2	*50*	10.8	8.6		
11/27/2009 3:15	0.201	0.201	0.082	6.1	*50*	10.9	8.6		
11/27/2009 3:30	0.203	0.203	0.084	6.1	*50*	10.9	8.6		
11/27/2009 3:45	0.201	0.201	0.082	6.1	*50*	10.9	8.6		
11/27/2009 4:00	0.201	0.201	0.082	6.1	*50*	10.9	8.6		
11/27/2009 4:15	0.202	0.202	0.083	6	*50*	10.9	8.6		
11/27/2009 4:30	0.203	0.203	0.084	6	*50*	10.9	8.6		
11/27/2009 4:45	0.202	0.202	0.083	6	*50*	10.9	8.6		
11/27/2009 5:00	0.202	0.202	0.083	5.9	*50*	10.9	8.6		
11/27/2009 5:15	0.202	0.202	0.083	5.9	*50*	10.9	8.6		
11/27/2009 5:30	0.2	0.2	0.081	5.9	*50*	10.9	8.6		
11/27/2009 5:45	0.201	0.201	0.082	5.9	*50*	10.9	8.6		
11/27/2009 6:00	0.201	0.201	0.082	5.8	*50*	10.9	8.6		
11/27/2009 6:15	0.201	0.201	0.082	5.8	*50*	11	8.6		
11/27/2009 6:30	0.203	0.203	0.084	5.8	*50*	10.9	8.6		
11/27/2009 6:45	0.201	0.201	0.082	5.8	*50*	10.9	8.6		
11/27/2009 7:00	0.202	0.202	0.083	5.7	*52*	11	8.6		
11/27/2009 7:15	0.202	0.202	0.083	5.7	*50*	10.9	8.6		
11/27/2009 7:30	0.201	0.201	0.082	5.7	*50*	11	8.6		
11/27/2009 7:45	0.201	0.201	0.082	5.7	*50*	11	8.6		
11/27/2009 8:00	0.2	0.2	0.081	5.6	*56*	11	8.6		
11/27/2009 8:15	0.2	0.2	0.081	5.6	*56*	11.1	8.6		
11/27/2009 8:30	0.201	0.201	0.082	5.6	*56*	11	8.6		
11/27/2009 8:45	0.201	0.201	0.082	5.6	*58*	11.1	8.6		
11/27/2009 9:00	0.201	0.201	0.082	5.6	*58*	11.1	8.6		
11/27/2009 9:15	0.201	0.201	0.082	5.7	*58*	11.1	8.6		
11/27/2009 9:30	0.201	0.201	0.082	5.8	*58*	11.1	8.6		
11/27/2009 9:45	0.201	0.201	0.082	5.8	*58*	11.1	8.6		
11/27/2009 10:00	0.2	0.2	0.081	5.8	*58*	11.1	8.7		
11/27/2009 10:15	0.201	0.201	0.082	5.8	*58*	11.1	8.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/27/2009 10:30	0.2	0.2	0.081	5.8	*58*	11.1	8.7		
11/27/2009 10:45	0.2	0.2	0.081	5.8	*58*	11.1	8.7		
11/27/2009 11:00	0.2	0.2	0.081	5.8	*60*	11.1	8.7		
11/27/2009 11:15	0.201	0.201	0.082	5.9	*62*	11.1	8.7		
11/27/2009 11:30	0.201	0.201	0.082	6	*62*	11.1	8.7		
11/27/2009 11:45	0.201	0.201	0.082	6	*60*	11.1	8.7		
11/27/2009 12:00	0.201	0.201	0.082	6.1	*60*	11.1	8.7		
11/27/2009 12:15	0.202	0.202	0.083	6.2	*64*	11.1	8.7		
11/27/2009 12:30	0.201	0.201	0.082	6.2	*62*	11	8.7		
11/27/2009 12:45	0.202	0.202	0.083	6.3	*62*	11	8.7		
11/27/2009 13:00	0.203	0.203	0.084	6.4	*60*	11	8.7		
11/27/2009 13:15	0.199	0.199	0.080	6.4	*74*	11	8.7		
11/27/2009 13:30	0.201	0.201	0.082	6.5	*72*	11	8.7		
11/27/2009 13:45	0.201	0.201	0.082	6.5	*66*	10.9	8.7		
11/27/2009 14:00	0.201	0.201	0.082	6.6	*66*	10.9	8.7		
11/27/2009 14:15	0.201	0.201	0.082	6.6	*66*	10.9	8.7		
11/27/2009 14:30	0.201	0.201	0.082	6.6	*64*	10.8	8.7		
11/27/2009 14:45	0.201	0.201	0.082	6.6	*70*	10.8	8.7		
11/27/2009 15:00	0.201	0.201	0.082	6.7	*66*	10.8	8.7		
11/27/2009 15:15	0.201	0.201	0.082	6.7	*64*	10.8	8.7		
11/27/2009 15:30	0.2	0.2	0.081	6.7	*62*	10.8	8.7		
11/27/2009 15:45	0.201	0.201	0.082	6.7	*62*	10.7	8.7		
11/27/2009 16:00	0.201	0.201	0.082	6.8	*66*	10.8	8.7		
11/27/2009 16:15	0.201	0.201	0.082	6.7	*64*	10.7	8.7		
11/27/2009 16:30	0.201	0.201	0.082	6.7	*66*	10.7	8.7		
11/27/2009 16:45	0.201	0.201	0.082	6.7	*70*	10.7	8.7		
11/27/2009 17:00	0.201	0.201	0.082	6.6	*70*	10.8	8.7		
11/27/2009 17:15	0.2	0.2	0.081	6.6	*62*	10.7	8.6		
11/27/2009 17:30	0.201	0.201	0.082	6.5	*66*	10.7	8.6		
11/27/2009 17:45	0.2	0.2	0.081	6.5	*70*	10.7	8.6		
11/27/2009 18:00	0.201	0.201	0.082	6.4	*66*	10.8	8.6		
11/27/2009 18:15	0.199	0.199	0.080	6.3	*64*	10.8	8.6		
11/27/2009 18:30	0.201	0.201	0.082	6.3	*72*	10.8	8.6		
11/27/2009 18:45	0.2	0.2	0.081	6.2	*64*	10.8	8.6		
11/27/2009 19:00	0.2	0.2	0.081	6.1	*72*	10.8	8.6		
11/27/2009 19:15	0.199	0.199	0.080	6	*70*	10.8	8.6		
11/27/2009 19:30	0.2	0.2	0.081	5.9	*66*	10.9	8.6		
11/27/2009 19:45	0.201	0.201	0.082	5.9	*68*	10.9	8.6		
11/27/2009 20:00	0.198	0.198	0.079	5.8	*66*	10.9	8.6		
11/27/2009 20:15	0.2	0.2	0.081	5.7	*64*	10.9	8.6		
11/27/2009 20:30	0.2	0.2	0.081	5.6	*64*	11	8.6		
11/27/2009 20:45	0.2	0.2	0.081	5.6	*68*	11	8.6		
11/27/2009 21:00	0.201	0.201	0.082	5.5	*78*	11	8.6		
11/27/2009 21:15	0.201	0.201	0.082	5.4	*64*	11	8.6		
11/27/2009 21:30	0.2	0.2	0.081	5.3	*64*	11	8.6		
11/27/2009 21:45	0.199	0.199	0.080	5.3	*84*	11	8.6		
11/27/2009 22:00	0.2	0.2	0.081	5.2	*66*	11.1	8.6		
11/27/2009 22:15	0.2	0.2	0.081	5.1	*70*	11	8.6		
11/27/2009 22:30	0.199	0.199	0.080	5.1	*72*	11.1	8.6		
11/27/2009 22:45	0.2	0.2	0.081	5	*100*	11.1	8.6		
11/27/2009 23:00	0.199	0.199	0.080	5	*66*	11.1	8.6		
11/27/2009 23:15	0.199	0.199	0.080	4.9	*66*	11.1	8.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/27/2009 23:30	0.198	0.198	0.079	4.8	*66*	11.2	8.6		
11/27/2009 23:45	0.2	0.2	0.081	4.8	*68*	11.1	8.6		
11/28/2009 0:00	0.199	0.199	0.080	4.7	*76*	11.2	8.6		
11/28/2009 0:15	0.199	0.199	0.080	4.7	*72*	11.2	8.6		
11/28/2009 0:30	0.199	0.199	0.080	4.6	*70*	11.2	8.6		
11/28/2009 0:45	0.199	0.199	0.080	4.6	*68*	11.2	8.6		
11/28/2009 1:00	0.199	0.199	0.080	4.5	*72*	11.2	8.6		
11/28/2009 1:15	0.198	0.198	0.079	4.5	*70*	11.2	8.6		
11/28/2009 1:30	0.199	0.199	0.080	4.4	*74*	11.2	8.6		
11/28/2009 1:45	0.2	0.2	0.081	4.4	*66*	11.2	8.6		
11/28/2009 2:00	0.199	0.199	0.080	4.3	*74*	11.3	8.6		
11/28/2009 2:15	0.199	0.199	0.080	4.3	*68*	11.2	8.6		
11/28/2009 2:30	0.199	0.199	0.080	4.2	*70*	11.3	8.6		
11/28/2009 2:45	0.198	0.198	0.079	4.2	*68*	11.3	8.6		
11/28/2009 3:00	0.198	0.198	0.079	4.2	*70*	11.3	8.6		
11/28/2009 3:15	0.198	0.198	0.079	4.1	*66*	11.3	8.6		
11/28/2009 3:30	0.199	0.199	0.080	4.1	*72*	11.3	8.6		
11/28/2009 3:45	0.199	0.199	0.080	4	*66*	11.3	8.6		
11/28/2009 4:00	0.198	0.198	0.079	4	*70*	11.3	8.6		
11/28/2009 4:15	0.199	0.199	0.080	4	*68*	11.4	8.6		
11/28/2009 4:30	0.199	0.199	0.080	3.9	*68*	11.3	8.6		
11/28/2009 4:45	0.198	0.198	0.079	3.9	*64*	11.4	8.6		
11/28/2009 5:00	0.199	0.199	0.080	3.8	*96*	11.3	8.6		
11/28/2009 5:15	0.199	0.199	0.080	3.8	*74*	11.3	8.6		
11/28/2009 5:30	0.199	0.199	0.080	3.8	*82*	11.4	8.6		
11/28/2009 5:45	0.199	0.199	0.080	3.7	*92*	11.4	8.6		
11/28/2009 6:00	0.198	0.198	0.079	3.7	*90*	11.4	8.6		
11/28/2009 6:15	0.198	0.198	0.079	3.6	*72*	11.4	8.6		
11/28/2009 6:30	0.197	0.197	0.078	3.6	*68*	11.4	8.6		
11/28/2009 6:45	0.198	0.198	0.079	3.6	*84*	11.4	8.6		
11/28/2009 7:00	0.197	0.197	0.078	3.5	*84*	11.4	8.6		
11/28/2009 7:15	0.197	0.197	0.078	3.5	*70*	11.5	8.6		
11/28/2009 7:30	0.197	0.197	0.078	3.5	*68*	11.4	8.6		
11/28/2009 7:45	0.196	0.196	0.077	3.4	*68*	11.4	8.6		
11/28/2009 8:00	0.196	0.196	0.077	3.4	*68*	11.5	8.6		
11/28/2009 8:15	0.197	0.197	0.078	3.4	*70*	11.5	8.6		
11/28/2009 8:30	0.198	0.198	0.079	3.4	*68*	11.5	8.6		
11/28/2009 8:45	0.197	0.197	0.078	3.4	*70*	11.5	8.6		
11/28/2009 9:00	0.196	0.196	0.077	3.5	*74*	11.5	8.6		
11/28/2009 9:15	0.197	0.197	0.078	3.6	*72*	11.6	8.6		
11/28/2009 9:30	0.197	0.197	0.078	3.7	*76*	11.5	8.6		
11/28/2009 9:45	0.196	0.196	0.077	3.8	*72*	11.5	8.6		
11/28/2009 10:00	0.197	0.197	0.078	3.9	*74*	11.6	8.6		
11/28/2009 10:15	0.197	0.197	0.078	3.9	*70*	11.5	8.6		
11/28/2009 10:30	0.197	0.197	0.078	4	*66*	11.5	8.6		
11/28/2009 10:45	0.196	0.196	0.077	4.1	*74*	11.5	8.6		
11/28/2009 11:00	0.197	0.197	0.078	4.2	*74*	11.5	8.6		
11/28/2009 11:15	0.197	0.197	0.078	4.3	*70*	11.4	8.6		
11/28/2009 11:30	0.197	0.197	0.078	4.4	*68*	11.4	8.6		
11/28/2009 11:45	0.196	0.196	0.077	4.6	*68*	11.4	8.7		
11/28/2009 12:00	0.196	0.196	0.077	4.7	*114*	11.4	8.7		
11/28/2009 12:15	0.197	0.197	0.078	4.9	*66*	11.4	8.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/28/2009 12:30	0.195	0.195	0.077	5	*68*	11.3	8.7		
11/28/2009 12:45	0.197	0.197	0.078	5.2	*68*	11.3	8.7		
11/28/2009 13:00	0.197	0.197	0.078	5.3	*72*	11.2	8.7		
11/28/2009 13:15	0.1968	0.1968	0.078	5.4	*76*	11	8.7	* (34)	
11/28/2009 13:30	**0.2147**	**0.2147**	**0.096**					* (35)	
11/28/2009 13:45	**0.19095**	**0.19095**	**0.073**					* (36)	
11/28/2009 14:00	*0.1672*	*0.1672*	*0.055*	13.3	*434*	9.1	7.9	* (37)	
11/28/2009 14:15	0.2326	0.2326	0.119	6	494	11.4	7.9		
11/28/2009 14:30	0.24	0.24	0.129	6.1	494	11	7.9		
11/28/2009 14:45	0.2396	0.2396	0.129	6.2	492	10.8	7.9		14:42
11/28/2009 15:00	0.241	0.241	0.131	6.3	494	11.5	7.9		
11/28/2009 15:15	0.242	0.242	0.132	6.4	494	11.4	7.9		
11/28/2009 15:30	0.244	0.244	0.135	6.5	494	11.3	7.9		
11/28/2009 15:45	0.242	0.242	0.132	6.6	494	11.2	7.9		
11/28/2009 16:00	0.243	0.243	0.134	6.6	494	11.2	7.9		
11/28/2009 16:15	0.243	0.243	0.134	6.7	494	11.1	7.9		
11/28/2009 16:30	0.244	0.244	0.135	6.7	494	11.1	7.9		
11/28/2009 16:45	0.243	0.243	0.134	6.7	494	11	7.9		
11/28/2009 17:00	0.245	0.245	0.137	6.7	494	11	7.9		
11/28/2009 17:15	0.244	0.244	0.135	6.7	494	11	7.9		
11/28/2009 17:30	0.244	0.244	0.135	6.7	494	10.9	7.9		
11/28/2009 17:45	0.242	0.242	0.132	6.6	496	10.9	7.9		
11/28/2009 18:00	0.241	0.241	0.131	6.6	496	10.9	7.9		
11/28/2009 18:15	0.244	0.244	0.135	6.5	496	10.9	7.9		
11/28/2009 18:30	0.245	0.245	0.137	6.5	496	10.9	7.9		
11/28/2009 18:45	0.243	0.243	0.134	6.4	496	10.9	7.9		
11/28/2009 19:00	0.244	0.244	0.135	6.3	496	10.9	7.9		
11/28/2009 19:15	0.243	0.243	0.134	6.3	496	10.9	7.9		
11/28/2009 19:30	0.243	0.243	0.134	6.2	496	10.9	7.9		
11/28/2009 19:45	0.244	0.244	0.135	6.2	496	10.9	7.9		
11/28/2009 20:00	0.244	0.244	0.135	6.1	496	10.9	7.9		
11/28/2009 20:15	0.244	0.244	0.135	6.1	496	11	7.9		
11/28/2009 20:30	0.243	0.243	0.134	6	496	11	7.9		
11/28/2009 20:45	0.243	0.243	0.134	5.9	498	10.9	7.9		
11/28/2009 21:00	0.241	0.241	0.131	5.9	498	11	7.9		
11/28/2009 21:15	0.242	0.242	0.132	5.8	498	11	7.9		
11/28/2009 21:30	0.243	0.243	0.134	5.8	498	11	7.9		
11/28/2009 21:45	0.245	0.245	0.137	5.7	498	11	7.9		
11/28/2009 22:00	0.244	0.244	0.135	5.7	498	11	7.9		
11/28/2009 22:15	0.244	0.244	0.135	5.7	498	11	7.9		
11/28/2009 22:30	0.244	0.244	0.135	5.6	498	11	7.8		
11/28/2009 22:45	0.244	0.244	0.135	5.6	498	11	7.8		
11/28/2009 23:00	0.243	0.243	0.134	5.5	498	11	7.8		
11/28/2009 23:15	0.242	0.242	0.132	5.5	498	11	7.8		
11/28/2009 23:30	0.244	0.244	0.135	5.4	498	11.1	7.8		
11/28/2009 23:45	0.244	0.244	0.135	5.4	498	11	7.8		
11/29/2009 0:00	0.243	0.243	0.134	5.4	498	11	7.8		
11/29/2009 0:15	0.243	0.243	0.134	5.3	498	11.1	7.8		
11/29/2009 0:30	0.244	0.244	0.135	5.3	498	11.1	7.8		
11/29/2009 0:45	0.244	0.244	0.135	5.3	498	11.1	7.8		
11/29/2009 1:00	0.245	0.245	0.137	5.2	498	11.1	7.8		
11/29/2009 1:15	0.244	0.244	0.135	5.2	498	11.1	7.8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/29/2009 1:30	0.244	0.244	0.135	5.2	498	11.1	7.8		
11/29/2009 1:45	0.245	0.245	0.137	5.1	498	11.1	7.8		
11/29/2009 2:00	0.244	0.244	0.135	5.1	500	11.1	7.8		
11/29/2009 2:15	0.244	0.244	0.135	5.1	500	11.1	7.8		
11/29/2009 2:30	0.245	0.245	0.137	5	500	11.1	7.8		
11/29/2009 2:45	0.242	0.242	0.132	5	500	11.1	7.8		
11/29/2009 3:00	0.243	0.243	0.134	5	500	11.1	7.8		
11/29/2009 3:15	0.242	0.242	0.132	4.9	500	11.1	7.8		
11/29/2009 3:30	0.243	0.243	0.134	4.9	500	11.2	7.8		
11/29/2009 3:45	0.245	0.245	0.137	4.9	500	11.2	7.8		
11/29/2009 4:00	0.243	0.243	0.134	4.8	500	11.2	7.8		
11/29/2009 4:15	0.243	0.243	0.134	4.8	500	11.1	7.8		
11/29/2009 4:30	0.244	0.244	0.135	4.8	500	11.1	7.8		
11/29/2009 4:45	0.243	0.243	0.134	4.7	500	11.2	7.8		
11/29/2009 5:00	0.243	0.243	0.134	4.7	500	11.1	7.8		
11/29/2009 5:15	0.243	0.243	0.134	4.7	500	11.2	7.8		
11/29/2009 5:30	0.242	0.242	0.132	4.7	500	11.2	7.8		
11/29/2009 5:45	0.243	0.243	0.134	4.6	500	11.1	7.8		
11/29/2009 6:00	0.245	0.245	0.137	4.6	500	11.2	7.8		
11/29/2009 6:15	0.243	0.243	0.134	4.6	500	11.2	7.8		
11/29/2009 6:30	0.244	0.244	0.135	4.6	500	11.2	7.8		
11/29/2009 6:45	0.241	0.241	0.131	4.6	500	11.2	7.8		
11/29/2009 7:00	0.243	0.243	0.134	4.6	500	11.2	7.8		
11/29/2009 7:15	0.24	0.24	0.129	4.6	502	11.1	7.8		
11/29/2009 7:30	0.244	0.244	0.135	4.6	502	11.2	7.8		
11/29/2009 7:45	0.241	0.241	0.131	4.6	502	11.2	7.8		
11/29/2009 8:00	0.243	0.243	0.134	4.7	502	11.1	7.8		
11/29/2009 8:15	0.243	0.243	0.134	4.7	502	11.2	7.9		
11/29/2009 8:30	0.241	0.241	0.131	4.8	502	11.2	7.9		
11/29/2009 8:45	0.242	0.242	0.132	4.8	502	11.2	7.9		
11/29/2009 9:00	0.241	0.241	0.131	4.9	500	11.2	7.9		
11/29/2009 9:15	0.245	0.245	0.137	5	500	11.3	7.9		
11/29/2009 9:30	0.242	0.242	0.132	5.1	500	11.2	7.9		
11/29/2009 9:45	0.24	0.24	0.129	5.3	500	11.2	7.9		
11/29/2009 10:00	0.244	0.244	0.135	5.4	500	11.2	7.9		
11/29/2009 10:15	0.244	0.244	0.135	5.6	500	11.2	7.9		
11/29/2009 10:30	0.242	0.242	0.132	5.8	500	11.2	7.9		
11/29/2009 10:45	0.242	0.242	0.132	6	500	11.1	7.9		
11/29/2009 11:00	0.24	0.24	0.129	6.2	500	11.1	7.9		
11/29/2009 11:15	0.242	0.242	0.132	6.4	500	11	7.9		
11/29/2009 11:30	0.242	0.242	0.132	6.6	500	11	7.9		
11/29/2009 11:45	0.241	0.241	0.131	6.8	500	11	7.9		
11/29/2009 12:00	0.242	0.242	0.132	7	500	11	8		
11/29/2009 12:15	0.242	0.242	0.132	7.1	500	10.9	8		
11/29/2009 12:30	0.243	0.243	0.134	7.3	498	10.9	8		
11/29/2009 12:45	0.244	0.244	0.135	7.5	498	10.8	8		
11/29/2009 13:00	0.242	0.242	0.132	7.7	498	10.8	8		
11/29/2009 13:15	0.243	0.243	0.134	7.8	498	10.7	8		
11/29/2009 13:30	0.244	0.244	0.135	7.8	500	10.7	8		
11/29/2009 13:45	0.242	0.242	0.132	8	500	10.7	8		
11/29/2009 14:00	0.241	0.241	0.131	8.1	500	10.7	8		
11/29/2009 14:15	0.24	0.24	0.129	8.2	500	10.6	8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/29/2009 14:30	0.242	0.242	0.132	8.2	500	10.6	8		
11/29/2009 14:45	0.242	0.242	0.132	8.3	500	10.6	8		14:42
11/29/2009 15:00	0.243	0.243	0.134	8.4	500	10.5	8		
11/29/2009 15:15	0.239	0.239	0.128	8.4	500	10.5	8		
11/29/2009 15:30	0.245	0.245	0.137	8.5	500	10.4	8		
11/29/2009 15:45	0.242	0.242	0.132	8.5	500	10.4	8		
11/29/2009 16:00	0.243	0.243	0.134	8.6	500	10.4	8		
11/29/2009 16:15	0.242	0.242	0.132	8.6	500	10.4	8		
11/29/2009 16:30	0.243	0.243	0.134	8.6	500	10.3	8		
11/29/2009 16:45	0.242	0.242	0.132	8.6	500	10.3	8		
11/29/2009 17:00	0.245	0.245	0.137	8.5	500	10.3	7.9		
11/29/2009 17:15	0.244	0.244	0.135	8.5	500	10.3	7.9		
11/29/2009 17:30	0.246	0.246	0.139	8.5	500	10.2	7.9		
11/29/2009 17:45	0.243	0.243	0.134	8.4	500	10.3	7.9		
11/29/2009 18:00	0.243	0.243	0.134	8.4	502	10.2	7.9		
11/29/2009 18:15	0.247	0.247	0.140	8.3	502	10.3	7.9		
11/29/2009 18:30	0.245	0.245	0.137	8.3	502	10.2	7.9		
11/29/2009 18:45	0.244	0.244	0.135	8.3	502	10.3	7.9		
11/29/2009 19:00	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 19:15	0.245	0.245	0.137	8.3	502	10.3	7.9		
11/29/2009 19:30	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 19:45	0.246	0.246	0.139	8.2	502	10.3	7.9		
11/29/2009 20:00	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 20:15	0.247	0.247	0.140	8.3	502	10.2	7.9		
11/29/2009 20:30	0.245	0.245	0.137	8.3	502	10.3	7.9		
11/29/2009 20:45	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 21:00	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 21:15	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 21:30	0.245	0.245	0.137	8.3	502	10.2	7.9		
11/29/2009 21:45	0.247	0.247	0.140	8.3	502	10.2	7.9		
11/29/2009 22:00	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 22:15	0.246	0.246	0.139	8.3	502	10.2	7.9		
11/29/2009 22:30	0.249	0.249	0.143	8.3	502	10.2	7.9		
11/29/2009 22:45	0.247	0.247	0.140	8.3	502	10.2	7.9		
11/29/2009 23:00	0.246	0.246	0.139	8.4	502	10.2	7.9		
11/29/2009 23:15	0.246	0.246	0.139	8.4	502	10.2	7.9		
11/29/2009 23:30	0.244	0.244	0.135	8.4	502	10.2	7.9		
11/29/2009 23:45	0.246	0.246	0.139	8.4	502	10.2	7.9		
11/30/2009 0:00	0.247	0.247	0.140	8.4	502	10.2	7.9		
11/30/2009 0:15	0.245	0.245	0.137	8.4	502	10.1	7.9		
11/30/2009 0:30	0.245	0.245	0.137	8.4	502	10.2	7.9		
11/30/2009 0:45	0.245	0.245	0.137	8.5	502	10.1	7.9		
11/30/2009 1:00	0.245	0.245	0.137	8.5	502	10.1	7.9		
11/30/2009 1:15	0.247	0.247	0.140	8.5	502	10.1	7.9		
11/30/2009 1:30	0.246	0.246	0.139	8.5	502	10.1	7.9		
11/30/2009 1:45	0.247	0.247	0.140	8.5	502	10.1	7.9		
11/30/2009 2:00	0.247	0.247	0.140	8.5	502	10.1	7.9		
11/30/2009 2:15	0.246	0.246	0.139	8.6	502	10.1	7.9		
11/30/2009 2:30	0.245	0.245	0.137	8.6	502	10.1	7.9		
11/30/2009 2:45	0.247	0.247	0.140	8.6	502	10.1	7.9		
11/30/2009 3:00	0.247	0.247	0.140	8.6	498	10.1	7.9		
11/30/2009 3:15	0.248	0.248	0.142	8.6	498	10	7.9		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/30/2009 3:30	0.252	0.252	0.149	8.7	486	10.1	7.9		
11/30/2009 3:45	0.256	0.256	0.156	8.7	480	10	7.9		
11/30/2009 4:00	0.26	0.26	0.163	8.7	472	10	7.9		
11/30/2009 4:15	0.262	0.262	0.167	8.7	468	10	7.9		
11/30/2009 4:30	0.267	0.267	0.177	8.7	464	10	7.9		
11/30/2009 4:45	0.266	0.266	0.175	8.7	464	10	7.9		
11/30/2009 5:00	0.269	0.269	0.181	8.8	466	10	7.9		
11/30/2009 5:15	0.269	0.269	0.181	8.8	462	10	7.9		
11/30/2009 5:30	0.269	0.269	0.181	8.8	454	10	7.8		
11/30/2009 5:45	0.285	0.285	0.218	8.8	448	10	7.8		
11/30/2009 6:00	0.303	0.303	0.269	8.8	442	10	7.8		6:01
11/30/2009 6:15	0.303	0.303	0.269	8.8	442	10	7.8		
11/30/2009 6:30	0.299	0.299	0.257	8.8	446	10	7.8		6:31
11/30/2009 6:45	0.3	0.3	0.260	8.9	450	10	7.8		
11/30/2009 7:00	0.301	0.301	0.263	8.9	442	10	7.8		7:01
11/30/2009 7:15	0.293	0.293	0.239	8.9	432	10	7.8		
11/30/2009 7:30	0.293	0.293	0.239	8.9	424	10	7.8		7:31
11/30/2009 7:45	0.287	0.287	0.223	8.9	418	10	7.8		
11/30/2009 8:00	0.275	0.275	0.194	8.9	414	10	7.8		8:01
11/30/2009 8:15	0.273	0.273	0.190	8.9	410	10	7.8		
11/30/2009 8:30	0.276	0.276	0.196	8.9	406	10	7.8		8:31
11/30/2009 8:45	0.273	0.273	0.190	9	398	9.9	7.8		
11/30/2009 9:00	0.28	0.28	0.206	9	392	10	7.8		9:01
11/30/2009 9:15	0.276	0.276	0.196	9	384	9.9	7.8		
11/30/2009 9:30	0.275	0.275	0.194	9.1	376	9.9	7.8		9:31
11/30/2009 9:45	0.279	0.279	0.203	9.1	370	9.9	7.8		
11/30/2009 10:00	0.275	0.275	0.194	9.2	368	9.9	7.9		10:01
11/30/2009 10:15	0.283	0.283	0.213	9.2	368	9.9	7.9		
11/30/2009 10:30	0.285	0.285	0.218	9.2	368	9.9	7.9		10:31
11/30/2009 10:45	0.278	0.278	0.201	9.3	368	9.9	7.9		
11/30/2009 11:00	0.279	0.279	0.203	9.2	366	9.9	7.9		11:01
11/30/2009 11:15	0.28	0.28	0.206	9.2	366	9.9	7.9		
11/30/2009 11:30	0.288	0.288	0.226	9.2	366	9.9	7.9		11:31
11/30/2009 11:45	0.277	0.277	0.199	9.2	366	9.9	7.9		
11/30/2009 12:00	0.281	0.281	0.208	9.2	366	9.9	7.9		
11/30/2009 12:15	0.282	0.282	0.211	9.2	368	9.9	7.9		
11/30/2009 12:30	0.29	0.29	0.231	9.2	368	9.9	7.9		
11/30/2009 12:45	0.288	0.288	0.226	9.2	368	9.9	7.9		
11/30/2009 13:00	0.292	0.292	0.236	9.1	368	9.9	7.9		
11/30/2009 13:15	0.294	0.294	0.242	9.1	368	9.9	7.9		
11/30/2009 13:30	0.292	0.292	0.236	9.2	368	9.9	7.9		
11/30/2009 13:45	0.288	0.288	0.226	9.2	368	9.9	7.9		
11/30/2009 14:00	0.288	0.288	0.226	9.2	366	9.9	7.9		
11/30/2009 14:15	0.29	0.29	0.231	9.2	366	10	7.9		
11/30/2009 14:30	0.278	0.278	0.201	9.1	366	9.9	7.9		
11/30/2009 14:45	0.288	0.288	0.226	9.1	364	9.9	7.9		14:42
11/30/2009 15:00	0.284	0.284	0.215	9	362	9.9	7.9		
11/30/2009 15:15	0.283	0.283	0.213	9	362	9.9	7.9		
11/30/2009 15:30	0.287	0.287	0.223	8.9	362	10	7.9		
11/30/2009 15:45	0.281	0.281	0.208	8.9	362	10	7.9		
11/30/2009 16:00	0.279	0.279	0.203	8.8	362	10	7.9		
11/30/2009 16:15	0.281	0.281	0.208	8.7	362	10	7.9		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
11/30/2009 16:30	0.282	0.282	0.211	8.7	360	10	7.9		
11/30/2009 16:45	0.277	0.277	0.199	8.6	356	10	7.9		
11/30/2009 17:00	0.282	0.282	0.211	8.5	356	10	7.9		
11/30/2009 17:15	0.277	0.277	0.199	8.4	354	10	7.9		
11/30/2009 17:30	0.276	0.276	0.196	8.3	354	10.1	7.9		
11/30/2009 17:45	0.282	0.282	0.211	8.2	354	10	7.9		
11/30/2009 18:00	0.287	0.287	0.223	8.2	354	10	7.9		
11/30/2009 18:15	0.279	0.279	0.203	8.1	354	10.1	7.9		
11/30/2009 18:30	0.283	0.283	0.213	8.1	350	10.1	7.9		
11/30/2009 18:45	0.272	0.272	0.187	8	350	10.1	7.9		
11/30/2009 19:00	0.285	0.285	0.218	8	350	10.1	7.9		
11/30/2009 19:15	0.28	0.28	0.206	8	348	10.1	7.9		
11/30/2009 19:30	0.273	0.273	0.190	7.9	348	10.1	7.8		
11/30/2009 19:45	0.273	0.273	0.190	7.8	348	10.1	7.8		
11/30/2009 20:00	0.279	0.279	0.203	7.8	348	10.1	7.8		
11/30/2009 20:15	0.276	0.276	0.196	7.7	348	10.1	7.8		
11/30/2009 20:30	0.273	0.273	0.190	7.7	348	10.1	7.8		
11/30/2009 20:45	0.276	0.276	0.196	7.7	348	10.1	7.8		
11/30/2009 21:00	0.272	0.272	0.187	7.7	346	10.2	7.8		
11/30/2009 21:15	0.27	0.27	0.183	7.6	346	10.2	7.8		
11/30/2009 21:30	0.27	0.27	0.183	7.6	346	10.2	7.8		
11/30/2009 21:45	0.27	0.27	0.183	7.6	346	10.2	7.8		
11/30/2009 22:00	0.267	0.267	0.177	7.5	346	10.2	7.8		
11/30/2009 22:15	0.27	0.27	0.183	7.5	346	10.2	7.8		
11/30/2009 22:30	0.266	0.266	0.175	7.5	346	10.2	7.8		
11/30/2009 22:45	0.273	0.273	0.190	7.4	346	10.2	7.8		
11/30/2009 23:00	0.266	0.266	0.175	7.4	346	10.2	7.8		
11/30/2009 23:15	0.271	0.271	0.185	7.3	346	10.2	7.8		
11/30/2009 23:30	0.271	0.271	0.185	7.3	346	10.2	7.8		
11/30/2009 23:45	0.266	0.266	0.175	7.3	346	10.2	7.8		
12/1/2009 0:00	0.267	0.267	0.177	7.3	346	10.2	7.8		
12/1/2009 0:15	0.268	0.268	0.179	7.3	346	10.3	7.8		
12/1/2009 0:30	0.27	0.27	0.183	7.2	346	10.2	7.8		
12/1/2009 0:45	0.27	0.27	0.183	7.2	346	10.2	7.8		
12/1/2009 1:00	0.269	0.269	0.181	7.2	346	10.2	7.8		
12/1/2009 1:15	0.271	0.271	0.185	7.1	346	10.2	7.8		
12/1/2009 1:30	0.269	0.269	0.181	7.1	346	10.3	7.8		
12/1/2009 1:45	0.274	0.274	0.192	7	346	10.3	7.8		
12/1/2009 2:00	0.272	0.272	0.187	6.9	346	10.3	7.8		
12/1/2009 2:15	0.27	0.27	0.183	6.8	346	10.3	7.8		
12/1/2009 2:30	0.273	0.273	0.190	6.7	346	10.3	7.8		
12/1/2009 2:45	0.276	0.276	0.196	6.7	346	10.3	7.8		
12/1/2009 3:00	0.275	0.275	0.194	6.6	346	10.3	7.8		
12/1/2009 3:15	0.273	0.273	0.190	6.5	346	10.3	7.8		
12/1/2009 3:30	0.268	0.268	0.179	6.4	346	10.4	7.8		
12/1/2009 3:45	0.269	0.269	0.181	6.4	346	10.4	7.8		
12/1/2009 4:00	0.269	0.269	0.181	6.3	346	10.4	7.8		
12/1/2009 4:15	0.269	0.269	0.181	6.2	346	10.4	7.8		
12/1/2009 4:30	0.272	0.272	0.187	6.1	346	10.4	7.8		
12/1/2009 4:45	0.269	0.269	0.181	6.1	346	10.4	7.8		
12/1/2009 5:00	0.269	0.269	0.181	6	346	10.5	7.8		
12/1/2009 5:15	0.267	0.267	0.177	5.9	348	10.5	7.8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/1/2009 5:30	0.268	0.268	0.179	5.8	348	10.5	7.8		
12/1/2009 5:45	0.27	0.27	0.183	5.8	348	10.5	7.8		
12/1/2009 6:00	0.271	0.271	0.185	5.7	348	10.5	7.8		
12/1/2009 6:15	0.27	0.27	0.183	5.7	348	10.5	7.8		
12/1/2009 6:30	0.269	0.269	0.181	5.7	348	10.5	7.8		
12/1/2009 6:45	0.267	0.267	0.177	5.6	348	10.5	7.8		
12/1/2009 7:00	0.269	0.269	0.181	5.6	348	10.6	7.8		
12/1/2009 7:15	0.273	0.273	0.190	5.5	348	10.5	7.8		
12/1/2009 7:30	0.271	0.271	0.185	5.4	348	10.6	7.8		
12/1/2009 7:45	0.272	0.272	0.187	5.4	348	10.6	7.8		
12/1/2009 8:00	0.272	0.272	0.187	5.4	348	10.6	7.8		
12/1/2009 8:15	0.27	0.27	0.183	5.3	348	10.6	7.8		
12/1/2009 8:30	0.273	0.273	0.190	5.3	348	10.6	7.8		
12/1/2009 8:45	0.27	0.27	0.183	5.3	348	10.7	7.8		
12/1/2009 9:00	0.273	0.273	0.190	5.3	348	10.7	7.8		
12/1/2009 9:15	0.271	0.271	0.185	5.3	348	10.7	7.8		
12/1/2009 9:30	0.267	0.267	0.177	5.3	348	10.7	7.8		
12/1/2009 9:45	0.27	0.27	0.183	5.4	348	10.7	7.8		
12/1/2009 10:00	0.27	0.27	0.183	5.4	348	10.7	7.8		
12/1/2009 10:15	0.271	0.271	0.185	5.4	348	10.7	7.8		
12/1/2009 10:30	0.268	0.268	0.179	5.4	348	10.7	7.8		
12/1/2009 10:45	0.27	0.27	0.183	5.5	348	10.7	7.8		
12/1/2009 11:00	0.27	0.27	0.183	5.5	348	10.7	7.8		
12/1/2009 11:15	0.271	0.271	0.185	5.6	348	10.7	7.8		
12/1/2009 11:30	0.27	0.27	0.183	5.7	348	10.6	7.9		
12/1/2009 11:45	0.268	0.268	0.179	5.9	348	10.6	7.9		
12/1/2009 12:00	0.271	0.271	0.185	6	348	10.6	7.9		
12/1/2009 12:15	0.269	0.269	0.181	6.2	348	10.6	7.9		
12/1/2009 12:30	0.27	0.27	0.183	6.3	348	10.5	7.9		
12/1/2009 12:45	0.265	0.265	0.173	6.5	348	10.5	7.9		
12/1/2009 13:00	0.268	0.268	0.179	6.6	348	10.5	7.9		
12/1/2009 13:15	0.267	0.267	0.177	6.8	348	10.4	7.9		
12/1/2009 13:30	0.268	0.268	0.179	6.9	348	10.4	7.9		
12/1/2009 13:45	0.27	0.27	0.183	7.1	350	10.4	7.9		
12/1/2009 14:00	0.267	0.267	0.177	7.2	350	10.4	7.9		
12/1/2009 14:15	0.269	0.269	0.181	7.3	350	10.3	7.9		
12/1/2009 14:30	0.272	0.272	0.187	7.4	350	10.3	7.9		
12/1/2009 14:45	0.268	0.268	0.179	7.5	350	10.3	7.9		14:42
12/1/2009 15:00	0.27	0.27	0.183	7.5	350	10.3	7.9		
12/1/2009 15:15	0.271	0.271	0.185	7.5	350	10.2	7.9		
12/1/2009 15:30	0.264	0.264	0.171	7.6	350	10.2	7.9		
12/1/2009 15:45	0.27	0.27	0.183	7.6	350	10.2	7.9		
12/1/2009 16:00	0.273	0.273	0.190	7.6	350	10.2	7.9		
12/1/2009 16:15	0.267	0.267	0.177	7.6	350	10.2	7.9		
12/1/2009 16:30	0.274	0.274	0.192	7.6	350	10.2	7.9		
12/1/2009 16:45	0.27	0.27	0.183	7.6	350	10.2	7.9		
12/1/2009 17:00	0.272	0.272	0.187	7.5	352	10.2	7.9		
12/1/2009 17:15	0.267	0.267	0.177	7.5	352	10.1	7.8		
12/1/2009 17:30	0.271	0.271	0.185	7.5	352	10.1	7.8		
12/1/2009 17:45	0.27	0.27	0.183	7.4	352	10.1	7.8		
12/1/2009 18:00	0.268	0.268	0.179	7.4	352	10.1	7.8		
12/1/2009 18:15	0.266	0.266	0.175	7.3	352	10.1	7.8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/1/2009 18:30	0.266	0.266	0.175	7.2	352	10.1	7.8		
12/1/2009 18:45	0.266	0.266	0.175	7.2	352	10.2	7.8		
12/1/2009 19:00	0.268	0.268	0.179	7.1	352	10.1	7.8		
12/1/2009 19:15	0.27	0.27	0.183	7.1	352	10.2	7.8		
12/1/2009 19:30	0.268	0.268	0.179	7	352	10.1	7.8		
12/1/2009 19:45	0.27	0.27	0.183	7	352	10.2	7.8		
12/1/2009 20:00	0.271	0.271	0.185	7	352	10.2	7.8		
12/1/2009 20:15	0.269	0.269	0.181	6.9	352	10.2	7.8		
12/1/2009 20:30	0.27	0.27	0.183	6.9	354	10.2	7.8		
12/1/2009 20:45	0.264	0.264	0.171	6.8	354	10.2	7.8		
12/1/2009 21:00	0.272	0.272	0.187	6.8	354	10.2	7.8		
12/1/2009 21:15	0.272	0.272	0.187	6.8	354	10.2	7.8		
12/1/2009 21:30	0.269	0.269	0.181	6.7	354	10.2	7.8		
12/1/2009 21:45	0.268	0.268	0.179	6.7	354	10.2	7.8		
12/1/2009 22:00	0.268	0.268	0.179	6.7	354	10.2	7.8		
12/1/2009 22:15	0.27	0.27	0.183	6.6	354	10.2	7.8		
12/1/2009 22:30	0.27	0.27	0.183	6.6	354	10.2	7.8		
12/1/2009 22:45	0.272	0.272	0.187	6.6	354	10.2	7.8		
12/1/2009 23:00	0.273	0.273	0.190	6.6	354	10.2	7.8		
12/1/2009 23:15	0.267	0.267	0.177	6.5	354	10.2	7.8		
12/1/2009 23:30	0.271	0.271	0.185	6.5	354	10.2	7.8		
12/1/2009 23:45	0.27	0.27	0.183	6.5	354	10.2	7.8		
12/2/2009 0:00	0.27	0.27	0.183	6.5	354	10.2	7.8		
12/2/2009 0:15	0.269	0.269	0.181	6.5	354	10.2	7.8		
12/2/2009 0:30	0.269	0.269	0.181	6.5	354	10.2	7.8		
12/2/2009 0:45	0.268	0.268	0.179	6.4	354	10.2	7.8		
12/2/2009 1:00	0.269	0.269	0.181	6.4	354	10.2	7.8		
12/2/2009 1:15	0.267	0.267	0.177	6.4	354	10.2	7.8		
12/2/2009 1:30	0.27	0.27	0.183	6.4	354	10.2	7.8		
12/2/2009 1:45	0.268	0.268	0.179	6.4	354	10.2	7.8		
12/2/2009 2:00	0.27	0.27	0.183	6.5	354	10.2	7.8		
12/2/2009 2:15	0.269	0.269	0.181	6.5	354	10.2	7.8		
12/2/2009 2:30	0.267	0.267	0.177	6.5	354	10.2	7.8		
12/2/2009 2:45	0.268	0.268	0.179	6.5	354	10.2	7.8		
12/2/2009 3:00	0.268	0.268	0.179	6.5	354	10.2	7.8		
12/2/2009 3:15	0.269	0.269	0.181	6.5	354	10.2	7.8		
12/2/2009 3:30	0.269	0.269	0.181	6.5	352	10.2	7.8		
12/2/2009 3:45	0.27	0.27	0.183	6.6	346	10.2	7.8		
12/2/2009 4:00	0.269	0.269	0.181	6.6	344	10.1	7.8		
12/2/2009 4:15	0.27	0.27	0.183	6.6	344	10.2	7.8		
12/2/2009 4:30	0.276	0.276	0.196	6.6	342	10.1	7.8		
12/2/2009 4:45	0.273	0.273	0.190	6.7	340	10.1	7.8		
12/2/2009 5:00	0.271	0.271	0.185	6.7	338	10.1	7.8		
12/2/2009 5:15	0.277	0.277	0.199	6.7	334	10.1	7.8		
12/2/2009 5:30	0.276	0.276	0.196	6.8	328	10.1	7.8		
12/2/2009 5:45	0.278	0.278	0.201	6.8	322	10.1	7.8		
12/2/2009 6:00	0.286	0.286	0.221	6.9	316	10	7.8		
12/2/2009 6:15	0.294	0.294	0.242	6.9	310	10	7.7		
12/2/2009 6:30	0.303	0.303	0.269	7	306	10	7.7		
12/2/2009 6:45	0.301	0.301	0.263	7	300	10	7.7		
12/2/2009 7:00	0.309	0.309	0.288	7.1	294	9.9	7.7		
12/2/2009 7:15	0.321	0.321	0.331	7.2	292	10	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/2/2009 7:30	0.33	0.33	0.368	7.3	294	10	7.7		
12/2/2009 7:45	0.331	0.331	0.372	7.3	296	9.9	7.7		
12/2/2009 8:00	0.332	0.332	0.377	7.4	300	9.9	7.7		
12/2/2009 8:15	0.338	0.338	0.404	7.5	298	9.9	7.8		
12/2/2009 8:30	0.328	0.328	0.359	7.5	292	9.9	7.8		
12/2/2009 8:45	0.338	0.338	0.404	7.6	286	9.9	7.8		
12/2/2009 9:00	0.335	0.335	0.390	7.7	278	9.9	7.8		
12/2/2009 9:15	0.333	0.333	0.381	7.8	272	9.8	7.8		
12/2/2009 9:30	0.334	0.334	0.385	7.8	268	9.8	7.8		
12/2/2009 9:45	0.335	0.335	0.390	7.9	268	9.8	7.8		
12/2/2009 10:00	0.338	0.338	0.404	8	266	9.8	7.8		
12/2/2009 10:15	0.341	0.341	0.418	8.1	264	9.8	7.8		
12/2/2009 10:30	0.344	0.344	0.433	8.2	262	9.7	7.8		
12/2/2009 10:45	0.335	0.335	0.390	8.2	260	9.7	7.8		
12/2/2009 11:00	0.339	0.339	0.408	8.3	256	9.7	7.8		
12/2/2009 11:15	0.34	0.34	0.413	8.4	256	9.7	7.8		
12/2/2009 11:30	0.344	0.344	0.433	8.4	252	9.7	7.8		
12/2/2009 11:45	0.351	0.351	0.470	8.5	250	9.6	7.8		
12/2/2009 12:00	0.355	0.355	0.492	8.6	250	9.6	7.8		
12/2/2009 12:15	0.346	0.346	0.443	8.7	246	9.6	7.8		
12/2/2009 12:30	0.329	0.329	0.364	8.8	246	9.6	7.8		
12/2/2009 12:45	0.343	0.343	0.428	8.9	244	9.5	7.8		
12/2/2009 13:00	0.339	0.339	0.408	9	242	9.5	7.8		
12/2/2009 13:15	0.333	0.333	0.381	9	240	9.5	7.8		
12/2/2009 13:30	0.322	0.322	0.335	9.1	238	9.5	7.8		
12/2/2009 13:45	0.323	0.323	0.339	9.3	236	9.4	7.8		
12/2/2009 14:00	0.331	0.331	0.372	9.3	234	9.4	7.8		
12/2/2009 14:15	0.327	0.327	0.355	9.4	232	9.4	7.8		
12/2/2009 14:30	0.331	0.331	0.372	9.5	232	9.4	7.8		
12/2/2009 14:45	0.322	0.322	0.335	9.5	232	9.4	7.8		14:42
12/2/2009 15:00	0.323	0.323	0.339	9.6	230	9.3	7.8		
12/2/2009 15:15	0.317	0.317	0.316	9.6	230	9.3	7.8		
12/2/2009 15:30	0.326	0.326	0.351	9.7	228	9.3	7.8		
12/2/2009 15:45	0.32	0.32	0.327	9.8	228	9.3	7.8		
12/2/2009 16:00	0.318	0.318	0.320	9.9	228	9.3	7.8		
12/2/2009 16:15	0.32	0.32	0.327	10	226	9.3	7.8		
12/2/2009 16:30	0.325	0.325	0.347	10.1	226	9.2	7.8		
12/2/2009 16:45	0.323	0.323	0.339	10.1	224	9.2	7.8		
12/2/2009 17:00	0.318	0.318	0.320	10.2	224	9.2	7.8		
12/2/2009 17:15	0.319	0.319	0.324	10.2	224	9.2	7.8		
12/2/2009 17:30	0.307	0.307	0.282	10.3	222	9.2	7.8		
12/2/2009 17:45	0.317	0.317	0.316	10.3	222	9.2	7.8		
12/2/2009 18:00	0.315	0.315	0.309	10.4	222	9.2	7.7		
12/2/2009 18:15	0.313	0.313	0.302	10.4	220	9.2	7.7		
12/2/2009 18:30	0.318	0.318	0.320	10.5	220	9.2	7.7		
12/2/2009 18:45	0.304	0.304	0.272	10.5	220	9.1	7.7		
12/2/2009 19:00	0.317	0.317	0.316	10.6	218	9.1	7.7		
12/2/2009 19:15	0.307	0.307	0.282	10.7	216	9.1	7.7		
12/2/2009 19:30	0.316	0.316	0.313	10.7	214	9.1	7.7		
12/2/2009 19:45	0.317	0.317	0.316	10.7	214	9.1	7.7		
12/2/2009 20:00	0.342	0.342	0.423	10.6	212	9.1	7.7		
12/2/2009 20:15	0.333	0.333	0.381	10.6	210	9.1	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/2/2009 20:30	0.356	0.356	0.498	10.6	210	9.1	7.7		
12/2/2009 20:45	0.355	0.355	0.492	10.6	210	9.1	7.7		
12/2/2009 21:00	0.357	0.357	0.504	10.5	210	9.2	7.7		
12/2/2009 21:15	0.36	0.36	0.521	10.5	210	9.1	7.7		
12/2/2009 21:30	0.362	0.362	0.534	10.5	210	9.1	7.7		
12/2/2009 21:45	0.349	0.349	0.459	10.4	214	9.2	7.7		
12/2/2009 22:00	0.353	0.353	0.481	10.4	214	9.2	7.7		
12/2/2009 22:15	0.343	0.343	0.428	10.4	214	9.2	7.7		
12/2/2009 22:30	0.351	0.351	0.470	10.3	212	9.2	7.7		
12/2/2009 22:45	0.344	0.344	0.433	10.3	210	9.2	7.7		
12/2/2009 23:00	0.336	0.336	0.394	10.3	210	9.2	7.7		
12/2/2009 23:15	0.341	0.341	0.418	10.2	210	9.2	7.7		
12/2/2009 23:30	0.335	0.335	0.390	10.2	208	9.2	7.7		
12/2/2009 23:45	0.333	0.333	0.381	10.1	208	9.2	7.7		
12/3/2009 0:00	0.329	0.329	0.364	10.1	208	9.2	7.7		
12/3/2009 0:15	0.348	0.348	0.454	10.1	208	9.2	7.7		
12/3/2009 0:30	0.341	0.341	0.418	10	208	9.2	7.7		
12/3/2009 0:45	0.344	0.344	0.433	10	208	9.2	7.7		
12/3/2009 1:00	0.348	0.348	0.454	9.9	208	9.2	7.7		
12/3/2009 1:15	0.34	0.34	0.413	9.9	208	9.2	7.7		
12/3/2009 1:30	0.35	0.35	0.464	9.8	206	9.3	7.7		
12/3/2009 1:45	0.342	0.342	0.423	9.8	206	9.2	7.7		
12/3/2009 2:00	0.339	0.339	0.408	9.8	206	9.3	7.7		
12/3/2009 2:15	0.335	0.335	0.390	9.7	206	9.3	7.7		
12/3/2009 2:30	0.343	0.343	0.428	9.7	206	9.3	7.7		
12/3/2009 2:45	0.343	0.343	0.428	9.6	206	9.3	7.7		
12/3/2009 3:00	0.345	0.345	0.438	9.6	206	9.3	7.7		
12/3/2009 3:15	0.336	0.336	0.394	9.5	206	9.3	7.7		
12/3/2009 3:30	0.338	0.338	0.404	9.4	206	9.3	7.7		
12/3/2009 3:45	0.338	0.338	0.404	9.4	206	9.3	7.7		
12/3/2009 4:00	0.335	0.335	0.390	9.3	206	9.3	7.7		
12/3/2009 4:15	0.339	0.339	0.408	9.2	206	9.4	7.7		
12/3/2009 4:30	0.339	0.339	0.408	9.2	206	9.4	7.7		
12/3/2009 4:45	0.339	0.339	0.408	9.1	206	9.4	7.7		
12/3/2009 5:00	0.336	0.336	0.394	9.1	206	9.4	7.7		
12/3/2009 5:15	0.34	0.34	0.413	9	206	9.4	7.7		
12/3/2009 5:30	0.34	0.34	0.413	8.9	206	9.4	7.7		
12/3/2009 5:45	0.335	0.335	0.390	8.9	206	9.4	7.7		
12/3/2009 6:00	0.339	0.339	0.408	8.8	206	9.4	7.7		
12/3/2009 6:15	0.33	0.33	0.368	8.8	206	9.4	7.7		
12/3/2009 6:30	0.331	0.331	0.372	8.7	204	9.4	7.7		
12/3/2009 6:45	0.327	0.327	0.355	8.7	204	9.5	7.7		
12/3/2009 7:00	0.331	0.331	0.372	8.6	204	9.5	7.7		
12/3/2009 7:15	0.325	0.325	0.347	8.6	204	9.5	7.7		
12/3/2009 7:30	0.322	0.322	0.335	8.6	204	9.5	7.7		
12/3/2009 7:45	0.331	0.331	0.372	8.5	204	9.5	7.7		
12/3/2009 8:00	0.326	0.326	0.351	8.5	204	9.5	7.7		
12/3/2009 8:15	0.329	0.329	0.364	8.5	204	9.5	7.7		
12/3/2009 8:30	0.32	0.32	0.327	8.5	204	9.5	7.7		
12/3/2009 8:45	0.333	0.333	0.381	8.4	204	9.5	7.7		
12/3/2009 9:00	0.318	0.318	0.320	8.4	204	9.5	7.7		
12/3/2009 9:15	0.324	0.324	0.343	8.4	204	9.5	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/3/2009 9:30	0.333	0.333	0.381	8.4	204	9.5	7.7		
12/3/2009 9:45	0.328	0.328	0.359	8.4	204	9.5	7.7		
12/3/2009 10:00	0.327	0.327	0.355	8.3	204	9.5	7.7		
12/3/2009 10:15	0.329	0.329	0.364	8.3	204	9.5	7.7		
12/3/2009 10:30	0.314	0.314	0.305	8.3	204	9.6	7.7		
12/3/2009 10:45	0.32	0.32	0.327	8.3	204	9.5	7.7		
12/3/2009 11:00	0.315	0.315	0.309	8.3	204	9.6	7.7		
12/3/2009 11:15	0.307	0.307	0.282	8.3	204	9.5	7.7		
12/3/2009 11:30	0.303	0.303	0.269	8.2	204	9.5	7.7		
12/3/2009 11:45	0.312	0.312	0.298	8.2	204	9.6	7.7		
12/3/2009 12:00	0.315	0.315	0.309	8.2	204	9.6	7.7		
12/3/2009 12:15	0.306	0.306	0.278	8.2	204	9.6	7.7		
12/3/2009 12:30	0.316	0.316	0.313	8.2	204	9.6	7.7		
12/3/2009 12:45	0.311	0.311	0.295	8.2	204	9.6	7.7		
12/3/2009 13:00	0.306	0.306	0.278	8.2	204	9.6	7.7		
12/3/2009 13:15	0.315	0.315	0.309	8.2	202	9.6	7.7		
12/3/2009 13:30	0.305	0.305	0.275	8.2	202	9.5	7.7		
12/3/2009 13:45	0.311	0.311	0.295	8.2	202	9.6	7.7		
12/3/2009 14:00	0.308	0.308	0.285	8.2	204	9.6	7.7		
12/3/2009 14:15	0.309	0.309	0.288	8.2	204	9.6	7.7		
12/3/2009 14:30	0.308	0.308	0.285	8.2	204	9.6	7.7		
12/3/2009 14:45	0.307	0.307	0.282	8.2	204	9.5	7.7		14:42
12/3/2009 15:00	0.303	0.303	0.269	8.2	204	9.5	7.7		
12/3/2009 15:15	0.309	0.309	0.288	8.2	204	9.5	7.7		
12/3/2009 15:30	0.302	0.302	0.266	8.2	204	9.5	7.7		
12/3/2009 15:45	0.301	0.301	0.263	8.1	204	9.5	7.7		
12/3/2009 16:00	0.303	0.303	0.269	8.1	204	9.5	7.6		
12/3/2009 16:15	0.31	0.31	0.292	8.1	204	9.6	7.6		
12/3/2009 16:30	0.306	0.306	0.278	8.1	204	9.5	7.6		
12/3/2009 16:45	0.308	0.308	0.285	8.1	204	9.5	7.6		
12/3/2009 17:00	0.316	0.316	0.313	8.1	204	9.5	7.6		
12/3/2009 17:15	0.305	0.305	0.275	8	204	9.6	7.6		
12/3/2009 17:30	0.318	0.318	0.320	8	204	9.5	7.6		
12/3/2009 17:45	0.316	0.316	0.313	8	204	9.5	7.6		
12/3/2009 18:00	0.308	0.308	0.285	8	204	9.5	7.6		
12/3/2009 18:15	0.306	0.306	0.278	8	204	9.6	7.6		
12/3/2009 18:30	0.307	0.307	0.282	8	204	9.5	7.6		
12/3/2009 18:45	0.312	0.312	0.298	7.9	204	9.5	7.6		
12/3/2009 19:00	0.303	0.303	0.269	7.9	204	9.6	7.6		
12/3/2009 19:15	0.312	0.312	0.298	7.9	204	9.6	7.6		
12/3/2009 19:30	0.303	0.303	0.269	7.9	204	9.6	7.6		
12/3/2009 19:45	0.306	0.306	0.278	7.9	204	9.6	7.6		
12/3/2009 20:00	0.304	0.304	0.272	7.9	206	9.6	7.6		
12/3/2009 20:15	0.305	0.305	0.275	7.9	206	9.6	7.6		
12/3/2009 20:30	0.314	0.314	0.305	7.8	206	9.6	7.6		
12/3/2009 20:45	0.307	0.307	0.282	7.8	206	9.6	7.6		
12/3/2009 21:00	0.309	0.309	0.288	7.8	206	9.6	7.6		
12/3/2009 21:15	0.304	0.304	0.272	7.8	206	9.6	7.6		
12/3/2009 21:30	0.305	0.305	0.275	7.8	206	9.6	7.6		
12/3/2009 21:45	0.307	0.307	0.282	7.8	206	9.6	7.6		
12/3/2009 22:00	0.308	0.308	0.285	7.8	206	9.6	7.6		
12/3/2009 22:15	0.3	0.3	0.260	7.7	206	9.6	7.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/3/2009 22:30	0.309	0.309	0.288	7.7	206	9.6	7.6		
12/3/2009 22:45	0.305	0.305	0.275	7.7	206	9.6	7.6		
12/3/2009 23:00	0.299	0.299	0.257	7.7	206	9.6	7.6		
12/3/2009 23:15	0.304	0.304	0.272	7.7	206	9.6	7.6		
12/3/2009 23:30	0.306	0.306	0.278	7.6	208	9.6	7.6		
12/3/2009 23:45	0.309	0.309	0.288	7.6	208	9.6	7.6		
12/4/2009 0:00	0.3	0.3	0.260	7.6	208	9.6	7.6		
12/4/2009 0:15	0.302	0.302	0.266	7.6	208	9.6	7.6		
12/4/2009 0:30	0.307	0.307	0.282	7.6	208	9.6	7.6		
12/4/2009 0:45	0.32	0.32	0.327	7.5	208	9.6	7.6		
12/4/2009 1:00	0.304	0.304	0.272	7.5	208	9.6	7.6		
12/4/2009 1:15	0.304	0.304	0.272	7.5	208	9.6	7.6		
12/4/2009 1:30	0.3	0.3	0.260	7.5	208	9.6	7.6		
12/4/2009 1:45	0.302	0.302	0.266	7.4	208	9.6	7.6		
12/4/2009 2:00	0.306	0.306	0.278	7.4	208	9.6	7.6		
12/4/2009 2:15	0.307	0.307	0.282	7.4	208	9.6	7.6		
12/4/2009 2:30	0.305	0.305	0.275	7.4	208	9.6	7.6		
12/4/2009 2:45	0.304	0.304	0.272	7.4	208	9.6	7.6		
12/4/2009 3:00	0.305	0.305	0.275	7.4	210	9.6	7.6		
12/4/2009 3:15	0.303	0.303	0.269	7.3	210	9.6	7.6		
12/4/2009 3:30	0.301	0.301	0.263	7.3	210	9.6	7.6		
12/4/2009 3:45	0.298	0.298	0.254	7.3	210	9.7	7.6		
12/4/2009 4:00	0.303	0.303	0.269	7.3	210	9.6	7.6		
12/4/2009 4:15	0.299	0.299	0.257	7.2	210	9.6	7.6		
12/4/2009 4:30	0.296	0.296	0.248	7.2	210	9.6	7.6		
12/4/2009 4:45	0.292	0.292	0.236	7.2	210	9.6	7.6		
12/4/2009 5:00	0.303	0.303	0.269	7.1	210	9.7	7.6		
12/4/2009 5:15	0.303	0.303	0.269	7.1	210	9.7	7.6		
12/4/2009 5:30	0.3	0.3	0.260	7.1	210	9.7	7.6		
12/4/2009 5:45	0.3	0.3	0.260	7	210	9.7	7.6		
12/4/2009 6:00	0.304	0.304	0.272	7	210	9.7	7.6		
12/4/2009 6:15	0.295	0.295	0.245	7	212	9.7	7.6		
12/4/2009 6:30	0.301	0.301	0.263	6.9	212	9.7	7.6		
12/4/2009 6:45	0.3	0.3	0.260	6.9	212	9.7	7.6		
12/4/2009 7:00	0.298	0.298	0.254	6.9	212	9.7	7.6		
12/4/2009 7:15	0.306	0.306	0.278	6.8	212	9.7	7.6		
12/4/2009 7:30	0.301	0.301	0.263	6.8	212	9.7	7.6		
12/4/2009 7:45	0.296	0.296	0.248	6.8	212	9.7	7.6		
12/4/2009 8:00	0.302	0.302	0.266	6.7	212	9.7	7.6		
12/4/2009 8:15	0.295	0.295	0.245	6.7	212	9.7	7.6		
12/4/2009 8:30	0.298	0.298	0.254	6.7	212	9.7	7.6		
12/4/2009 8:45	0.302	0.302	0.266	6.7	212	9.7	7.6		
12/4/2009 9:00	0.299	0.299	0.257	6.7	212	9.8	7.6		
12/4/2009 9:15	0.296	0.296	0.248	6.7	212	9.8	7.6		
12/4/2009 9:30	0.296	0.296	0.248	6.7	214	9.8	7.7		
12/4/2009 9:45	0.287	0.287	0.223	6.7	214	9.8	7.7		
12/4/2009 10:00	0.298	0.298	0.254	6.7	214	9.8	7.7		
12/4/2009 10:15	0.294	0.294	0.242	6.7	214	9.8	7.7		
12/4/2009 10:30	0.298	0.298	0.254	6.8	214	9.8	7.7		
12/4/2009 10:45	0.293	0.293	0.239	6.9	214	9.8	7.7		
12/4/2009 11:00	0.294	0.294	0.242	6.9	214	9.7	7.7		
12/4/2009 11:15	0.294	0.294	0.242	7	214	9.7	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/4/2009 11:30	0.301	0.301	0.263	7	214	9.7	7.7		
12/4/2009 11:45	0.292	0.292	0.236	7	214	9.8	7.7		
12/4/2009 12:00	0.296	0.296	0.248	7.1	216	9.7	7.7		
12/4/2009 12:15	0.3	0.3	0.260	7.1	216	9.7	7.7		
12/4/2009 12:30	0.294	0.294	0.242	7.1	216	9.7	7.7		
12/4/2009 12:45	0.299	0.299	0.257	7.2	216	9.7	7.7		
12/4/2009 13:00	0.295	0.295	0.245	7.2	216	9.7	7.7		
12/4/2009 13:15	0.297	0.297	0.251	7.2	216	9.7	7.7		
12/4/2009 13:30	0.29	0.29	0.231	7.3	216	9.7	7.7		
12/4/2009 13:45	0.291	0.291	0.234	7.3	216	9.7	7.7		
12/4/2009 14:00	0.287	0.287	0.223	7.3	216	9.7	7.7		
12/4/2009 14:15	0.296	0.296	0.248	7.3	216	9.7	7.7		
12/4/2009 14:30	0.288	0.288	0.226	7.3	218	9.7	7.7		
12/4/2009 14:45	0.293	0.293	0.239	7.4	218	9.6	7.7		14:42
12/4/2009 15:00	0.294	0.294	0.242	7.4	218	9.6	7.7		
12/4/2009 15:15	0.29	0.29	0.231	7.3	218	9.6	7.7		
12/4/2009 15:30	0.292	0.292	0.236	7.4	218	9.7	7.7		
12/4/2009 15:45	0.291	0.291	0.234	7.3	218	9.6	7.7		
12/4/2009 16:00	0.294	0.294	0.242	7.3	218	9.6	7.7		
12/4/2009 16:15	0.292	0.292	0.236	7.3	218	9.6	7.7		
12/4/2009 16:30	0.291	0.291	0.234	7.3	218	9.6	7.7		
12/4/2009 16:45	0.294	0.294	0.242	7.2	218	9.6	7.7		
12/4/2009 17:00	0.293	0.293	0.239	7.2	220	9.6	7.7		
12/4/2009 17:15	0.288	0.288	0.226	7.2	220	9.6	7.7		
12/4/2009 17:30	0.294	0.294	0.242	7.1	220	9.6	7.7		
12/4/2009 17:45	0.286	0.286	0.221	7.1	220	9.6	7.7		
12/4/2009 18:00	0.29	0.29	0.231	7.1	220	9.6	7.7		
12/4/2009 18:15	0.287	0.287	0.223	7	220	9.6	7.7		
12/4/2009 18:30	0.288	0.288	0.226	7	220	9.6	7.6		
12/4/2009 18:45	0.287	0.287	0.223	7	220	9.6	7.6		
12/4/2009 19:00	0.294	0.294	0.242	7	220	9.6	7.6		
12/4/2009 19:15	0.284	0.284	0.215	6.9	220	9.6	7.6		
12/4/2009 19:30	0.291	0.291	0.234	6.9	220	9.6	7.6		
12/4/2009 19:45	0.29	0.29	0.231	6.9	222	9.6	7.6		
12/4/2009 20:00	0.289	0.289	0.228	6.8	222	9.6	7.6		
12/4/2009 20:15	0.289	0.289	0.228	6.8	222	9.6	7.6		
12/4/2009 20:30	0.292	0.292	0.236	6.8	222	9.6	7.6		
12/4/2009 20:45	0.295	0.295	0.245	6.8	222	9.6	7.6		
12/4/2009 21:00	0.289	0.289	0.228	6.7	222	9.6	7.6		
12/4/2009 21:15	0.289	0.289	0.228	6.7	222	9.6	7.6		
12/4/2009 21:30	0.283	0.283	0.213	6.7	222	9.6	7.6		
12/4/2009 21:45	0.29	0.29	0.231	6.6	222	9.7	7.6		
12/4/2009 22:00	0.287	0.287	0.223	6.6	222	9.6	7.6		
12/4/2009 22:15	0.28	0.28	0.206	6.6	224	9.6	7.6		
12/4/2009 22:30	0.284	0.284	0.215	6.6	224	9.6	7.6		
12/4/2009 22:45	0.285	0.285	0.218	6.6	224	9.6	7.6		
12/4/2009 23:00	0.282	0.282	0.211	6.6	224	9.6	7.6		
12/4/2009 23:15	0.277	0.277	0.199	6.6	224	9.7	7.6		
12/4/2009 23:30	0.286	0.286	0.221	6.6	224	9.6	7.6		
12/4/2009 23:45	0.281	0.281	0.208	6.6	224	9.6	7.6		
12/5/2009 0:00	0.283	0.283	0.213	6.5	224	9.6	7.6		
12/5/2009 0:15	0.282	0.282	0.211	6.5	226	9.6	7.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/5/2009 0:30	0.28	0.28	0.206	6.5	226	9.6	7.6		
12/5/2009 0:45	0.283	0.283	0.213	6.5	226	9.7	7.6		
12/5/2009 1:00	0.277	0.277	0.199	6.5	226	9.6	7.6		
12/5/2009 1:15	0.279	0.279	0.203	6.5	226	9.6	7.6		
12/5/2009 1:30	0.283	0.283	0.213	6.5	226	9.6	7.6		
12/5/2009 1:45	0.279	0.279	0.203	6.4	226	9.6	7.6		
12/5/2009 2:00	0.283	0.283	0.213	6.4	226	9.6	7.6		
12/5/2009 2:15	0.281	0.281	0.208	6.4	226	9.7	7.6		
12/5/2009 2:30	0.274	0.274	0.192	6.3	228	9.7	7.6		
12/5/2009 2:45	0.279	0.279	0.203	6.2	228	9.7	7.6		
12/5/2009 3:00	0.28	0.28	0.206	6.1	228	9.7	7.6		
12/5/2009 3:15	0.277	0.277	0.199	6.1	228	9.7	7.6		
12/5/2009 3:30	0.277	0.277	0.199	6.1	228	9.7	7.6		
12/5/2009 3:45	0.28	0.28	0.206	6	228	9.7	7.6		
12/5/2009 4:00	0.281	0.281	0.208	6	228	9.7	7.6		
12/5/2009 4:15	0.281	0.281	0.208	5.9	228	9.7	7.6		
12/5/2009 4:30	0.275	0.275	0.194	5.8	228	9.7	7.6		
12/5/2009 4:45	0.286	0.286	0.221	5.8	228	9.7	7.6		
12/5/2009 5:00	0.277	0.277	0.199	5.7	228	9.7	7.6		
12/5/2009 5:15	0.284	0.284	0.215	5.6	228	9.8	7.6		
12/5/2009 5:30	0.276	0.276	0.196	5.5	228	9.7	7.6		
12/5/2009 5:45	0.28	0.28	0.206	5.5	228	9.7	7.6		
12/5/2009 6:00	0.277	0.277	0.199	5.5	228	9.8	7.6		
12/5/2009 6:15	0.277	0.277	0.199	5.5	230	9.8	7.6		
12/5/2009 6:30	0.277	0.277	0.199	5.5	230	9.8	7.6		
12/5/2009 6:45	0.283	0.283	0.213	5.4	230	9.8	7.6		
12/5/2009 7:00	0.279	0.279	0.203	5.3	230	9.8	7.6		
12/5/2009 7:15	0.279	0.279	0.203	5.2	230	9.8	7.6		
12/5/2009 7:30	0.276	0.276	0.196	5.2	230	9.8	7.6		
12/5/2009 7:45	0.28	0.28	0.206	5.1	230	9.8	7.6		
12/5/2009 8:00	0.28	0.28	0.206	5.1	230	9.8	7.6		
12/5/2009 8:15	0.281	0.281	0.208	5	230	9.9	7.6		
12/5/2009 8:30	0.282	0.282	0.211	5	230	9.9	7.6		
12/5/2009 8:45	0.283	0.283	0.213	5	230	9.9	7.7		
12/5/2009 9:00	0.277	0.277	0.199	5	230	9.9	7.7		
12/5/2009 9:15	0.278	0.278	0.201	5	230	9.9	7.7		
12/5/2009 9:30	0.275	0.275	0.194	5	230	9.9	7.7		
12/5/2009 9:45	0.281	0.281	0.208	5.1	230	9.9	7.7		
12/5/2009 10:00	0.275	0.275	0.194	5.1	230	9.9	7.7		
12/5/2009 10:15	0.272	0.272	0.187	5.2	232	9.9	7.7		
12/5/2009 10:30	0.276	0.276	0.196	5.2	232	9.9	7.7		
12/5/2009 10:45	0.275	0.275	0.194	5.3	232	9.9	7.7		
12/5/2009 11:00	0.273	0.273	0.190	5.3	232	9.9	7.7		
12/5/2009 11:15	0.275	0.275	0.194	5.4	232	9.8	7.7		
12/5/2009 11:30	0.278	0.278	0.201	5.5	232	9.9	7.7		
12/5/2009 11:45	0.273	0.273	0.190	5.5	232	9.8	7.7		
12/5/2009 12:00	0.277	0.277	0.199	5.6	232	9.8	7.7		
12/5/2009 12:15	0.275	0.275	0.194	5.6	232	9.8	7.7		
12/5/2009 12:30	0.273	0.273	0.190	5.6	232	9.8	7.7		
12/5/2009 12:45	0.267	0.267	0.177	5.7	234	9.8	7.7		
12/5/2009 13:00	0.272	0.272	0.187	5.8	234	9.8	7.7		
12/5/2009 13:15	0.267	0.267	0.177	5.7	234	9.8	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/5/2009 13:30	0.275	0.275	0.194	5.8	234	9.8	7.7		
12/5/2009 13:45	0.266	0.266	0.175	5.8	234	9.8	7.7		
12/5/2009 14:00	0.271	0.271	0.185	5.9	234	9.8	7.7		
12/5/2009 14:15	0.272	0.272	0.187	5.9	234	9.7	7.7		
12/5/2009 14:30	0.273	0.273	0.190	5.9	236	9.8	7.7		
12/5/2009 14:45	0.276	0.276	0.196	5.9	236	9.7	7.7		14:42
12/5/2009 15:00	0.268	0.268	0.179	5.9	236	9.7	7.7		
12/5/2009 15:15	0.268	0.268	0.179	5.9	236	9.7	7.7		
12/5/2009 15:30	0.268	0.268	0.179	5.8	236	9.7	7.7		
12/5/2009 15:45	0.266	0.266	0.175	5.7	236	9.7	7.7		
12/5/2009 16:00	0.262	0.262	0.167	5.7	238	9.7	7.7		
12/5/2009 16:15	0.267	0.267	0.177	5.7	238	9.7	7.7		
12/5/2009 16:30	0.266	0.266	0.175	5.6	238	9.7	7.7		
12/5/2009 16:45	0.27	0.27	0.183	5.5	238	9.7	7.7		
12/5/2009 17:00	0.273	0.273	0.190	5.5	238	9.7	7.7		
12/5/2009 17:15	0.269	0.269	0.181	5.4	238	9.8	7.7		
12/5/2009 17:30	0.273	0.273	0.190	5.3	240	9.7	7.7		
12/5/2009 17:45	0.268	0.268	0.179	5.3	240	9.7	7.7		
12/5/2009 18:00	0.27	0.27	0.183	5.2	240	9.7	7.7		
12/5/2009 18:15	0.267	0.267	0.177	5.1	240	9.8	7.7		
12/5/2009 18:30	0.266	0.266	0.175	5.1	240	9.8	7.7		
12/5/2009 18:45	0.267	0.267	0.177	5	240	9.8	7.7		
12/5/2009 19:00	0.269	0.269	0.181	4.9	240	9.8	7.7		
12/5/2009 19:15	0.269	0.269	0.181	4.9	240	9.8	7.7		
12/5/2009 19:30	0.273	0.273	0.190	4.8	240	9.8	7.7		
12/5/2009 19:45	0.271	0.271	0.185	4.8	242	9.9	7.7		
12/5/2009 20:00	0.266	0.266	0.175	4.7	242	9.8	7.7		
12/5/2009 20:15	0.267	0.267	0.177	4.6	242	9.8	7.7		
12/5/2009 20:30	0.265	0.265	0.173	4.6	242	9.8	7.7		
12/5/2009 20:45	0.273	0.273	0.190	4.5	242	9.8	7.7		
12/5/2009 21:00	0.27	0.27	0.183	4.5	242	9.9	7.7		
12/5/2009 21:15	0.27	0.27	0.183	4.4	242	9.9	7.7		
12/5/2009 21:30	0.267	0.267	0.177	4.3	242	9.9	7.7		
12/5/2009 21:45	0.26	0.26	0.163	4.3	244	9.9	7.7		
12/5/2009 22:00	0.262	0.262	0.167	4.2	244	9.9	7.7		
12/5/2009 22:15	0.264	0.264	0.171	4.2	244	9.9	7.7		
12/5/2009 22:30	0.268	0.268	0.179	4.1	244	9.9	7.7		
12/5/2009 22:45	0.271	0.271	0.185	4	244	9.9	7.7		
12/5/2009 23:00	0.264	0.264	0.171	4	244	9.9	7.7		
12/5/2009 23:15	0.266	0.266	0.175	3.9	244	9.9	7.7		
12/5/2009 23:30	0.264	0.264	0.171	3.9	244	9.9	7.7		
12/5/2009 23:45	0.266	0.266	0.175	3.8	244	9.9	7.7		
12/6/2009 0:00	0.258	0.258	0.159	3.8	246	9.9	7.7		
12/6/2009 0:15	0.266	0.266	0.175	3.7	246	10	7.7		
12/6/2009 0:30	0.265	0.265	0.173	3.7	246	9.9	7.7		
12/6/2009 0:45	0.268	0.268	0.179	3.6	246	10	7.7		
12/6/2009 1:00	0.265	0.265	0.173	3.6	246	10	7.7		
12/6/2009 1:15	0.259	0.259	0.161	3.5	246	10	7.7		
12/6/2009 1:30	0.258	0.258	0.159	3.5	246	10	7.7		
12/6/2009 1:45	0.258	0.258	0.159	3.4	248	10	7.6		
12/6/2009 2:00	0.261	0.261	0.165	3.4	248	10	7.6		
12/6/2009 2:15	0.263	0.263	0.169	3.3	248	10	7.6		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/6/2009 2:30	0.26	0.26	0.163	3.3	248	10	7.6		
12/6/2009 2:45	0.263	0.263	0.169	3.3	248	10	7.6		
12/6/2009 3:00	0.262	0.262	0.167	3.2	248	10	7.6		
12/6/2009 3:15	0.258	0.258	0.159	3.2	248	10	7.6		
12/6/2009 3:30	0.264	0.264	0.171	3.1	248	10	7.6		
12/6/2009 3:45	0.258	0.258	0.159	3.1	250	10	7.6		
12/6/2009 4:00	0.258	0.258	0.159	3	250	10	7.6		
12/6/2009 4:15	0.262	0.262	0.167	3	250	10.1	7.6		
12/6/2009 4:30	0.261	0.261	0.165	3	250	10	7.6		
12/6/2009 4:45	0.26	0.26	0.163	2.9	250	10	7.6		
12/6/2009 5:00	0.258	0.258	0.159	2.9	250	10	7.6		
12/6/2009 5:15	0.263	0.263	0.169	2.8	250	10.1	7.6		
12/6/2009 5:30	0.264	0.264	0.171	2.8	250	10	7.6		
12/6/2009 5:45	0.262	0.262	0.167	2.8	250	10.1	7.6		
12/6/2009 6:00	0.261	0.261	0.165	2.7	250	10.1	7.6		
12/6/2009 6:15	0.263	0.263	0.169	2.7	250	10.1	7.6		
12/6/2009 6:30	0.264	0.264	0.171	2.6	252	10.1	7.6		
12/6/2009 6:45	0.264	0.264	0.171	2.6	252	10.1	7.6		
12/6/2009 7:00	0.263	0.263	0.169	2.6	252	10.1	7.6		
12/6/2009 7:15	0.265	0.265	0.173	2.5	252	10.1	7.6		
12/6/2009 7:30	0.262	0.262	0.167	2.5	252	10.1	7.6		
12/6/2009 7:45	0.262	0.262	0.167	2.5	252	10.1	7.6		
12/6/2009 8:00	0.259	0.259	0.161	2.5	254	10.1	7.6		
12/6/2009 8:15	0.258	0.258	0.159	2.5	254	10.1	7.6		
12/6/2009 8:30	0.258	0.258	0.159	2.5	254	10.1	7.7		
12/6/2009 8:45	0.263	0.263	0.169	2.5	254	10.1	7.7		
12/6/2009 9:00	0.258	0.258	0.159	2.5	254	10.1	7.7		
12/6/2009 9:15	0.262	0.262	0.167	2.6	256	10.1	7.7		
12/6/2009 9:30	0.258	0.258	0.159	2.6	256	10.1	7.7		
12/6/2009 9:45	0.259	0.259	0.161	2.7	256	10.1	7.7		
12/6/2009 10:00	0.259	0.259	0.161	2.8	256	10.1	7.7		
12/6/2009 10:15	0.261	0.261	0.165	2.8	256	10.1	7.7		
12/6/2009 10:30	0.26	0.26	0.163	2.9	256	10.1	7.7		
12/6/2009 10:45	0.256	0.256	0.156	3	256	10.1	7.7		
12/6/2009 11:00	0.258	0.258	0.159	3.1	256	10.1	7.7		
12/6/2009 11:15	0.259	0.259	0.161	3.2	256	10.1	7.7		
12/6/2009 11:30	0.262	0.262	0.167	3.3	256	10	7.7		
12/6/2009 11:45	0.255	0.255	0.154	3.3	258	10	7.7		
12/6/2009 12:00	0.257	0.257	0.157	3.4	258	10	7.7		
12/6/2009 12:15	0.259	0.259	0.161	3.6	258	10	7.7		
12/6/2009 12:30	0.257	0.257	0.157	3.7	258	10	7.7		
12/6/2009 12:45	0.259	0.259	0.161	3.8	258	9.9	7.7		
12/6/2009 13:00	0.26	0.26	0.163	4	258	9.9	7.7		
12/6/2009 13:15	0.257	0.257	0.157	4.1	258	9.9	7.7		
12/6/2009 13:30	0.255	0.255	0.154	4.3	258	9.9	7.7		
12/6/2009 13:45	0.262	0.262	0.167	4.4	260	9.9	7.7		
12/6/2009 14:00	0.253	0.253	0.150	4.5	260	9.8	7.7		
12/6/2009 14:15	0.259	0.259	0.161	4.6	260	9.8	7.7		
12/6/2009 14:30	0.257	0.257	0.157	4.7	260	9.8	7.7		
12/6/2009 14:45	0.259	0.259	0.161	4.7	260	9.8	7.7		14:42
12/6/2009 15:00	0.26	0.26	0.163	4.8	260	9.8	7.7		
12/6/2009 15:15	0.259	0.259	0.161	4.8	260	9.8	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/6/2009 15:30	0.261	0.261	0.165	4.8	260	9.8	7.7		
12/6/2009 15:45	0.254	0.254	0.152	4.8	260	9.8	7.7		
12/6/2009 16:00	0.255	0.255	0.154	4.8	262	9.8	7.7		
12/6/2009 16:15	0.254	0.254	0.152	4.8	262	9.7	7.7		
12/6/2009 16:30	0.256	0.256	0.156	4.8	262	9.7	7.7		
12/6/2009 16:45	0.262	0.262	0.167	4.8	262	9.7	7.7		
12/6/2009 17:00	0.255	0.255	0.154	4.7	262	9.7	7.7		
12/6/2009 17:15	0.257	0.257	0.157	4.7	262	9.7	7.7		
12/6/2009 17:30	0.255	0.255	0.154	4.7	264	9.7	7.7		
12/6/2009 17:45	0.259	0.259	0.161	4.7	264	9.7	7.7		
12/6/2009 18:00	0.257	0.257	0.157	4.7	264	9.7	7.7		
12/6/2009 18:15	0.255	0.255	0.154	4.6	264	9.7	7.7		
12/6/2009 18:30	0.26	0.26	0.163	4.6	264	9.7	7.7		
12/6/2009 18:45	0.256	0.256	0.156	4.6	264	9.7	7.7		
12/6/2009 19:00	0.259	0.259	0.161	4.6	264	9.7	7.7		
12/6/2009 19:15	0.262	0.262	0.167	4.5	266	9.7	7.7		
12/6/2009 19:30	0.258	0.258	0.159	4.5	266	9.7	7.7		
12/6/2009 19:45	0.257	0.257	0.157	4.5	266	9.7	7.7		
12/6/2009 20:00	0.259	0.259	0.161	4.5	266	9.7	7.7		
12/6/2009 20:15	0.251	0.251	0.147	4.5	266	9.7	7.7		
12/6/2009 20:30	0.251	0.251	0.147	4.4	266	9.8	7.7		
12/6/2009 20:45	0.254	0.254	0.152	4.4	266	9.7	7.7		
12/6/2009 21:00	0.248	0.248	0.142	4.4	266	9.7	7.7		
12/6/2009 21:15	0.251	0.251	0.147	4.3	266	9.8	7.7		
12/6/2009 21:30	0.257	0.257	0.157	4.3	266	9.7	7.7		
12/6/2009 21:45	0.25	0.25	0.145	4.3	266	9.7	7.7		
12/6/2009 22:00	0.257	0.257	0.157	4.3	266	9.7	7.7		
12/6/2009 22:15	0.256	0.256	0.156	4.3	266	9.7	7.7		
12/6/2009 22:30	0.249	0.249	0.143	4.3	266	9.7	7.7		
12/6/2009 22:45	0.249	0.249	0.143	4.3	266	9.7	7.7		
12/6/2009 23:00	0.251	0.251	0.147	4.3	266	9.8	7.7		
12/6/2009 23:15	0.257	0.257	0.157	4.3	268	9.7	7.7		
12/6/2009 23:30	0.253	0.253	0.150	4.3	268	9.7	7.7		
12/6/2009 23:45	0.255	0.255	0.154	4.2	268	9.7	7.7		
12/7/2009 0:00	0.257	0.257	0.157	4.2	268	9.7	7.7		
12/7/2009 0:15	0.253	0.253	0.150	4.2	268	9.7	7.7		
12/7/2009 0:30	0.255	0.255	0.154	4.1	268	9.7	7.7		
12/7/2009 0:45	0.251	0.251	0.147	4.1	268	9.7	7.7		
12/7/2009 1:00	0.258	0.258	0.159	4.1	268	9.7	7.7		
12/7/2009 1:15	0.254	0.254	0.152	4	268	9.8	7.7		
12/7/2009 1:30	0.252	0.252	0.149	4	270	9.7	7.7		
12/7/2009 1:45	0.258	0.258	0.159	4	270	9.7	7.7		
12/7/2009 2:00	0.26	0.26	0.163	4	270	9.8	7.7		
12/7/2009 2:15	0.257	0.257	0.157	3.9	270	9.7	7.7		
12/7/2009 2:30	0.259	0.259	0.161	3.9	270	9.7	7.7		
12/7/2009 2:45	0.255	0.255	0.154	3.9	270	9.7	7.7		
12/7/2009 3:00	0.252	0.252	0.149	3.8	270	9.7	7.7		
12/7/2009 3:15	0.253	0.253	0.150	3.8	270	9.7	7.7		
12/7/2009 3:30	0.252	0.252	0.149	3.8	270	9.7	7.7		
12/7/2009 3:45	0.255	0.255	0.154	3.8	270	9.8	7.7		
12/7/2009 4:00	0.253	0.253	0.150	3.8	270	9.7	7.7		
12/7/2009 4:15	0.251	0.251	0.147	3.8	272	9.7	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/7/2009 4:30	0.25	0.25	0.145	3.8	272	9.7	7.7		
12/7/2009 4:45	0.253	0.253	0.150	3.8	272	9.7	7.7		
12/7/2009 5:00	0.248	0.248	0.142	3.8	272	9.7	7.7		
12/7/2009 5:15	0.254	0.254	0.152	3.8	272	9.8	7.7		
12/7/2009 5:30	0.247	0.247	0.140	3.9	272	9.7	7.7		
12/7/2009 5:45	0.257	0.257	0.157	3.9	272	9.8	7.7		
12/7/2009 6:00	0.252	0.252	0.149	3.9	272	9.7	7.7		
12/7/2009 6:15	0.259	0.259	0.161	4	272	9.7	7.7		
12/7/2009 6:30	0.256	0.256	0.156	4	272	9.7	7.7		
12/7/2009 6:45	0.251	0.251	0.147	4	272	9.7	7.7		
12/7/2009 7:00	0.254	0.254	0.152	4.1	272	9.7	7.7		
12/7/2009 7:15	0.251	0.251	0.147	4.1	272	9.7	7.7		
12/7/2009 7:30	0.251	0.251	0.147	4.1	274	9.7	7.7		
12/7/2009 7:45	0.254	0.254	0.152	4.2	274	9.7	7.7		
12/7/2009 8:00	0.255	0.255	0.154	4.3	274	9.7	7.7		
12/7/2009 8:15	0.251	0.251	0.147	4.3	274	9.7	7.7		
12/7/2009 8:30	0.255	0.255	0.154	4.4	274	9.7	7.7		
12/7/2009 8:45	0.251	0.251	0.147	4.4	274	9.7	7.7		
12/7/2009 9:00	0.25	0.25	0.145	4.5	274	9.7	7.7		
12/7/2009 9:15	0.252	0.252	0.149	4.6	274	9.7	7.7		
12/7/2009 9:30	0.249	0.249	0.143	4.6	274	9.7	7.7		
12/7/2009 9:45	0.252	0.252	0.149	4.7	274	9.7	7.7		
12/7/2009 10:00	0.252	0.252	0.149	4.8	274	9.6	7.7		
12/7/2009 10:15	0.252	0.252	0.149	4.8	276	9.7	7.7		
12/7/2009 10:30	0.251	0.251	0.147	4.9	276	9.6	7.7		
12/7/2009 10:45	0.247	0.247	0.140	5	276	9.7	7.7		
12/7/2009 11:00	0.256	0.256	0.156	5.1	276	9.6	7.7		
12/7/2009 11:15	0.25	0.25	0.145	5.1	276	9.6	7.7		
12/7/2009 11:30	0.246	0.246	0.139	5.2	276	9.6	7.7		
12/7/2009 11:45	0.257	0.257	0.157	5.3	276	9.6	7.8		
12/7/2009 12:00	0.252	0.252	0.149	5.5	276	9.6	7.8		
12/7/2009 12:15	0.247	0.247	0.140	5.6	276	9.6	7.8		
12/7/2009 12:30	0.247	0.247	0.140	5.8	276	9.5	7.8		
12/7/2009 12:45	0.25	0.25	0.145	5.9	278	9.5	7.8		
12/7/2009 13:00	0.253	0.253	0.150	6	278	9.5	7.8		
12/7/2009 13:15	0.248	0.248	0.142	6.1	278	9.5	7.8		
12/7/2009 13:30	0.252	0.252	0.149	6.3	278	9.5	7.8		
12/7/2009 13:45	0.248	0.248	0.142	6.3	278	9.4	7.8		
12/7/2009 14:00	0.257	0.257	0.157	6.4	278	9.4	7.8		
12/7/2009 14:15	0.249	0.249	0.143	6.5	278	9.4	7.8		
12/7/2009 14:30	0.252	0.252	0.149	6.5	278	9.4	7.8		
12/7/2009 14:45	0.254	0.254	0.152	6.6	280	9.4	7.8		14:42
12/7/2009 15:00	0.252	0.252	0.149	6.7	280	9.4	7.8		
12/7/2009 15:15	0.249	0.249	0.143	6.7	280	9.4	7.8		
12/7/2009 15:30	0.25	0.25	0.145	6.7	280	9.4	7.8		
12/7/2009 15:45	0.251	0.251	0.147	6.8	280	9.4	7.8		
12/7/2009 16:00	0.248	0.248	0.142	6.8	280	9.3	7.8		
12/7/2009 16:15	0.253	0.253	0.150	6.8	280	9.3	7.8		
12/7/2009 16:30	0.249	0.249	0.143	6.8	282	9.3	7.8		
12/7/2009 16:45	0.248	0.248	0.142	6.7	282	9.3	7.8		
12/7/2009 17:00	0.25	0.25	0.145	6.7	282	9.3	7.8		
12/7/2009 17:15	0.245	0.245	0.137	6.7	282	9.3	7.8		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/7/2009 17:30	0.253	0.253	0.150	6.6	282	9.3	7.8		
12/7/2009 17:45	0.248	0.248	0.142	6.6	282	9.3	7.7		
12/7/2009 18:00	0.248	0.248	0.142	6.6	282	9.3	7.7		
12/7/2009 18:15	0.248	0.248	0.142	6.6	282	9.3	7.7		
12/7/2009 18:30	0.254	0.254	0.152	6.6	284	9.3	7.7		
12/7/2009 18:45	0.251	0.251	0.147	6.5	284	9.3	7.7		
12/7/2009 19:00	0.248	0.248	0.142	6.5	284	9.3	7.7		
12/7/2009 19:15	0.247	0.247	0.140	6.5	284	9.3	7.7		
12/7/2009 19:30	0.253	0.253	0.150	6.5	284	9.3	7.7		
12/7/2009 19:45	0.257	0.257	0.157	6.5	284	9.3	7.7		
12/7/2009 20:00	0.253	0.253	0.150	6.5	284	9.3	7.7		
12/7/2009 20:15	0.252	0.252	0.149	6.5	284	9.3	7.7		
12/7/2009 20:30	0.248	0.248	0.142	6.4	284	9.3	7.7		
12/7/2009 20:45	0.253	0.253	0.150	6.4	284	9.3	7.7		
12/7/2009 21:00	0.249	0.249	0.143	6.4	284	9.3	7.7		
12/7/2009 21:15	0.253	0.253	0.150	6.4	284	9.3	7.7		
12/7/2009 21:30	0.257	0.257	0.157	6.4	284	9.3	7.7		
12/7/2009 21:45	0.254	0.254	0.152	6.4	284	9.4	7.7		
12/7/2009 22:00	0.246	0.246	0.139	6.4	284	9.4	7.7		
12/7/2009 22:15	0.254	0.254	0.152	6.3	284	9.3	7.7		
12/7/2009 22:30	0.254	0.254	0.152	6.3	284	9.4	7.7		
12/7/2009 22:45	0.251	0.251	0.147	6.3	284	9.4	7.7		
12/7/2009 23:00	0.253	0.253	0.150	6.2	284	9.4	7.7		
12/7/2009 23:15	0.258	0.258	0.159	6.2	284	9.4	7.7		
12/7/2009 23:30	0.253	0.253	0.150	6.2	286	9.4	7.7		
12/7/2009 23:45	0.252	0.252	0.149	6.2	286	9.4	7.7		
12/8/2009 0:00	*0.255*	*0.255*	*0.154*	6.2	286	9.4	7.7	* (38)	
12/8/2009 0:15	*0.257*	*0.257*	*0.157*	6.2	286	9.4	7.7		
12/8/2009 0:30	*0.257*	*0.257*	*0.157*	6.1	286	9.4	7.7		
12/8/2009 0:45	*0.253*	*0.253*	*0.150*	6.1	286	9.4	7.7		
12/8/2009 1:00	*0.254*	*0.254*	*0.152*	6.1	286	9.4	7.7		
12/8/2009 1:15	*0.253*	*0.253*	*0.150*	6.1	286	9.4	7.7		
12/8/2009 1:30	*0.255*	*0.255*	*0.154*	6.1	286	9.4	7.7		
12/8/2009 1:45	*0.255*	*0.255*	*0.154*	6.1	286	9.3	7.7		
12/8/2009 2:00	*0.259*	*0.259*	*0.161*	6.1	286	9.4	7.7		
12/8/2009 2:15	*0.256*	*0.256*	*0.156*	6.1	286	9.3	7.7		
12/8/2009 2:30	*0.253*	*0.253*	*0.150*	6.1	286	9.4	7.7		
12/8/2009 2:45	*0.257*	*0.257*	*0.157*	6.1	288	9.4	7.7		
12/8/2009 3:00	*0.257*	*0.257*	*0.157*	6.1	288	9.3	7.7		
12/8/2009 3:15	*0.258*	*0.258*	*0.159*	6.1	288	9.4	7.7		
12/8/2009 3:30	*0.257*	*0.257*	*0.157*	6	288	9.3	7.7		
12/8/2009 3:45	*0.255*	*0.255*	*0.154*	6	288	9.4	7.7		
12/8/2009 4:00	*0.257*	*0.257*	*0.157*	6	288	9.3	7.7		
12/8/2009 4:15	*0.257*	*0.257*	*0.157*	6	288	9.4	7.7		
12/8/2009 4:30	*0.254*	*0.254*	*0.152*	6	288	9.3	7.7		
12/8/2009 4:45	*0.256*	*0.256*	*0.156*	6	288	9.4	7.7		
12/8/2009 5:00	*0.257*	*0.257*	*0.157*	6	288	9.3	7.7		
12/8/2009 5:15	*0.262*	*0.262*	*0.167*	6.1	288	9.4	7.7		
12/8/2009 5:30	*0.263*	*0.263*	*0.169*	6.1	288	9.3	7.7		
12/8/2009 5:45	*0.255*	*0.255*	*0.154*	6.1	288	9.3	7.7		
12/8/2009 6:00	*0.255*	*0.255*	*0.154*	6.1	288	9.3	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/8/2009 6:15	*0.255*	*0.255*	*0.154*	6.1	290	9.3	7.7		
12/8/2009 6:30	*0.255*	*0.255*	*0.154*	6.1	290	9.3	7.7		
12/8/2009 6:45	*0.262*	*0.262*	*0.167*	6.1	290	9.3	7.7		
12/8/2009 7:00	*0.257*	*0.257*	*0.157*	6.1	290	9.3	7.7		
12/8/2009 7:15	*0.249*	*0.249*	*0.143*	6.1	290	9.3	7.7		
12/8/2009 7:30	*0.253*	*0.253*	*0.150*	6.1	290	9.3	7.7		
12/8/2009 7:45	*0.25*	*0.25*	*0.145*	6.1	290	9.3	7.7		
12/8/2009 8:00	*0.263*	*0.263*	*0.169*	6.1	290	9.3	7.7		
12/8/2009 8:15	*0.25*	*0.25*	*0.145*	6.2	290	9.3	7.7		
12/8/2009 8:30	*0.251*	*0.251*	*0.147*	6.2	290	9.3	7.7		
12/8/2009 8:45	*0.258*	*0.258*	*0.159*	6.2	290	9.3	7.7		
12/8/2009 9:00	*0.259*	*0.259*	*0.161*	6.3	290	9.3	7.7		
12/8/2009 9:15	*0.254*	*0.254*	*0.152*	6.3	290	9.3	7.7		
12/8/2009 9:30	*0.253*	*0.253*	*0.150*	6.3	292	9.3	7.7		
12/8/2009 9:45	*0.254*	*0.254*	*0.152*	6.4	290	9.3	7.8		
12/8/2009 10:00	*0.254*	*0.254*	*0.152*	6.5	292	9.3	7.8		
12/8/2009 10:15	*0.255*	*0.255*	*0.154*	6.5	292	9.3	7.8		
12/8/2009 10:30	*0.254*	*0.254*	*0.152*	6.6	292	9.3	7.8		
12/8/2009 10:45	*0.254*	*0.254*	*0.152*	6.6	292	9.3	7.8		
12/8/2009 11:00	*0.251*	*0.251*	*0.147*	6.7	292	9.3	7.8		
12/8/2009 11:15	*0.256*	*0.256*	*0.156*	6.7	292	9.2	7.8		
12/8/2009 11:30	*0.248*	*0.248*	*0.142*	6.8	292	9.2	7.8		
12/8/2009 11:45	*0.255*	*0.255*	*0.154*	6.8	292	9.2	7.8		
12/8/2009 12:00	*0.253*	*0.253*	*0.150*	6.8	292	9.2	7.8		
12/8/2009 12:15	*0.255*	*0.255*	*0.154*	6.9	290	9.2	7.8		
12/8/2009 12:30	*0.253*	*0.253*	*0.150*	6.9	290	9.2	7.8		
12/8/2009 12:45	*0.255*	*0.255*	*0.154*	7	290	9.2	7.8		
12/8/2009 13:00	*0.252*	*0.252*	*0.149*	7	288	9.2	7.8		
12/8/2009 13:15	*0.257*	*0.257*	*0.157*	7.1	286	9.1	7.8		
12/8/2009 13:30	*0.252*	*0.252*	*0.149*	7.1	286	9.1	7.8		
12/8/2009 13:45	*0.248*	*0.248*	*0.142*	7.2	284	9.1	7.8		
12/8/2009 14:00	*0.26*	*0.26*	*0.163*	7.2	284	9.1	7.8		
12/8/2009 14:15	*0.257*	*0.257*	*0.157*	7.3	282	9.1	7.8		
12/8/2009 14:30	*0.264*	*0.264*	*0.171*	7.4	282	9.1	7.8		
12/8/2009 14:45	*0.265*	*0.265*	*0.173*	7.4	282	9.1	7.8		14:42
12/8/2009 15:00	*0.266*	*0.266*	*0.175*	7.4	280	9	7.8		
12/8/2009 15:15	*0.269*	*0.269*	*0.181*	7.5	280	9	7.8		
12/8/2009 15:30	*0.271*	*0.271*	*0.185*	7.5	280	9	7.8		
12/8/2009 15:45	*0.274*	*0.274*	*0.192*	7.5	282	9	7.8		
12/8/2009 16:00	*0.273*	*0.273*	*0.190*	7.6	282	9	7.8		
12/8/2009 16:15	*0.273*	*0.273*	*0.190*	7.6	282	9	7.8		
12/8/2009 16:30	*0.268*	*0.268*	*0.179*	7.6	282	9	7.8		
12/8/2009 16:45	*0.273*	*0.273*	*0.190*	7.6	280	9	7.8		
12/8/2009 17:00	*0.266*	*0.266*	*0.175*	7.6	282	9	7.8		
12/8/2009 17:15	*0.267*	*0.267*	*0.177*	7.6	282	8.9	7.8		
12/8/2009 17:30	*0.266*	*0.266*	*0.175*	7.7	282	8.9	7.8		
12/8/2009 17:45	*0.27*	*0.27*	*0.183*	7.7	280	8.9	7.8		
12/8/2009 18:00	*0.272*	*0.272*	*0.187*	7.7	280	8.9	7.8		
12/8/2009 18:15	*0.27*	*0.27*	*0.183*	7.7	276	8.9	7.8		
12/8/2009 18:30	*0.28*	*0.28*	*0.206*	7.8	274	8.9	7.8		
12/8/2009 18:45	*0.27*	*0.27*	*0.183*	7.8	270	8.9	7.8		
12/8/2009 19:00	*0.273*	*0.273*	*0.190*	7.8	266	8.9	7.7		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/8/2009 19:15	*0.276*	*0.276*	*0.196*	7.9	264	8.9	7.7		
12/8/2009 19:30	*0.283*	*0.283*	*0.213*	7.9	264	8.9	7.7		
12/8/2009 19:45	*0.278*	*0.278*	*0.201*	8	258	8.9	7.7		
12/8/2009 20:00	*0.292*	*0.292*	*0.236*	8	252	8.8	7.7		
12/8/2009 20:15	*0.302*	*0.302*	*0.266*	8.1	246	8.8	7.7		
12/8/2009 20:30	*0.31*	*0.31*	*0.292*	8.1	240	8.8	7.7		
12/8/2009 20:45	*0.34*	*0.34*	*0.413*	8.1	238	8.8	7.7		
12/8/2009 21:00	*0.392*	*0.392*	*0.756*	8.2	238	8.8	7.7		
12/8/2009 21:15	*0.433*	*0.433*	*1.219*	8.2	234	8.8	7.7		
12/8/2009 21:30	*0.432*	*0.432*	*1.204*	8.3	230	8.8	7.7		
12/8/2009 21:45	*0.459*	*0.459*	*1.649*	8.3	218	8.8	7.7		
12/8/2009 22:00	*0.512*	*0.512*	*3.053*	8.4	208	8.7	7.7		
12/8/2009 22:15	*0.525*	*0.525*	*3.552*	8.5	194	8.7	7.7		
12/8/2009 22:30	*0.642*	*0.642*	*13.845*	8.6	178	8.7	7.7		
12/8/2009 22:45	*0.661*	*0.661*	*17.268*	8.7	172	8.7	7.6		
12/8/2009 23:00	*0.583*	*0.583*	*6.972*	8.8	168	8.7	7.7		
12/8/2009 23:15	*0.585*	*0.585*	*7.136*	8.9	158	8.7	7.7		
12/8/2009 23:30	*0.582*	*0.582*	*6.891*	8.9	152	8.7	7.6		
12/8/2009 23:45	*0.566*	*0.566*	*5.721*	9	148	8.7	7.6		
12/9/2009 0:00	*0.586*	*0.586*	*7.219*	9.1	144	8.6	7.6		
12/9/2009 0:15	*0.366*	*0.366*	*0.559*	9.1	144	8.6	7.6		
12/9/2009 0:30	*0.086*	*0.086*	*0.022*	9.2	138	8.5	7.6		
12/9/2009 0:45	*0.231*	*0.231*	*0.116*	9.3	132	8.7	7.5		
12/9/2009 1:00	*0.29*	*0.29*	*0.231*	9.3	126	8.7	7.5		
12/9/2009 1:15	*0.329*	*0.329*	*0.364*	9.4	120	8.7	7.5		
12/9/2009 1:30	*0.365*	*0.365*	*0.553*	9.5	116	8.7	7.5		
12/9/2009 1:45	*0.407*	*0.407*	*0.901*	9.5	110	8.6	7.4		
12/9/2009 2:00	*0.531*	*0.531*	*3.808*	9.6	102	8.6	7.4		
12/9/2009 2:15	*0.473*	*0.473*	*1.940*	9.6	98	8.9	7.4		
12/9/2009 2:30	*0.766*	*0.766*	*58.543*	9.7	94	9.5	7.4		
12/9/2009 2:45	*0.658*	*0.658*	*16.676*	9.7	92	9.5	7.3		
12/9/2009 3:00	*0.611*	*0.611*	*9.655*	9.7	92	9.6	7.3		
12/9/2009 3:15	*0.779*	*0.779*	*68.097*	9.8	92	14	7.3		
12/9/2009 3:30	*0.372*	*0.372*	*0.600*	9.9	92	10.4	7.3		
12/9/2009 3:45	*0.21*	*0.21*	*0.091*	9.9	92	10.3	7.3		
12/9/2009 4:00	*0.147*	*0.147*	*0.044*	9.9	94	10.4	7.3		
12/9/2009 4:15	*0.103*	*0.103*	*0.026*	10	94	10.3	7.4		
12/9/2009 4:30	*0.112*	*0.112*	*0.029*	10	94	10.2	7.4		
12/9/2009 4:45	*0.095*	*0.095*	*0.024*	10	94	10.2	7.3		
12/9/2009 5:00	*0.087*	*0.087*	*0.022*	10.1	94	10.1	7.3		
12/9/2009 5:15	*0.095*	*0.095*	*0.024*	10.1	96	10.1	7.3		
12/9/2009 5:30	*0.105*	*0.105*	*0.027*	10.1	96	10.1	7.4		
12/9/2009 5:45	*0.09*	*0.09*	*0.023*	10.1	96	10.1	7.3		
12/9/2009 6:00	*0.109*	*0.109*	*0.028*	10.2	96	10.1	7.3		
12/9/2009 6:15	*0.078*	*0.078*	*0.020*	10.2	96	10.1	7.3		
12/9/2009 6:30	*0.085*	*0.085*	*0.021*	10.2	96	10.1	7.3		
12/9/2009 6:45	*0.084*	*0.084*	*0.021*	10.1	98	10.1	7.3		
12/9/2009 7:00	*0.078*	*0.078*	*0.020*	10.1	98	10.1	7.3		
12/9/2009 7:15	*0.074*	*0.074*	*0.019*	10.1	98	10.1	7.3		
12/9/2009 7:30	*0.065*	*0.065*	*0.017*	10	100	10.1	7.3		
12/9/2009 7:45	*0.059*	*0.059*	*0.016*	10	100	10.1	7.3		
12/9/2009 8:00	*0.067*	*0.067*	*0.017*	10	100	10.2	7.3		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/9/2009 8:15	*0.121*	*0.121*	*0.032*	9.9	102	10.1	7.3		
12/9/2009 8:30	*0.049*	*0.049*	*0.014*	9.9	102	10.2	7.3		
12/9/2009 8:45	*0.043*	*0.043*	*0.013*	9.9	102	10.1	7.3		
12/9/2009 9:00	*0.046*	*0.046*	*0.014*	9.8	104	10.2	7.3		
12/9/2009 9:15	*0.052*	*0.052*	*0.015*	9.8	104	10.2	7.3		
12/9/2009 9:30	*0.05*	*0.05*	*0.014*	9.8	106	10.2	7.3		
12/9/2009 9:45	*0.063*	*0.063*	*0.016*	9.7	106	10.2	7.3		
12/9/2009 10:00	*0.056*	*0.056*	*0.015*	9.7	106	10.2	7.4		
12/9/2009 10:15	*0.054*	*0.054*	*0.015*	9.7	108	10.2	7.4		
12/9/2009 10:30	*0.051*	*0.051*	*0.014*	9.7	108	10.1	7.4		
12/9/2009 10:45	*0.047*	*0.047*	*0.014*	9.7	110	10.1	7.4		
12/9/2009 11:00	*0.046*	*0.046*	*0.014*	9.7	110	10.1	7.4		
12/9/2009 11:15	*0.06*	*0.06*	*0.016*	9.8	110	10.1	7.4		
12/9/2009 11:30	*0.101*	*0.101*	*0.026*	9.8	112	10.1	7.4		
12/9/2009 11:45	*0.076*	*0.076*	*0.019*	9.9	112	10.1	7.4		
12/9/2009 12:00	*0.064*	*0.064*	*0.017*	9.9	114	10.1	7.4		
12/9/2009 12:15	*0.096*	*0.096*	*0.024*	9.9	114	10.1	7.4		
12/9/2009 12:30	*0.083*	*0.083*	*0.021*	9.9	116	10.1	7.4		
12/9/2009 12:45	*0.089*	*0.089*	*0.022*	9.9	116	10.1	7.4		
12/9/2009 13:00	*0.139*	*0.139*	*0.040*	9.9	118	10	7.4		
12/9/2009 13:15	*0.125*	*0.125*	*0.034*	9.9	118	10.1	7.4		
12/9/2009 13:30	*0.158*	*0.158*	*0.050*	9.9	118	10.1	7.4		
12/9/2009 13:45	*0.105*	*0.105*	*0.027*	9.9	120	10.1	7.4		
12/9/2009 14:00	*0.114*	*0.114*	*0.030*	9.9	120	10.1	7.4		
12/9/2009 14:15	*0.205*	*0.205*	*0.086*	9.8	120	10.1	7.4		
12/9/2009 14:30	*0.073*	*0.073*	*0.019*	9.8	122	10.1	7.4		
12/9/2009 14:45	*0.185*	*0.185*	*0.068*	9.8	122	10.1	7.4		14:42
12/9/2009 15:00	*0.147*	*0.147*	*0.044*	9.7	124	10.1	7.4		
12/9/2009 15:15	*0.092*	*0.092*	*0.023*	9.6	124	10.2	7.4		
12/9/2009 15:30	*0.102*	*0.102*	*0.026*	9.5	124	10.2	7.4		
12/9/2009 15:45	*0.167*	*0.167*	*0.055*	9.5	126	10.2	7.4		
12/9/2009 16:00	*0.191*	*0.191*	*0.073*	9.4	126	10.2	7.4		
12/9/2009 16:15	*0.118*	*0.118*	*0.031*	9.4	126	10.2	7.4		
12/9/2009 16:30	*0.12*	*0.12*	*0.032*	9.3	128	10.2	7.4		
12/9/2009 16:45	*0.097*	*0.097*	*0.024*	9.2	128	10.2	7.4		
12/9/2009 17:00	*0.289*	*0.289*	*0.228*	9.1	128	10.3	7.4		
12/9/2009 17:15	*0.141*	*0.141*	*0.041*	9.1	130	10.3	7.4		
12/9/2009 17:30	*0.348*	*0.348*	*0.454*	9	130	10.3	7.4		
12/9/2009 17:45	*0.291*	*0.291*	*0.234*	8.9	132	10.3	7.4		
12/9/2009 18:00	*0.242*	*0.242*	*0.132*	8.8	132	10.3	7.4		
12/9/2009 18:15	*0.269*	*0.269*	*0.181*	8.7	132	10.4	7.4		
12/9/2009 18:30	*0.344*	*0.344*	*0.433*	8.6	134	10.4	7.4		
12/9/2009 18:45	*0.357*	*0.357*	*0.504*	8.5	134	10.4	7.4		
12/9/2009 19:00	*0.25*	*0.25*	*0.145*	8.5	134	10.4	7.4		
12/9/2009 19:15	*0.292*	*0.292*	*0.236*	8.4	136	10.4	7.4		
12/9/2009 19:30	*0.238*	*0.238*	*0.126*	8.3	136	10.5	7.4		
12/9/2009 19:45	*0.303*	*0.303*	*0.269*	8.2	136	10.5	7.4		
12/9/2009 20:00	*0.156*	*0.156*	*0.049*	8.2	136	10.5	7.4		
12/9/2009 20:15	*0.196*	*0.196*	*0.077*	8.1	138	10.5	7.4		
12/9/2009 20:30	*0.341*	*0.341*	*0.418*	8	138	10.5	7.4		
12/9/2009 20:45	*0.218*	*0.218*	*0.100*	7.9	138	10.5	7.4		
12/9/2009 21:00	*0.396*	*0.396*	*0.793*	7.9	140	10.6	7.4		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/9/2009 21:15	*0.162*	*0.162*	*0.052*	7.8	140	10.6	7.4		
12/9/2009 21:30	*0.208*	*0.208*	*0.089*	7.7	140	10.6	7.4		
12/9/2009 21:45	*0.166*	*0.166*	*0.055*	7.7	142	10.6	7.4		
12/9/2009 22:00	*0.179*	*0.179*	*0.064*	7.6	142	10.6	7.4		
12/9/2009 22:15	*0.134*	*0.134*	*0.038*	7.6	142	10.6	7.4		
12/9/2009 22:30	*0.105*	*0.105*	*0.027*	7.5	144	10.7	7.4		
12/9/2009 22:45	*0.29*	*0.29*	*0.231*	7.4	144	10.7	7.4		
12/9/2009 23:00	*0.186*	*0.186*	*0.069*	7.4	144	10.7	7.4		
12/9/2009 23:15	*0.121*	*0.121*	*0.032*	7.3	146	10.7	7.5		
12/9/2009 23:30	*0.285*	*0.285*	*0.218*	7.2	146	10.7	7.4		
12/9/2009 23:45	*0.321*	*0.321*	*0.331*	7.1	146	10.7	7.5		
12/10/2009 0:00	*0.322*	*0.322*	*0.335*	7	146	10.8	7.5		
12/10/2009 0:15	*0.164*	*0.164*	*0.053*	7	148	10.8	7.5		
12/10/2009 0:30	*0.351*	*0.351*	*0.470*	6.9	148	10.8	7.5		
12/10/2009 0:45	*0.275*	*0.275*	*0.194*	6.8	148	10.8	7.5		
12/10/2009 1:00	*0.217*	*0.217*	*0.099*	6.8	150	10.8	7.5		
12/10/2009 1:15	*0.122*	*0.122*	*0.033*	6.7	150	10.9	7.5		
12/10/2009 1:30	*0.253*	*0.253*	*0.150*	6.6	150	10.9	7.5		
12/10/2009 1:45	*0.33*	*0.33*	*0.368*	6.5	152	10.9	7.5		
12/10/2009 2:00	*0.105*	*0.105*	*0.027*	6.5	152	10.9	7.5		
12/10/2009 2:15	*0.347*	*0.347*	*0.448*	6.4	152	10.9	7.5		
12/10/2009 2:30	*0.301*	*0.301*	*0.263*	6.3	154	10.9	7.5		
12/10/2009 2:45	*0.163*	*0.163*	*0.053*	6.3	154	11	7.5		
12/10/2009 3:00	*0.124*	*0.124*	*0.034*	6.2	154	11	7.5		
12/10/2009 3:15	*0.167*	*0.167*	*0.055*	6.1	156	11	7.5		
12/10/2009 3:30	*0.1*	*0.1*	*0.025*	6.1	156	11	7.5		
12/10/2009 3:45	*0.288*	*0.288*	*0.226*	6	156	11	7.5		
12/10/2009 4:00	*0.157*	*0.157*	*0.049*	6	156	11	7.5		
12/10/2009 4:15	*0.08*	*0.08*	*0.020*	5.9	158	11	7.5		
12/10/2009 4:30	*0.273*	*0.273*	*0.190*	5.8	158	11.1	7.5		
12/10/2009 4:45	*0.163*	*0.163*	*0.053*	5.8	158	11.1	7.5		
12/10/2009 5:00	*0.072*	*0.072*	*0.018*	5.7	160	11.1	7.5		
12/10/2009 5:15	*0.07*	*0.07*	*0.018*	5.7	160	11.1	7.5		
12/10/2009 5:30	*0.119*	*0.119*	*0.032*	5.6	160	11.1	7.5		
12/10/2009 5:45	*0.119*	*0.119*	*0.032*	5.5	160	11.1	7.5		
12/10/2009 6:00	*0.213*	*0.213*	*0.094*	5.5	162	11.2	7.5		
12/10/2009 6:15	*0.107*	*0.107*	*0.028*	5.4	162	11.2	7.5		
12/10/2009 6:30	*0.069*	*0.069*	*0.018*	5.4	162	11.2	7.5		
12/10/2009 6:45	*0.199*	*0.199*	*0.080*	5.3	164	11.2	7.5		
12/10/2009 7:00	*0.131*	*0.131*	*0.036*	5.3	164	11.2	7.5		
12/10/2009 7:15	*0.086*	*0.086*	*0.022*	5.2	164	11.2	7.5		
12/10/2009 7:30	*0.11*	*0.11*	*0.028*	5.2	164	11.2	7.5		
12/10/2009 7:45	*0.079*	*0.079*	*0.020*	5.1	166	11.3	7.5		
12/10/2009 8:00	*0.079*	*0.079*	*0.020*	5.1	166	11.2	7.5		
12/10/2009 8:15	*0.073*	*0.073*	*0.019*	5.1	168	11.3	7.5		
12/10/2009 8:30	*0.153*	*0.153*	*0.047*	5.1	168	11.3	7.5		
12/10/2009 8:45	*0.087*	*0.087*	*0.022*	5	168	11.3	7.5		
12/10/2009 9:00	*0.082*	*0.082*	*0.021*	5	168	11.3	7.5		
12/10/2009 9:15	*0.084*	*0.084*	*0.021*	5	170	11.3	7.5		
12/10/2009 9:30	*0.089*	*0.089*	*0.022*	5	170	11.3	7.5		
12/10/2009 9:45	*0.085*	*0.085*	*0.021*	5	170	11.3	7.5		
12/10/2009 10:00	*0.079*	*0.079*	*0.020*	5	170	11.3	7.5		

Table 2: Indian Fork field parameter data

ISCO data

	Level (m) original data	Level (m) edited * (1)	Flow (m3/s) * (2)	Temp (°C)	SpC (uS/cm	D.O (mg/l)	pH	Notes	Water sample time sampled
12/10/2009 10:15	*0.082*	*0.082*	*0.021*	5	172	11.3	7.5		
12/10/2009 10:30	*0.076*	*0.076*	*0.019*	5	172	11.3	7.5		
12/10/2009 10:45	*0.081*	*0.081*	*0.020*	5	172	11.3	7.5		
12/10/2009 11:00	*0.085*	*0.085*	*0.021*	5	172	11.3	7.5		

Notes:

(1) Questionable data is *italicized* and edited data is **bolded**
(2) Flow calculated using: e^((y-0.416)/0.086)
(3) Regular daily sample at 15:36
(4) Field calibration, 9/4 to 9/11 increased all by .02m
(5) SpC was 728 b/c of dilution gaging
(6) Averaged preceding and proceeding values
(7) Level: Field measurement .329m (.12 difference), SpC data not recorded (field record: 243)
(8) Correct to here, have field measurements, but still questionable
(9) Values should be higher based on field observations
(10) Visit to field site, lots of leaves around probe (level: 0.03 difference)
(11) Mid-1/3 between field measurements (so, .04 m difference)
(12) Last 1/3 between field measurements, add .05
(13) Level: Field measurement .278 (.05m difference), Averaged pre- and pro-ceeding values
(14) SpC: Peculiar readings
(15) All data recorded as 0, field measurement,
(16) No data recorded, field measurement
(17) Data not recorded, averaged
(18) Field measurement 0.420m
(19) Level measurement recorded as 0, values averaged
(20) Values recorded as zero
(21) SpC values are odd
(22) Odd SpC values
(23) Start adjustment, subtract 0.01
(24) -0.02
(25) -0.03
(26) -0.04
(27) Finish adjustment, even though corrected, still questionable b/c there is no starting measurement
(28) Field measurement 0.247m, cleaned probe
(29) No data recorded, averages estimated
(30) SpC: field measurement: 326 uS/cm
(31) No data recorded, Level: field measurement .250
(32) Level: add .016
(33) Difference 0.016 m
(34) Big jump in data here
(35) All data recorded as 0, Level: averaged pre- and proceeding values
(36) All data recorded as 0
(37) Recalibrated probe, some measurements odd, like level (0.1672m), Temp (13.3), DO (9.1)
(38) Huge storm took out field equipment and also New River gaging station, data after here bad b/c of it

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