WATER QUALITY SURVEY SUMMARY OF THE RIO NUTRIA AND RIO PESCADO WATERSHEDS ABOVE AND WITHIN ZUNI PUEBLO

April – November 2004

Monitoring and Assessment Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

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Errata update May 2010: The original version of this report contained incorrect information regarding water quality standards designations for the Rio Nutria. Changes have been made to pages 1, 2 and 5.

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April – November 2004
Principal Investigators and Authors: Doug Eib, Shann Stringer, Seva Joseph

INTRODUCTION

The Zuni Watershed is located in the southern portion of the Colorado plateau physiographic province in western New Mexico. The major drainage of the watershed is the Zuni River, which is a tributary to the Little Colorado River, which it joins in eastern Arizona. The Zuni watershed is 2115 mi^2 above the Arizona border and approximately 990 mi^2 of that lie within the boundaries of Zuni Pueblo. Principal tributaries of the Zuni River are the Rio Pescado and Rio Nutria. Flow is intermittent in the Zuni River, Rio Pescado and Rio Nutria outside the perennial headwaters in the Zuni mountains. [Most] ~~T~~tributaries to these systems are ephemeral or intermittent and runoff results from summer convective storms, snowmelt and rainfall. Land ownership in the western watershed is predominately Zuni Pueblo, with small inholdings of private land. The eastern watershed is also owned mostly by the Zuni Pueblo with tracts of private and Forest Service land in the upper Rio Nutria and Tampico Draw subwatersheds. The upper reaches of the Zuni watershed are located in Omerik Ecoregion 23e (Arizona/New Mexico Mountains) while the lower reaches are in Ecoregion 22j (Arizona/New Mexico Plateau). Elevations within the study area ranged from 6322 ft at Plumasano Wash to 7227 ft at Tampico Draw above the Rio Nutria.

From April 6 to November 3, 2004, the Monitoring and Assessment (MAS) section of the Surface Water Quality Bureau (SWQB) of the New Mexico Environment Department conducted a water quality survey of the Zuni Watershed. This included Tampico Draw, the Rio Nutria, the Rio Pescado within Zuni Pueblo Boundaries, the Zuni River and Plumasano Wash. Groundwater used for human and livestock consumption was tested at the surface of Anthony Hooee and Upper Pescado Springs (within Zuni Pueblo). The recently constructed wetlands below Zuni Village were also monitored. The survey consisted of seven sampling events for water chemistry. Inventories of habitat, stream channel morphology and substrate, and benthic macroinvertebrates were also made to supplement water chemistry data in evaluating the watershed. The survey was funded under section 104(b)(3) of the Clean Water Act.

NEW MEXICO WATER QUALITY STANDARDS

Because the majority of the Zuni Watershed lies within the boundaries of Zuni Pueblo, New Mexico Water Quality Standards apply only to the upper Rio Nutria subwatershed. At the time of the survey, the waters within the upper Rio Nutria subwatershed were not included as classified waters in the NM WQS.

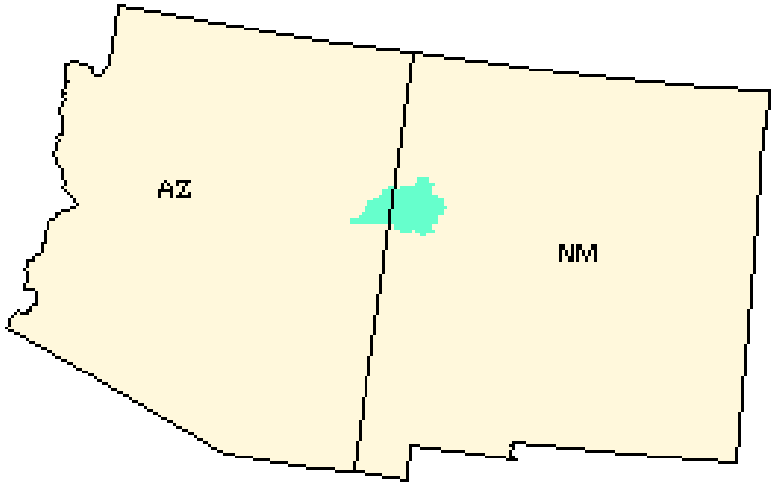


Figure 1. Location of Zuni Watershed

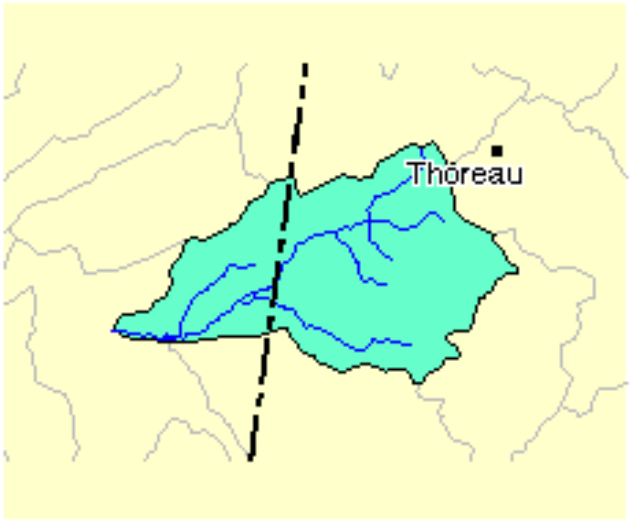


Figure 2. Zuni Watershed

The Rio Nutria (Zuni Pueblo Boundary to Tampico Draw), ~~currently is covered by WQS specified within Section 20.6.4.97 NMAC, Ephemeral Waters, and~~ the Tampico Draw and Rio Nutria above Tampico Draw are [currently] covered by WQS specified within Section 20.6.4.99 NMAC, Perennial Waters. Designated uses for these waters include livestock watering, wildlife habitat, secondary contact, and ~~either limited aquatic life (20.6.4.97 NMAC) or~~ aquatic life (20.6.4.99 NMAC).

METHODS

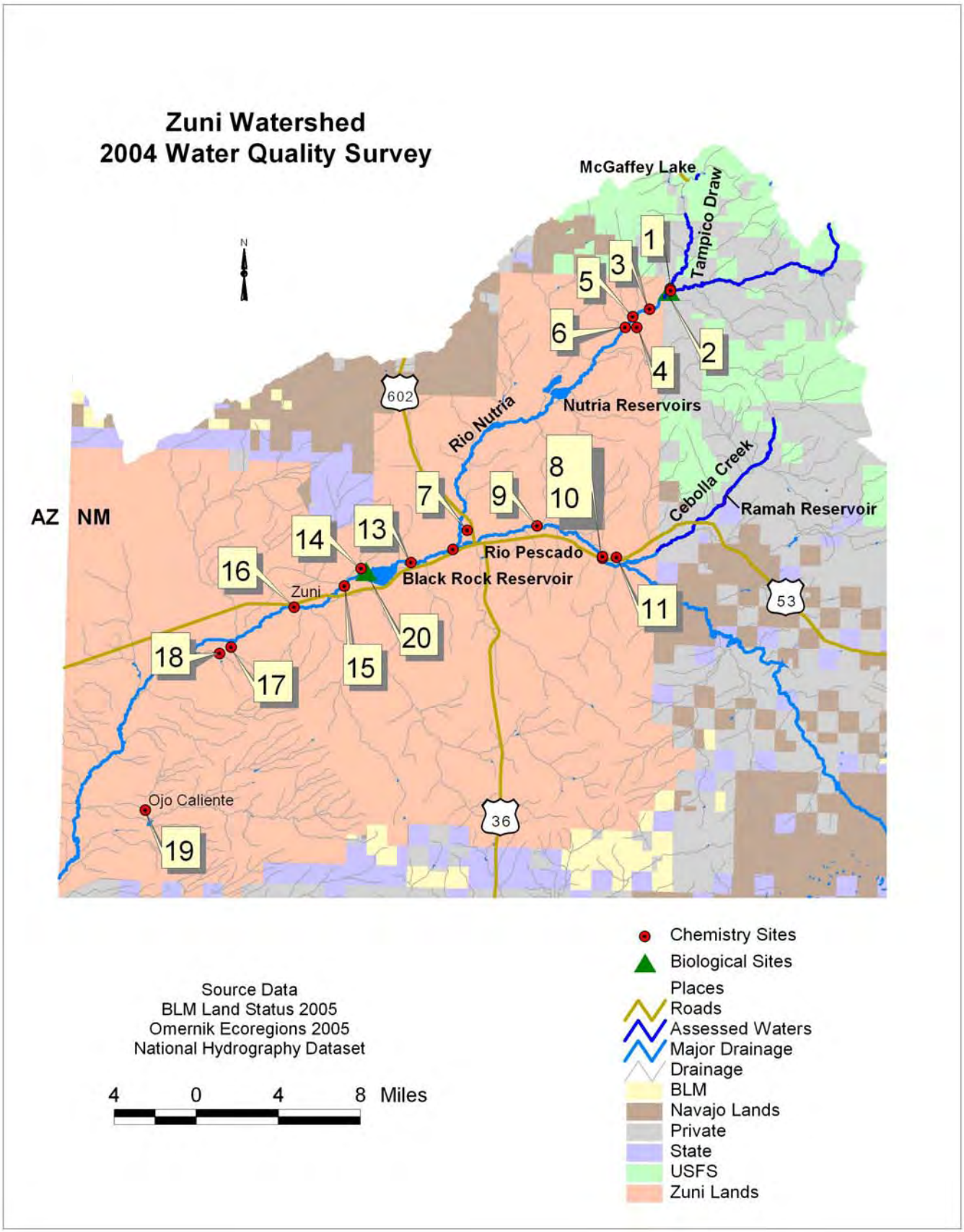
Methods for water sampling were in accordance with the United States Environmental Protection Agency (USEPA) approved Quality Assurance Project Plan for Water Pollution Programs (SWQB QAPP; NMED, 2004). Benthic macroinvertebrate and fish sampling and analysis methods were in accordance with EPA's Rapid Bioassessment Protocols for use in wadeable streams and rivers (Barbour et. al., 1999) and the SWQB QAPP. Water Chemistry (nutrients, anions-cations, metals) along with accompanying physical measurements (temperature, pH, conductivity, turbidity, flow and dissolved oxygen) were taken each time sampling stations were visited and flowing water was available to sample. Other samples, such as organics, radionuclides and bacteria were collected less frequently.

A list of the sampling stations, used in the survey is provided in Table 1, and a map showing the location of the sampling stations is presented in Figure 3, on the following page.

Table 1. Stations used in 2004 Zuni Watershed Survey.
C = Chemistry; S = Sonde; T = Thermograph; M = Macroinvertebrates

Station Number	STORET ID	Station Name	Parameter(s)
1	75Tampic000.1	Tampico Draw above Rio Nutria	C, S, T
2	75RNutri030.2	Rio Nutria above Tampico Draw	M
3	75RNutri028.0	Rio Nutria 30 m above USGS Gage	C, T
4	75RNutri025.2	Rio Nutria above Upper Nutria Reservoir	C
5	75UNutriResSh	Upper Nutria Diversion Reservoir	C
6	75RNutri024.7	Rio Nutria at Bridge to upper village	C
7	75RNutri001.3	Anthony Hooee Spring	C
8	75RPesca012.8	Rio Pescado at Hwy 53 Bridge	C, S, T
9	75RPesca006.5	Rio Pescado at BIA road Z-7	C
10	75RPesca012.7	Upper Pescado Spring at pipeline discharge	C
11	75RPesca012.9	Upper Pescado Spring in east pond	C
12	75ZuniRi047.5	Zuni River below confluence Rio Pescado and Rio Nutria	C
13	75ZuniRi044.0	Zuni River at USGS Gage at BIA road Z-4	C
14	75ZuniRi040.5	Zuni River below Black Rock Reservoir	S, M
15	75ZuniRi040.0	Unnamed Arroyo below Black Rock dip vat	C
16	75ZuniRi038.2	Zuni River above Eustace Reservoir	C
17	75ZuniRi033.6	Zuni River at Pia Mesa Road	C
18	75ZuniRi027.8	Constructed Wetlands at pipeline inflow	C
19	75ZuniRi026.4	Constructed Wetlands at west pond	C
20	75Plumas005.1	Plumasano Wash below dump	C

Figure 3. Sampling Stations used in 2004 Zuni Watershed Survey



RESULTS

STREAM CHEMISTRY

Sample Sites outside Zuni Pueblo

Comparison of survey water chemistry data for sample sites outside of Zuni Pueblo boundaries revealed only one exceedence of New Mexico Water Quality Standards (*State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 NMAC as amended through February 16, 2006)* criteria:

Rio Nutria (Zuni Pueblo bnd to Tampico Draw)

Standards Segment:	20.6.4.99 (Note: ~~Although this segment was listed as ephemeral,~~ flow was observed during all visits during the survey, as were Zuni Bluehead Sucker. In addition, thermograph data (see below) show that water temperatures never exceeded 20ºC.An existing use of Coldwater Aquatic Life was used for assessment purposes).
STORET ID:	75RNutri030.2
Location:	Rio Nutria above Tampico Draw
Designated/Existing Use:	Coldwater Aquatic Life

Dissolved Oxygen
Date: 5/3/2004

Exceeds:	Analyte:	Less Than:	Result:	Standard:	Units:
Yes	Dissolved Oxygen	No	2.93	6	mg/L

Summaries of field and laboratory data for survey stations above Zuni Pueblo lands appear in appendices A1 and A2.

Sample Sites within Zuni Pueblo

New Mexico Water Quality Standards do not apply to waters within Zuni Pueblo. Summaries of both field and laboratory data are given in appendices B1 and B2.

RIO NUTRIA MERCURY LEVELS

The Rio Nutria above Zuni Pueblo appeared on the State of New Mexico 2002-2004 and 2004-2006 303(d) lists as partially supporting the designated use of Warmwater Fishery (now Warmwater Aquatic Life) for this segment due to 4 exceedences of 22 data points of the chronic aquatic life criterion for total mercury according to USGS data from gage 9386900 (Sampling Station 3). During the 2004 survey, mercury was not detected in samples collected from this station using either EPA method 241.5 or 1665. This information will justify delisting this segment in the 2006-2008 303(d) list.

CONSTRUCTED WETLANDS

The constructed wetlands below the village of Zuni were monitored during this study to obtain baseline data for purposes of evaluating their efficacy in reducing nutrients and total and dissolved solids in the untreated sewage they receive. These results are summarized in table 2.

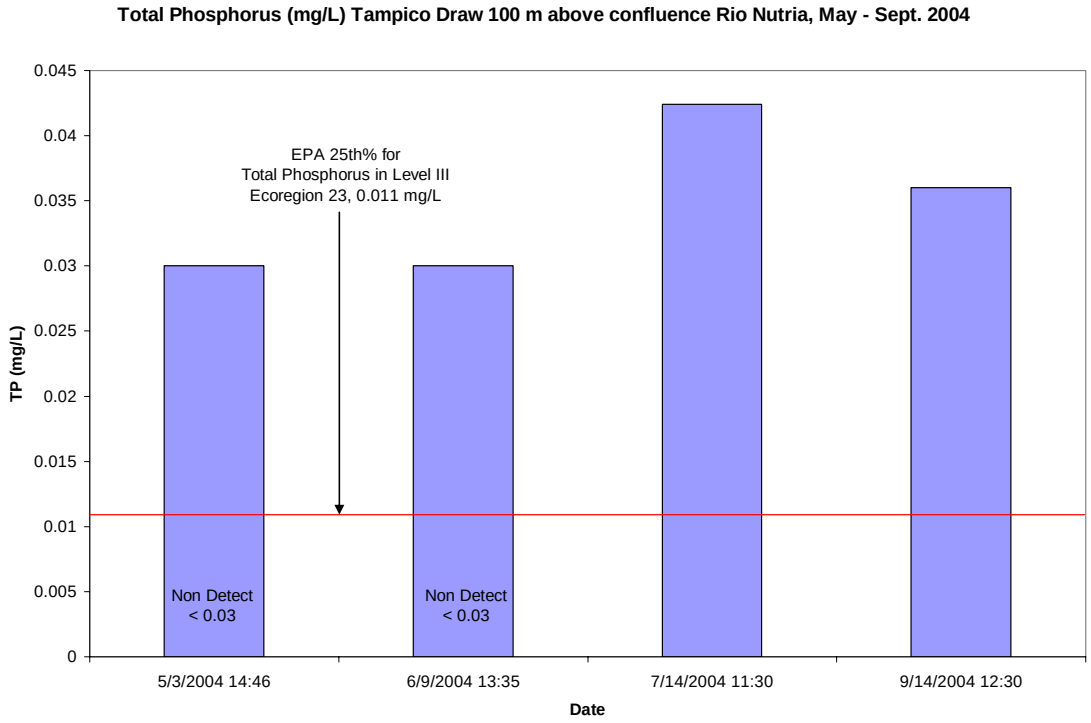
Table 2. Data from Constructed Wetlands

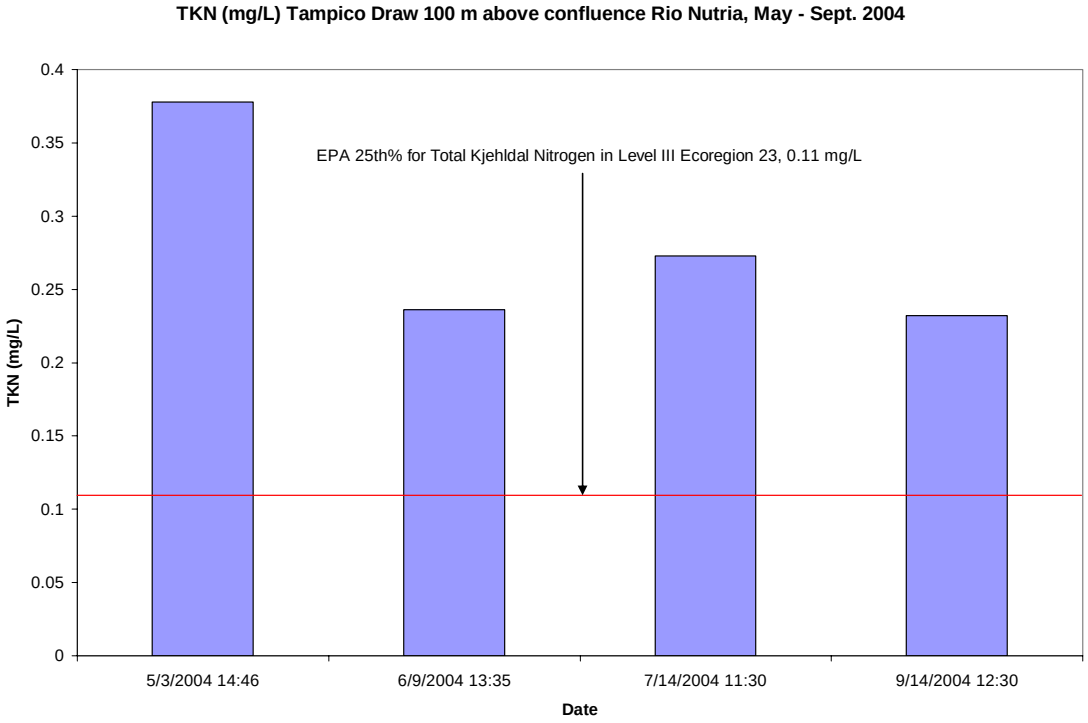
Date and Time	Analyte	Pipeline Inflow	West Pond
4/6/2004 4:30 PM	Phosphorus		2.91 mg/L
	Ammonia		11.6 mg/L
	TKN		20.5 mg/L
	TDS		1100 mg/L
	TSS		21 mg/L
	pH		7.92
	Turbidity		46.5 NTU
5/4/2004 2:10 PM	Phosphorus		4.9 mg/L
	Ammonia		9.51 mg/L
	TKN		3.65 mg/L
	TDS		1260 mg/L
	TSS		174 mg/L
	pH		8.19
	Dissolved Oxygen		2.21 mg/L
	Turbidity		420 NTU
7/14/2004 2:50 PM	Phosphorus		3.88 mg/L
	Ammonia		0.731 mg/L
	TKN		30 mg/L
	TDS		740 mg/L
	TSS		123 mg/L
	pH		8.66
	Dissolved Oxygen		17.3 mg/L
	Turbidity		260 NTU
11/3/2004 9:30 AM	Phosphorus	4.38 mg/L	1.83 mg/L
	Ammonia	21.6 mg/L	3.37 mg/L
	TKN	39.5 mg/L	16.3 mg/L
	TDS	990 mg/L	1100 mg/L
	TSS	28 mg/L	40 mg/L
	pH	6.59	7.47
	Dissolved Oxygen	3.95 mg/L	13.33 mg/L
	Turbidity	254 NTU	81.9 NTU

NUTRIENT DATA

SAMPLING SITES ABOVE ZUNI PUEBLO

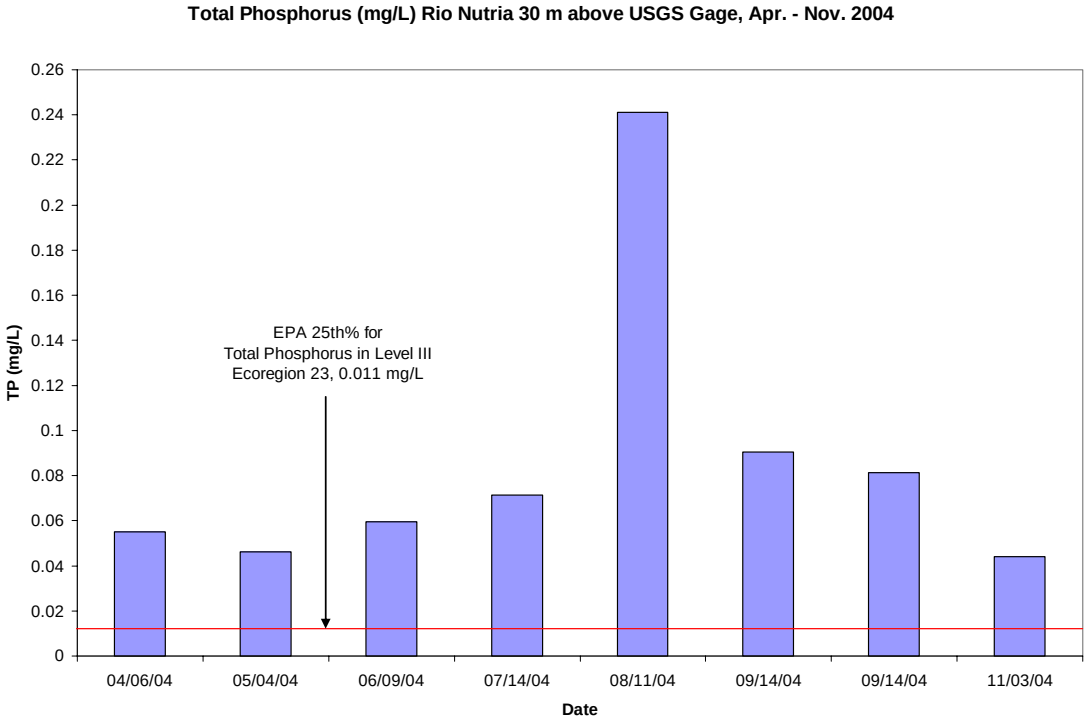
TAMPICO DRAW

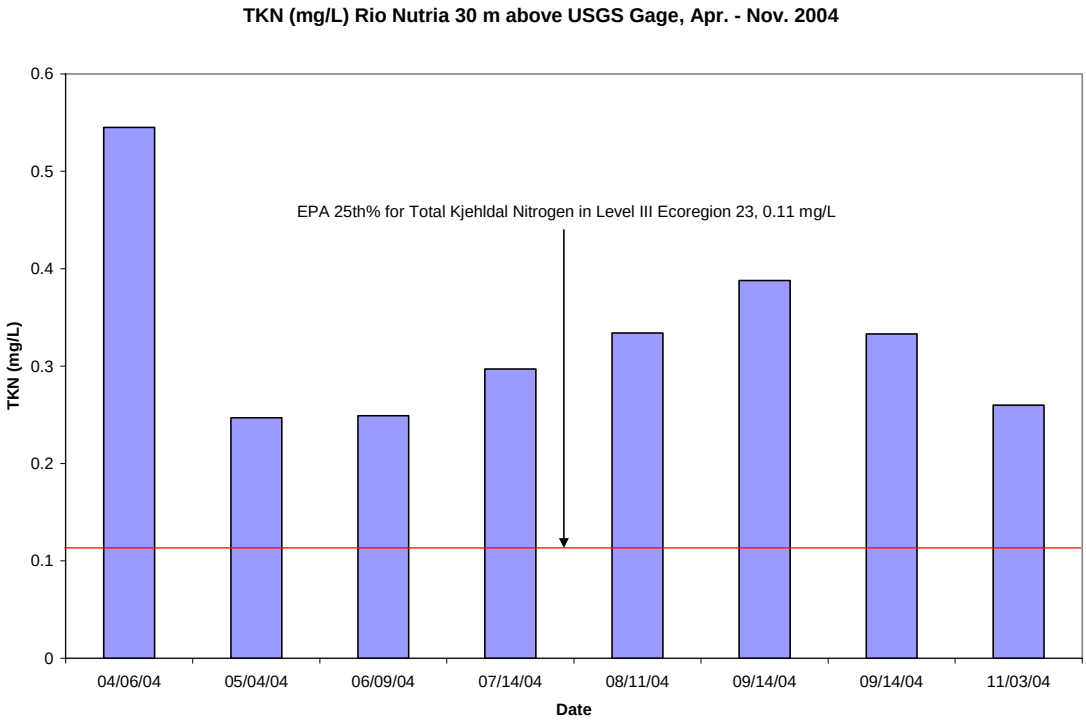




SAMPLING SITES WITHIN ZUNI PUEBLO

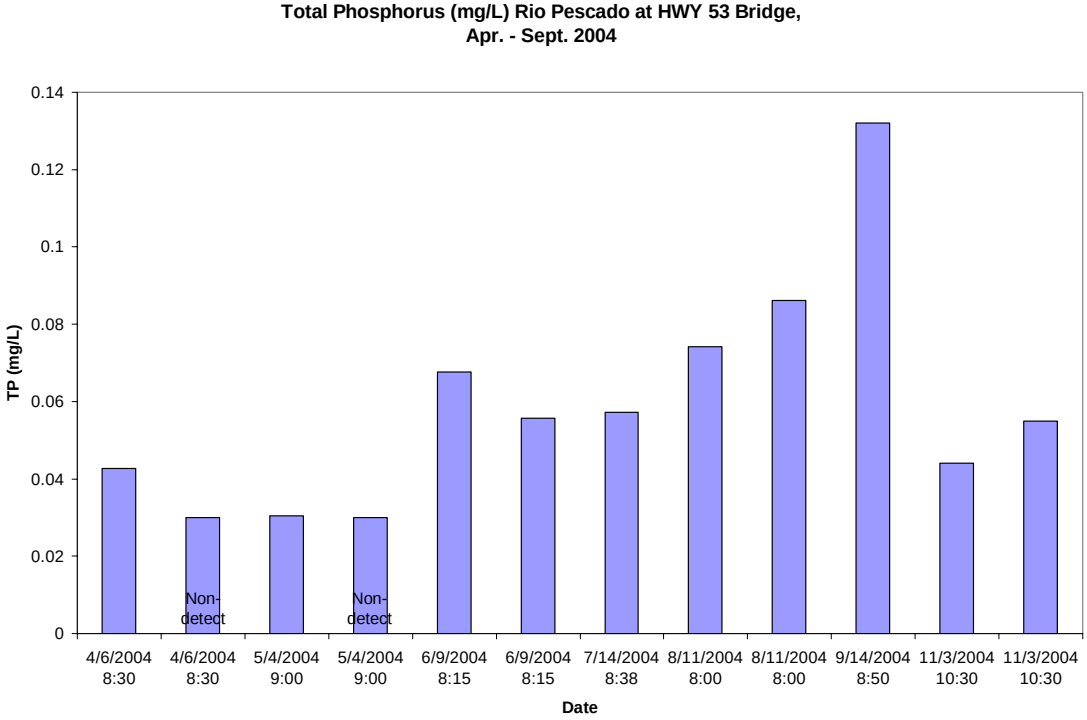
RIO NUTRIA



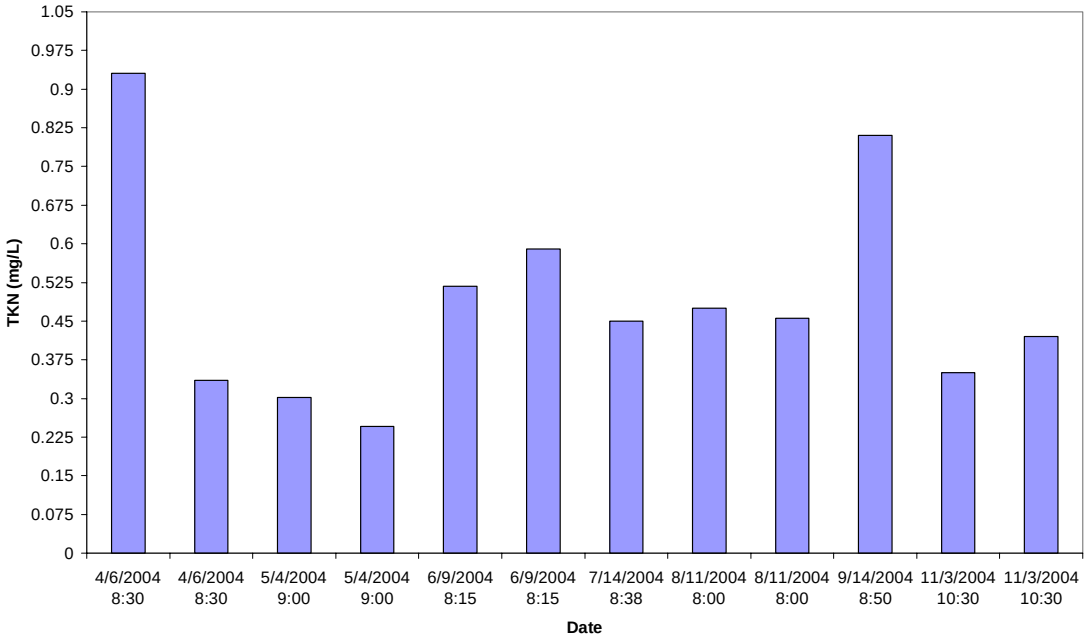


RIO PESCADO

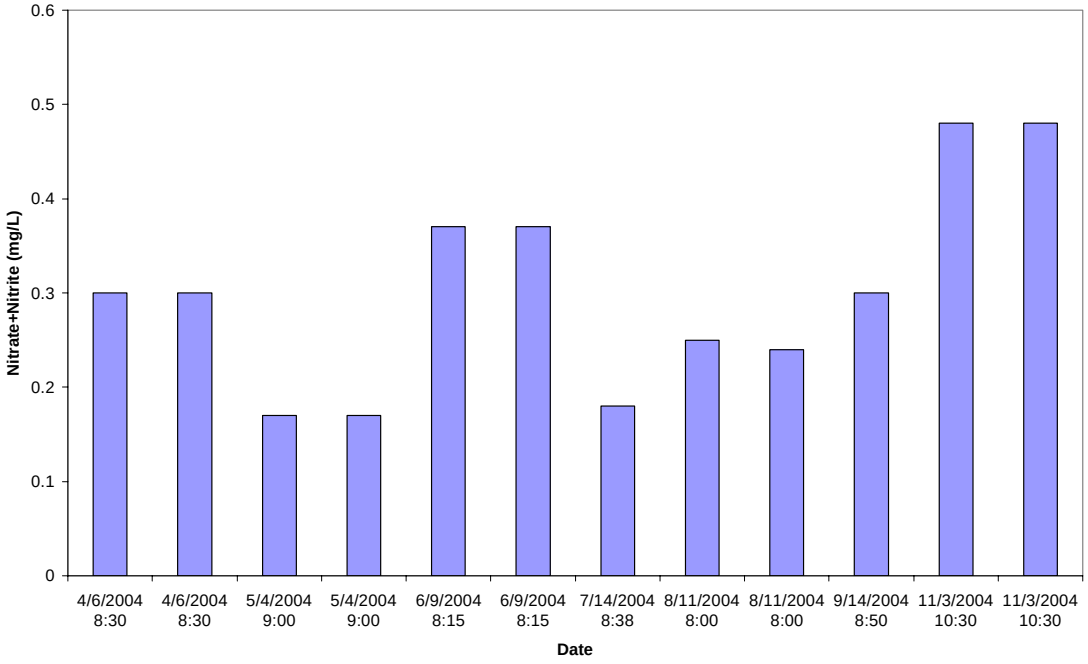
Total Phosphorus ranged from 0.031 to 0.132 mg/L with a mean and median of 0.511 and 0.057 mg/L, respectively.

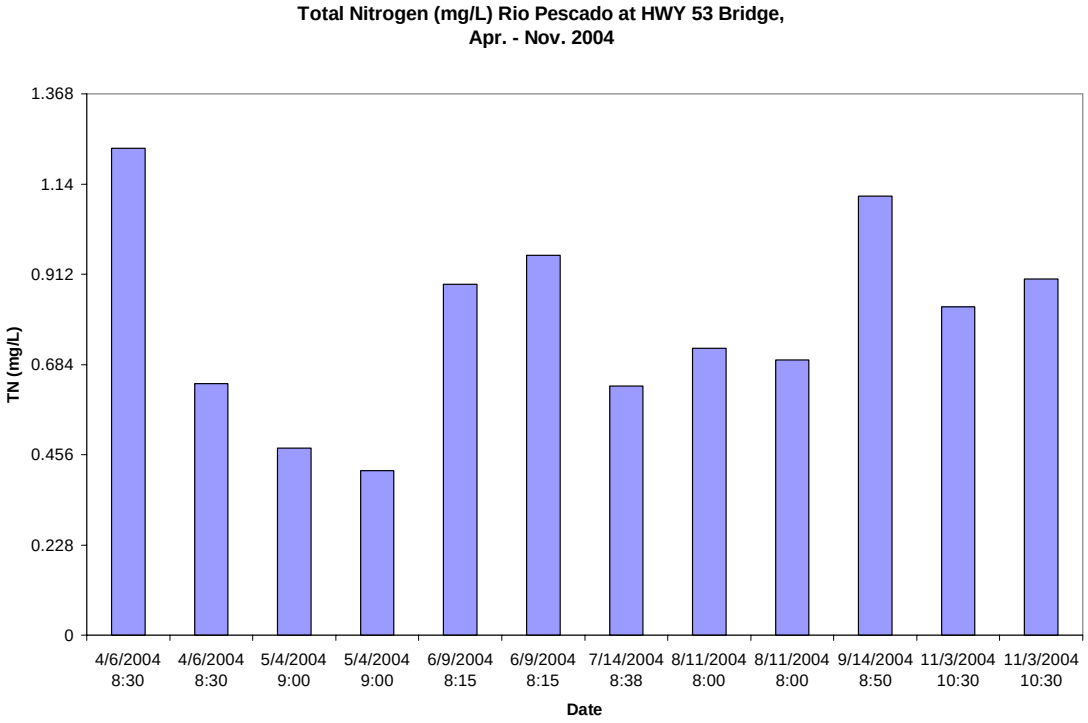


TKN (mg/L) Rio Pescado at HWY 53 Bridge, Apr. - Nov. 2004



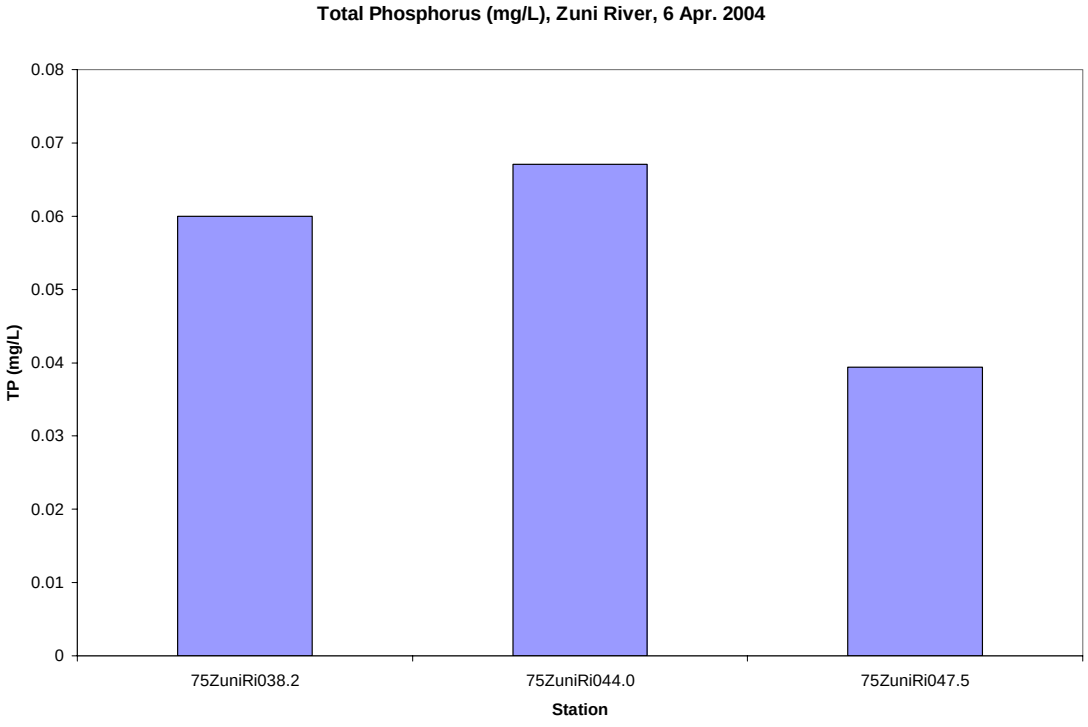
Nitrate+Nitrite (mg/L) Rio Pescado at HWY 53 Bridge, Apr. - Nov. 2004

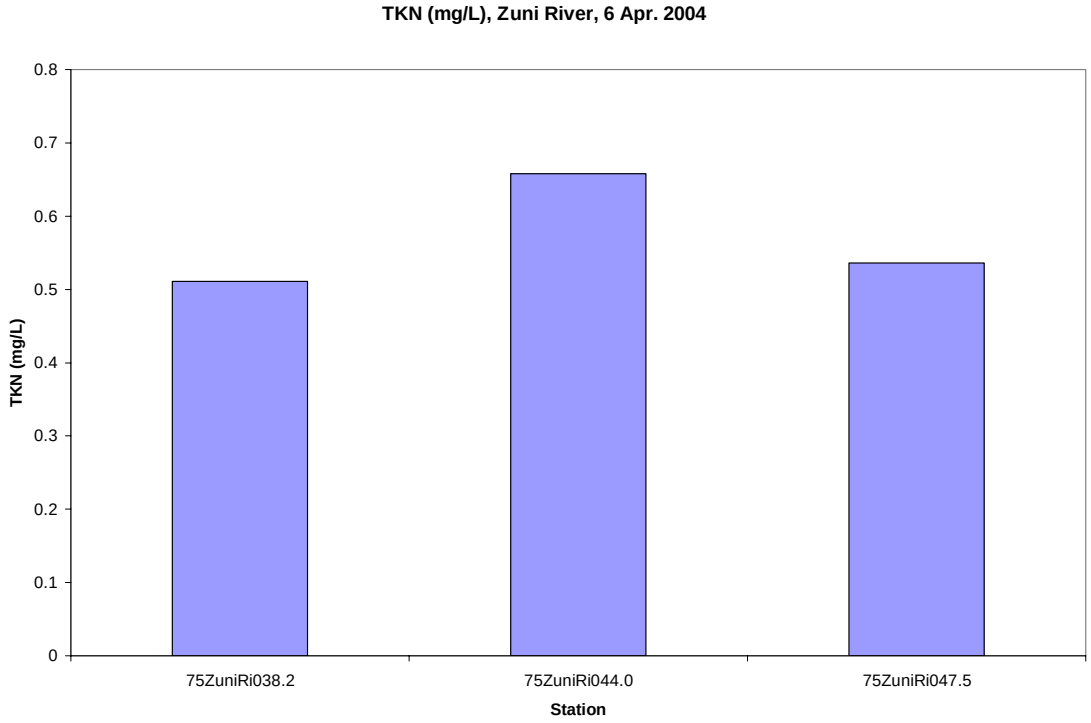




The samples for the Rio Pescado were the only ones with detectable levels of nitrate and nitrite, therefore total nitrogen levels could be calculated. Total Nitrogen (TKN + NO_2 +NO_3) ranged from 0.416 to 1.231 mg/L with a mean and median of 0.301 mg/L and 0.775 mg/L, respectively.

ZUNI RIVER



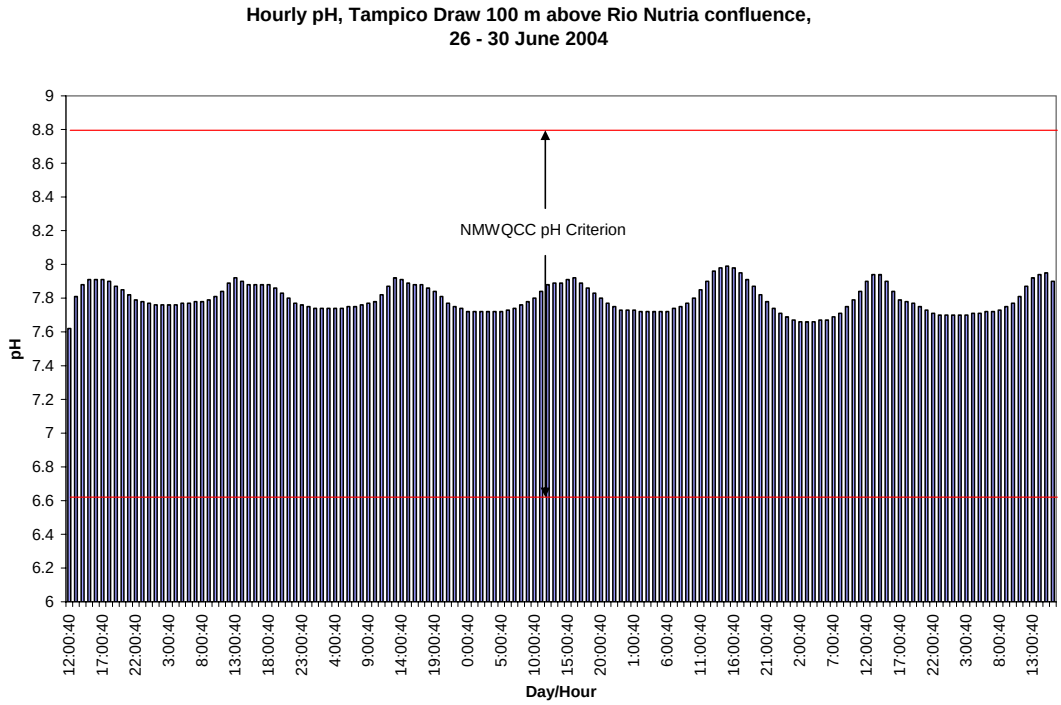


SONDE DATA

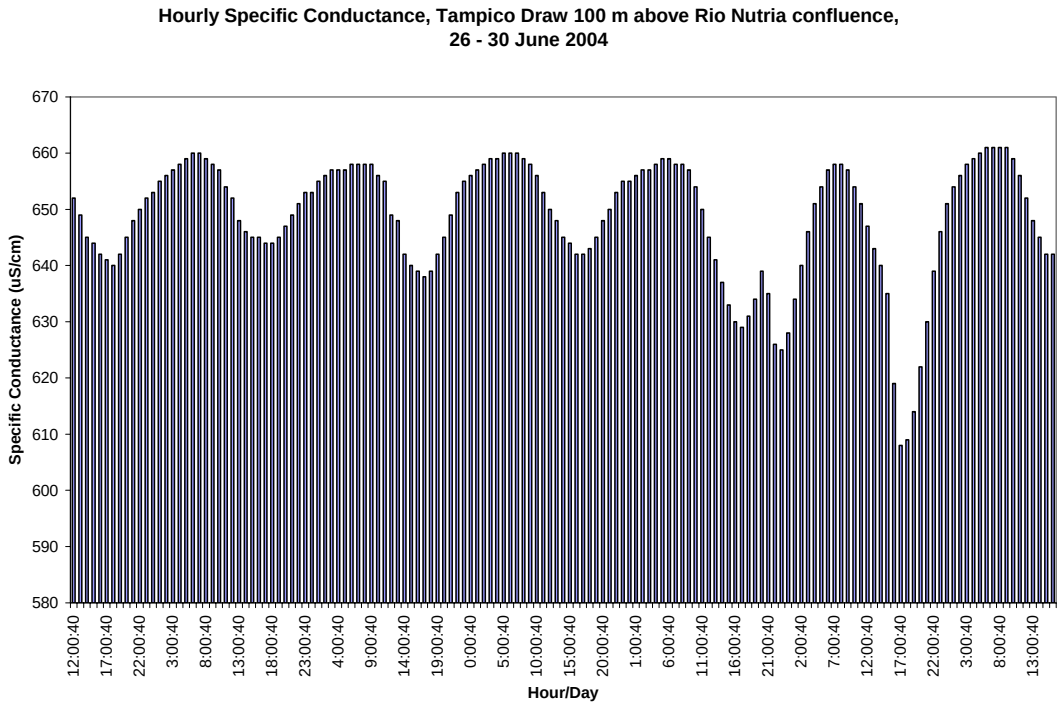
SAMPLING SITES ABOVE ZUNI PUEBLO

TAMPICO DRAW

Measured pH fell within acceptable limits according to the NM WQS criteria (pH between 6.6 and 8.8). Measured pH ranged from 7.62 to 7.99 with a mean and median of 7.80 and 7.78, respectively.



Specific Conductance ranged from 608 uS/cm to 661 uS/cm with a mean and median of 648.53 and 651.00, respectively.

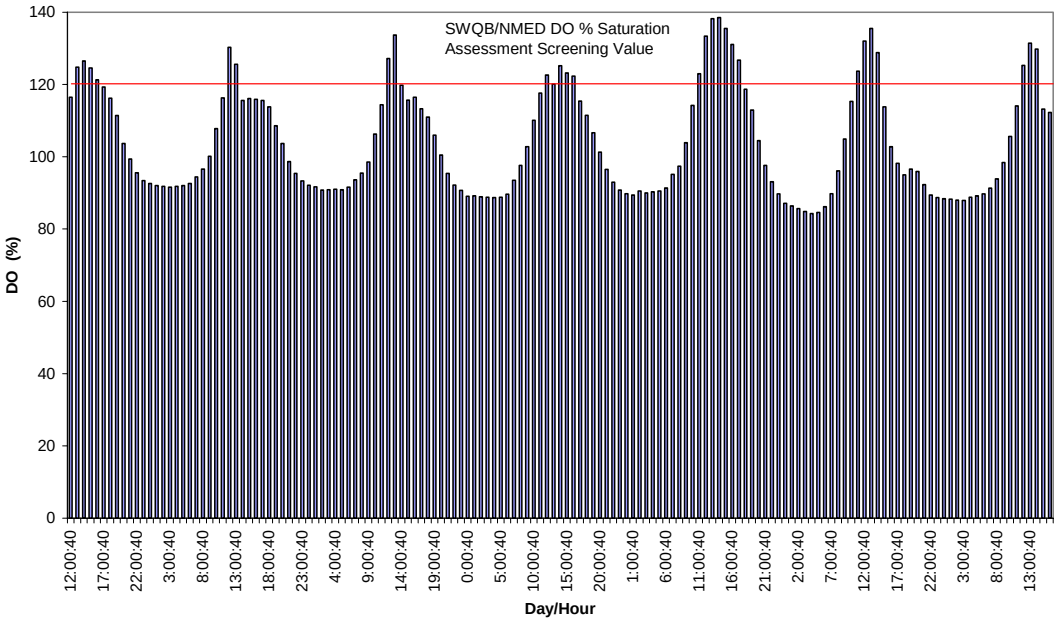


DO (L%Sat) ranged from 84.3 to 138.5% with a mean and median of 104.07 and 98.4, respectively. There were daily recordings of DO (L%Sat) exceeding 120%.

While there is no NM criterion for DO local percent saturation, SWQB uses these data and a screening value of 120% or greater which may indicate potential eutrophication. These data in

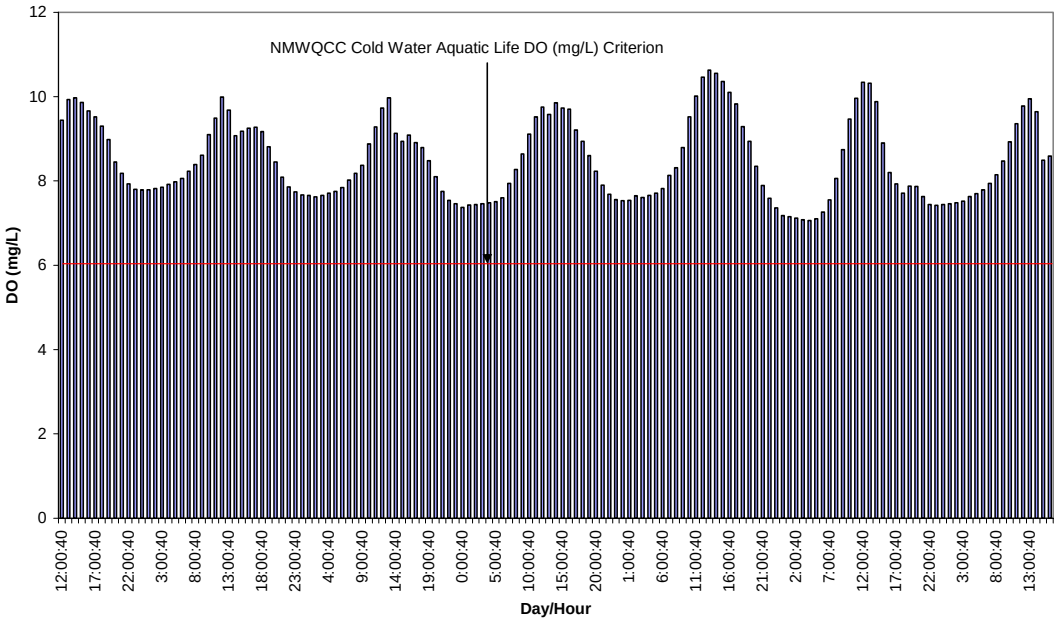
conjunction with Total Nitrogen, Total Phosphorus, Chlorophyll a (Chl a), and ash free dry mass (AFDM) are then used to determine if there is nutrient enrichment and whether or not the plant nutrient threshold value has been exceeded.

Hourly Dissolved Oxygen (Percent Saturation), Tampico Draw 100 m above Rio Nutria confluence, 26 - 30 June 2004

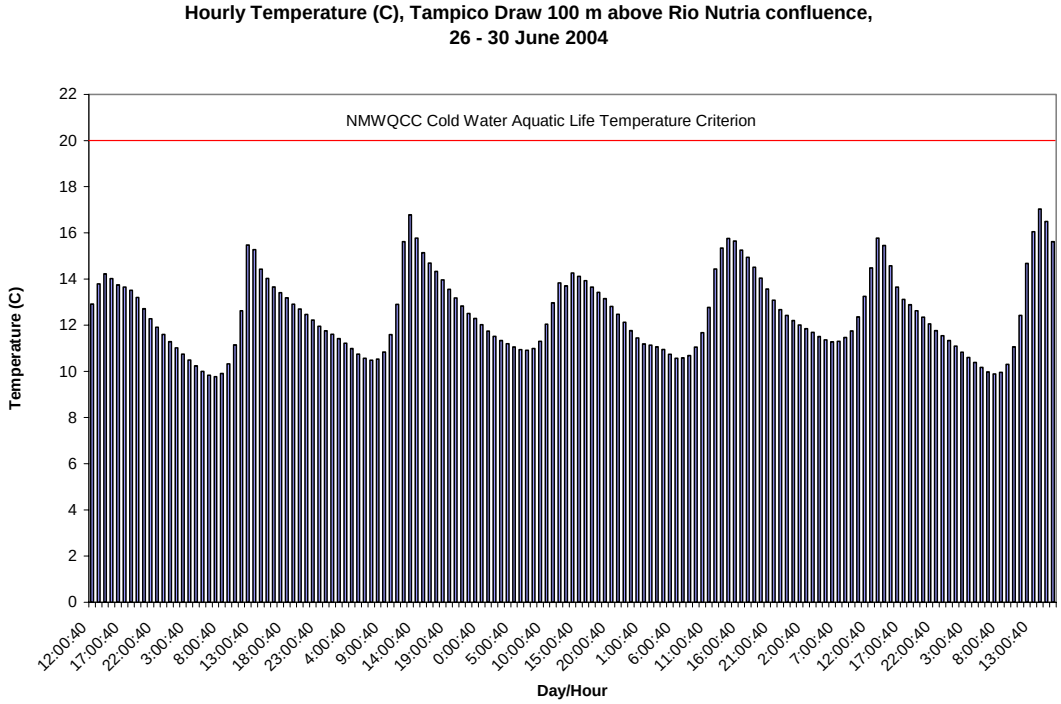


Dissolved oxygen concentration data indicated no exceedences of the NM criteria for coldwater aquatic life use of 6 mg/L.

Hourly Dissolved Oxygen (mg/L), Tampico Draw 100 m above Rio Nutria confluence, 26 - 30 June 2004



Hourly temperature recordings from this data set indicate that temperatures rarely rose above 16 ºC. The most stringent temperature criterion specified in NM WQS is 20°C. A larger temperature dataset collected by thermograph is assessed below.

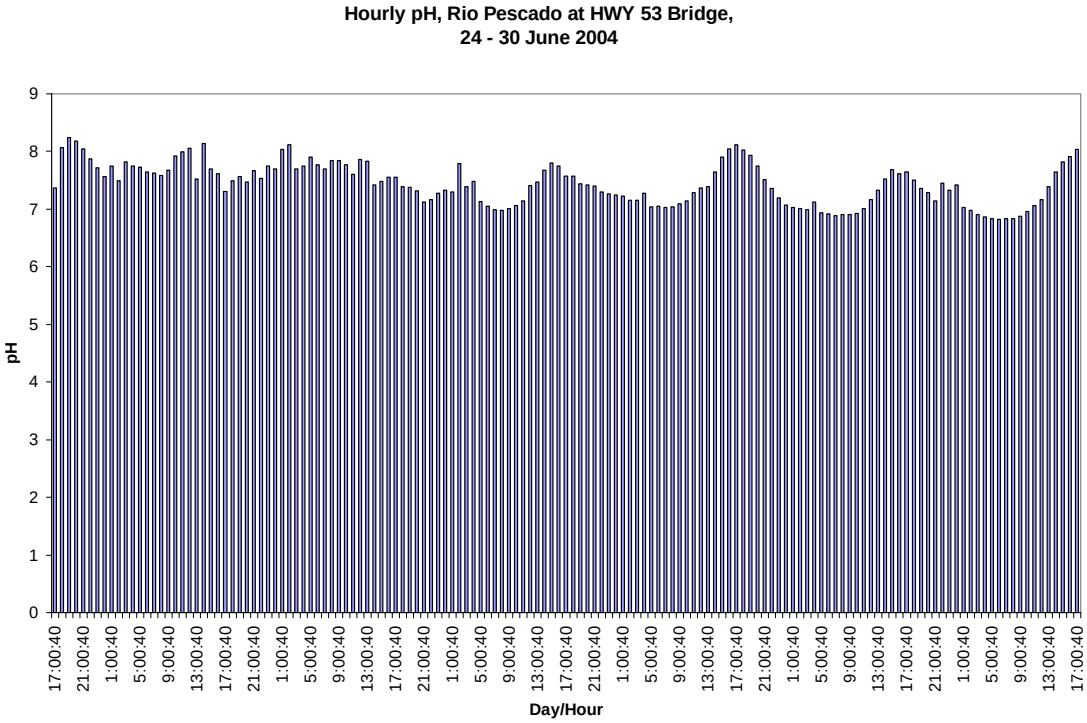


SAMPLING SITES WITHIN ZUNI PUEBLO

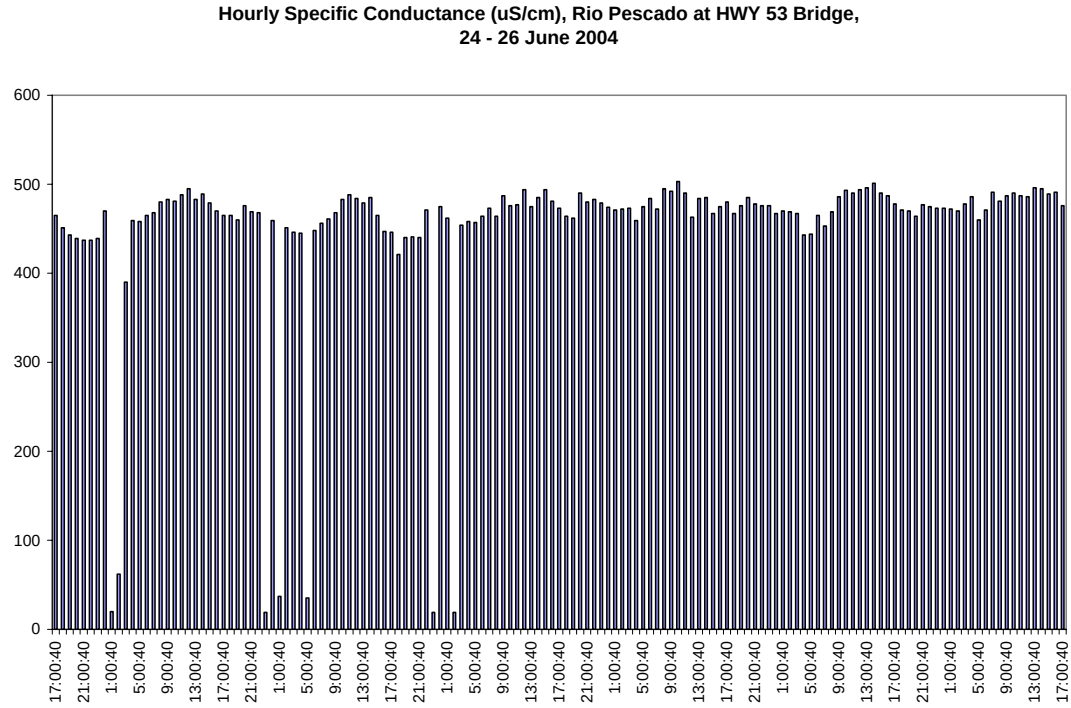
RIO PESCADO

Sonde data from the Rio Pescado at HWY 53 bridge was collected hourly from June 24-30, 2004 (n = 145).

Measured pH ranged from 6.82 to 8.24 with a mean and median of 7.45 and 7.44, respectively.

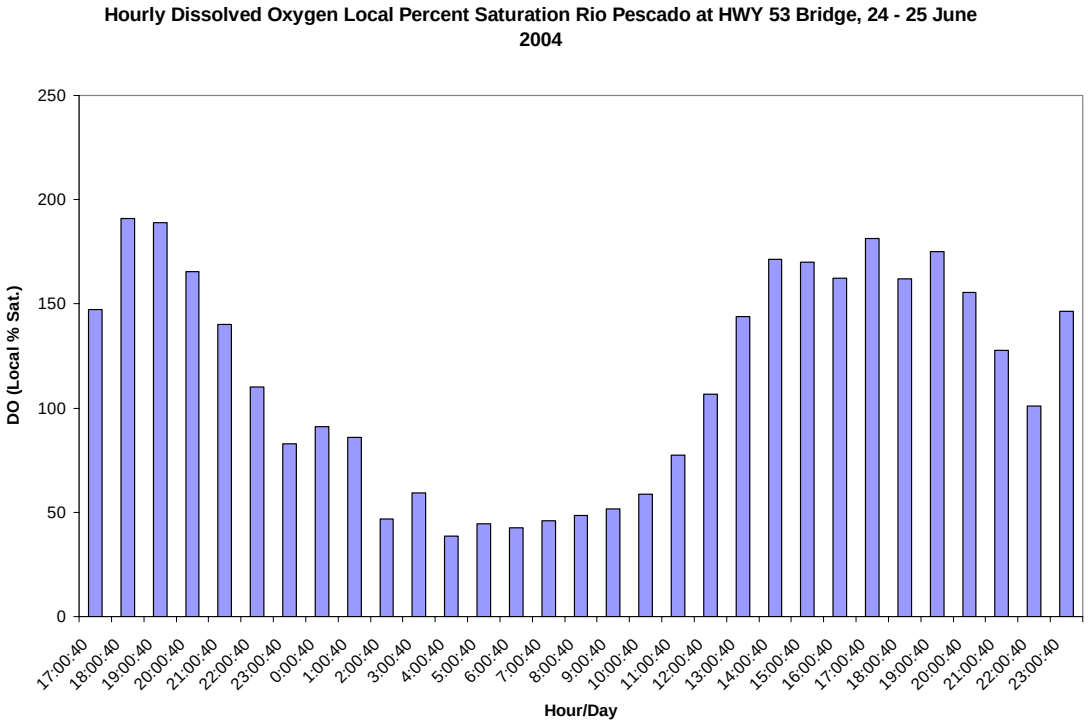


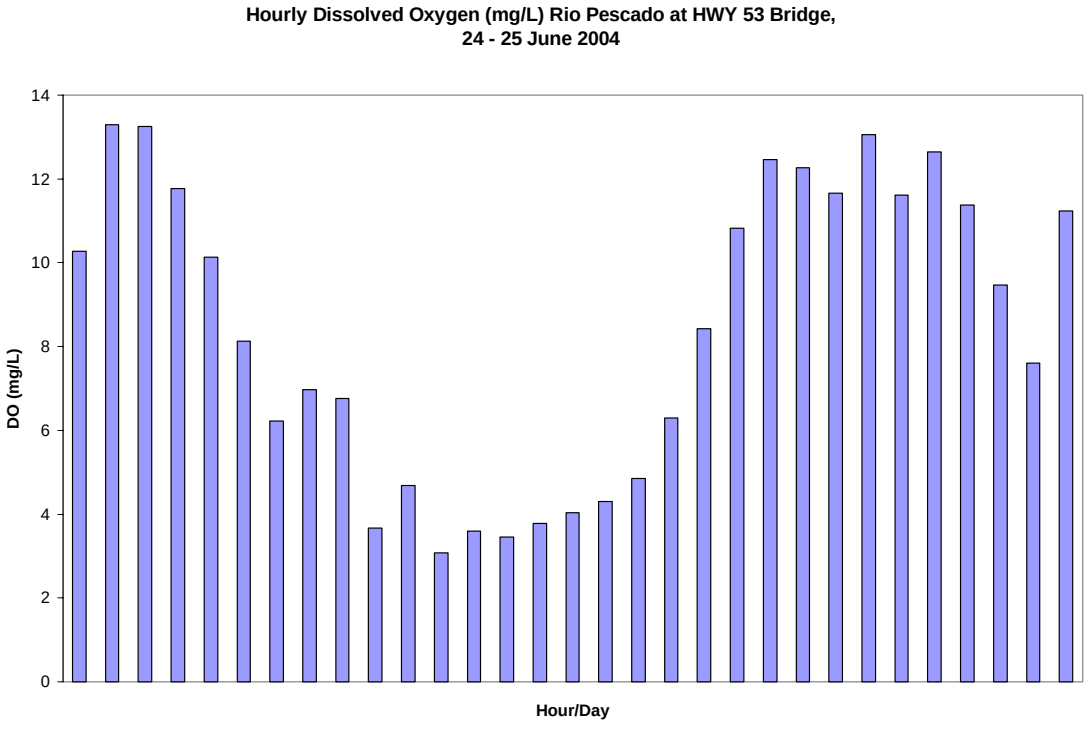
Specific Conductance ranged from 19 uS/cm to 503 uS/cm with a mean and median of 450.05 and 472.00 uS/cm, respectively.



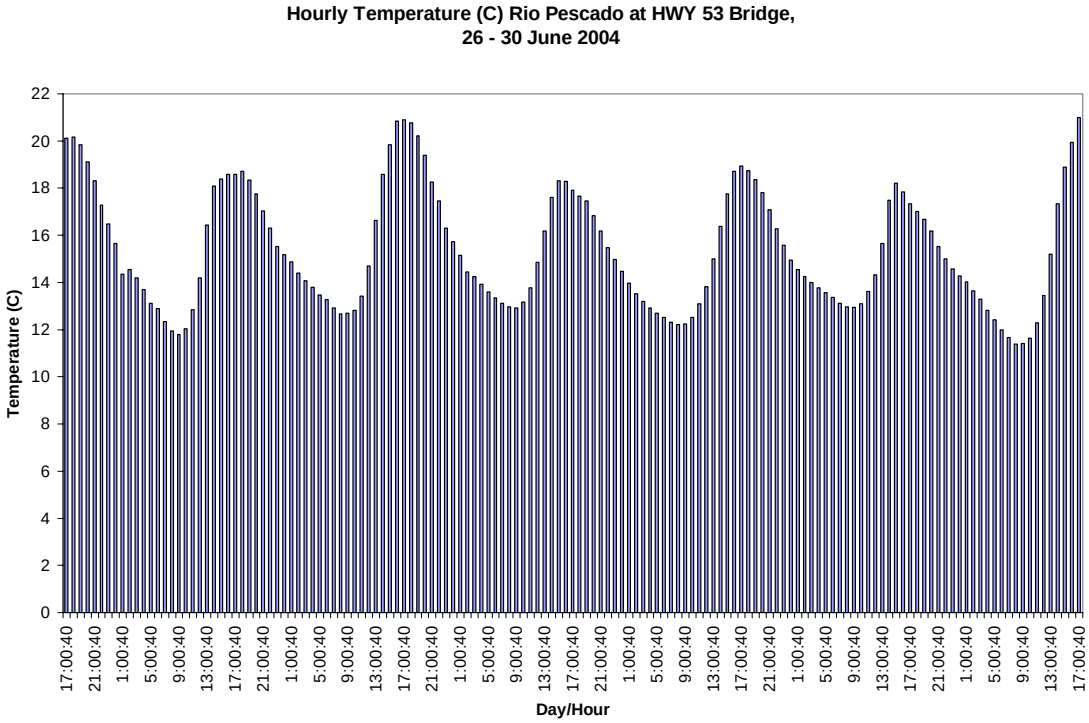
Dissolved oxygen data were accepted only from the first 31 hours of data due to problems with the probe. DO charge was recorded as high as 100.2 and should be 50, +/- 25. Therefore, all

readings after the first 36 hours were flagged as not valid data. DO local percent saturation (L%Sat) ranged from 38.5 to 191 with a mean and median of 113.55 and 8.42, respectively.





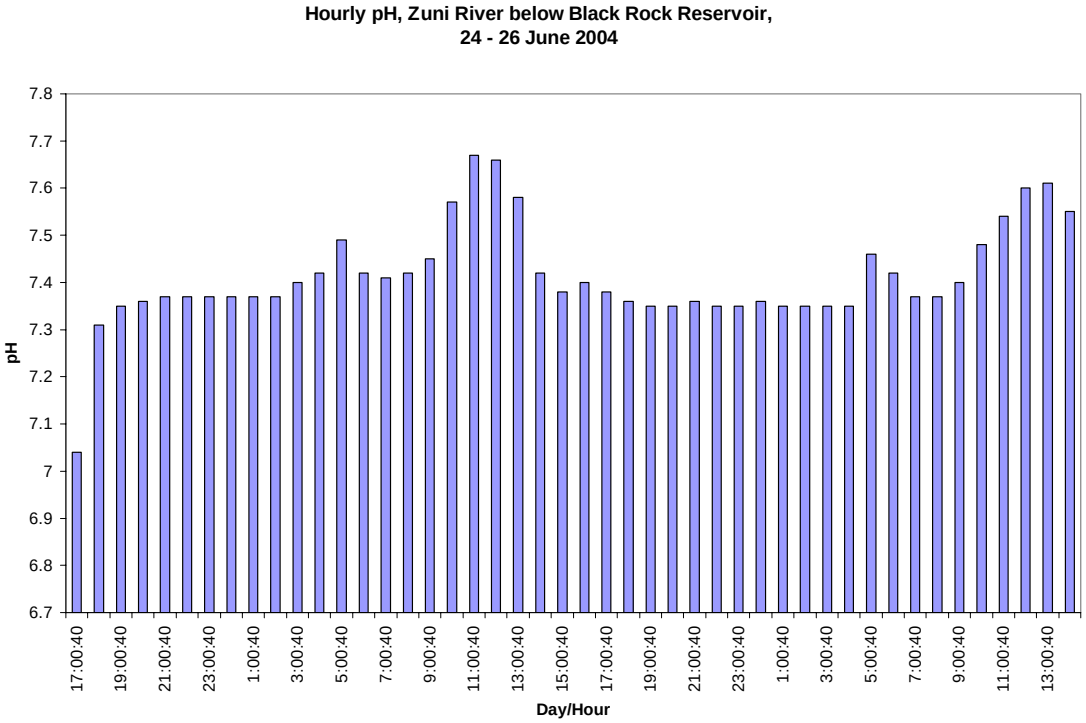
Hourly temperature recordings from this data set shows that the temperature ranged from 12 to 21°C.



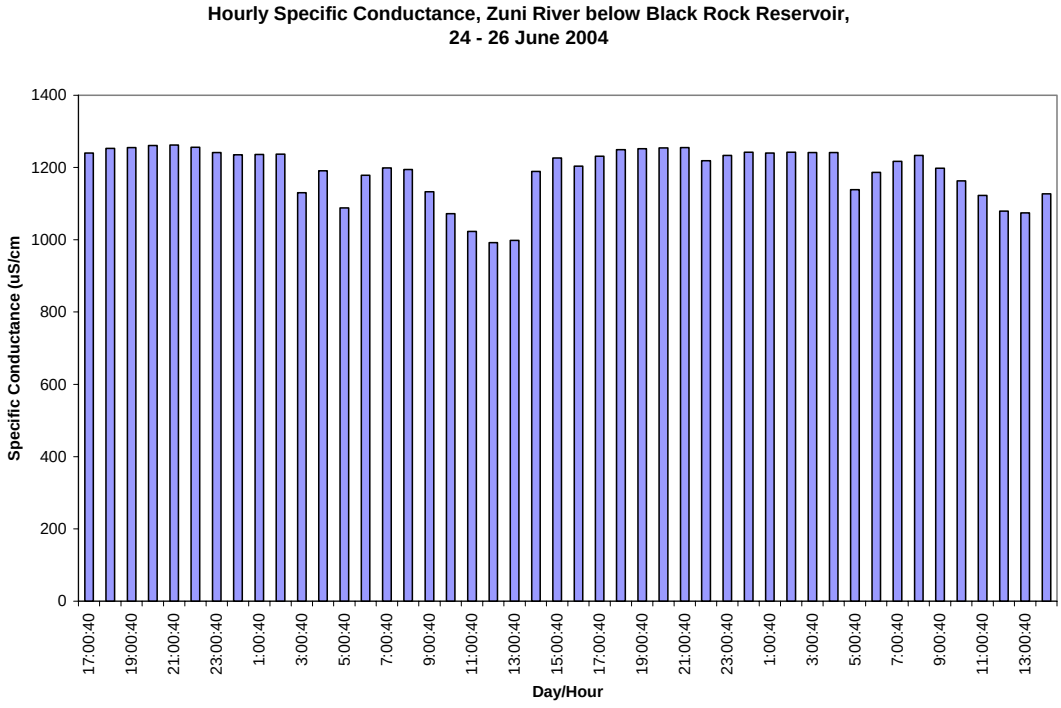
ZUNI RIVER

Sonde data from Zuni River below Black Rock Reservoir was collected hourly for approximately 46 hours of the planned 7 day sampling event before being inadvertently removed from the river.

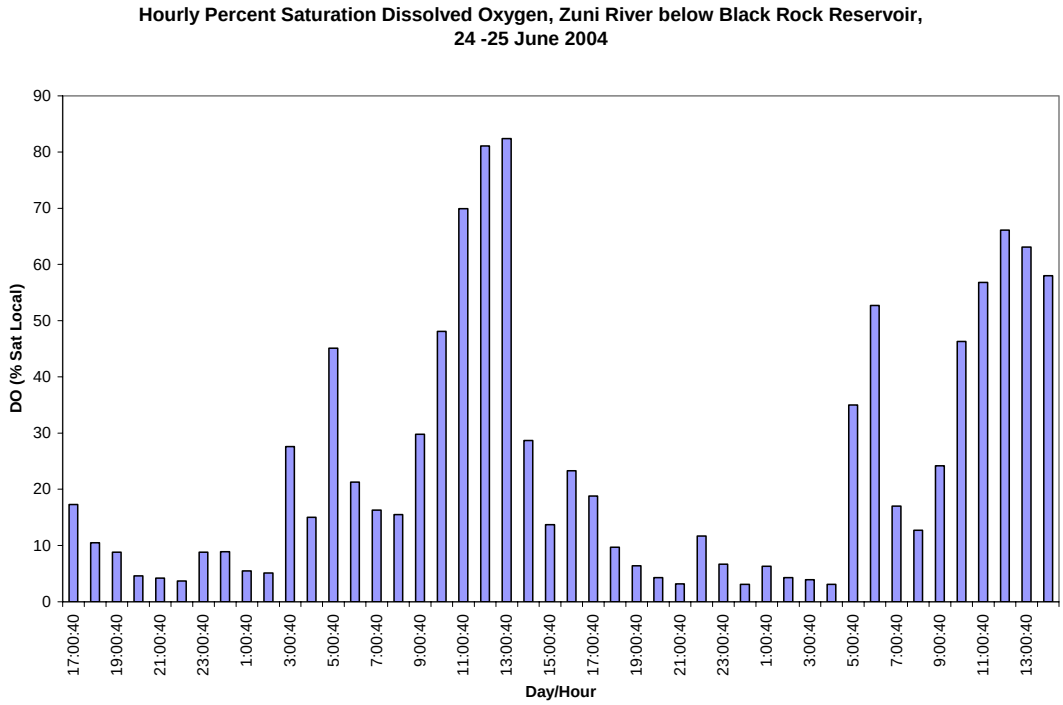
pH ranged from 7.04 to 7.67 with a mean and median of 7.41 and 7.38, respectively.



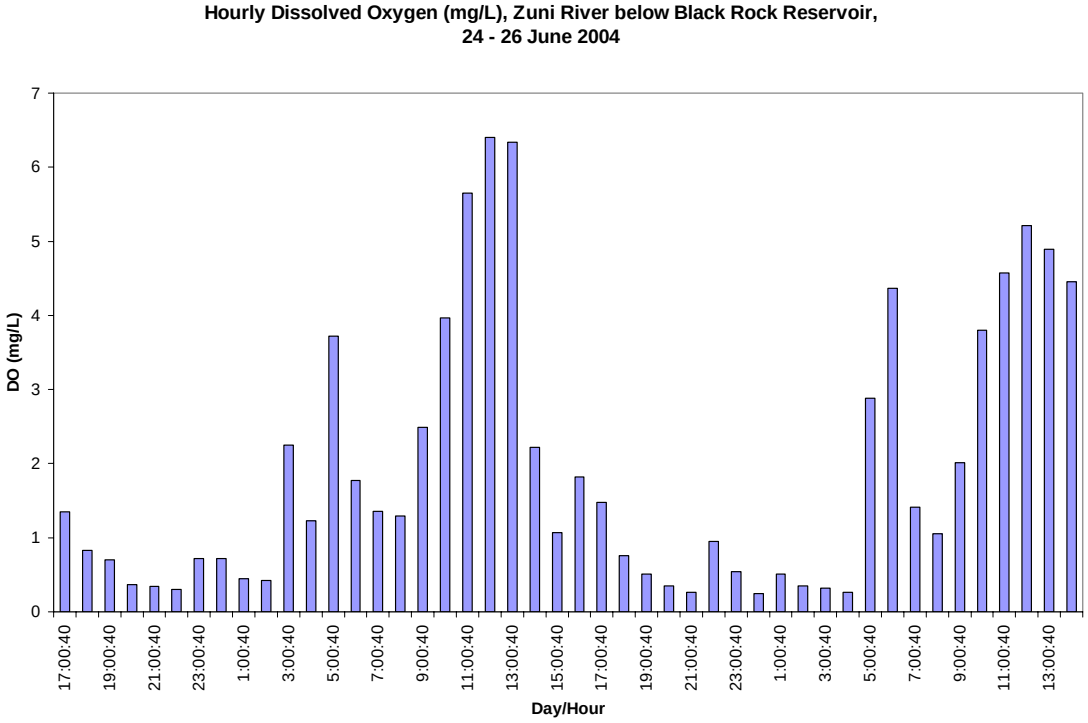
Specific Conductance ranged from 992 uS/cm to 1262 uS/cm with a mean and median of 1189.804 and 1222.5 uS/cm, respectively.



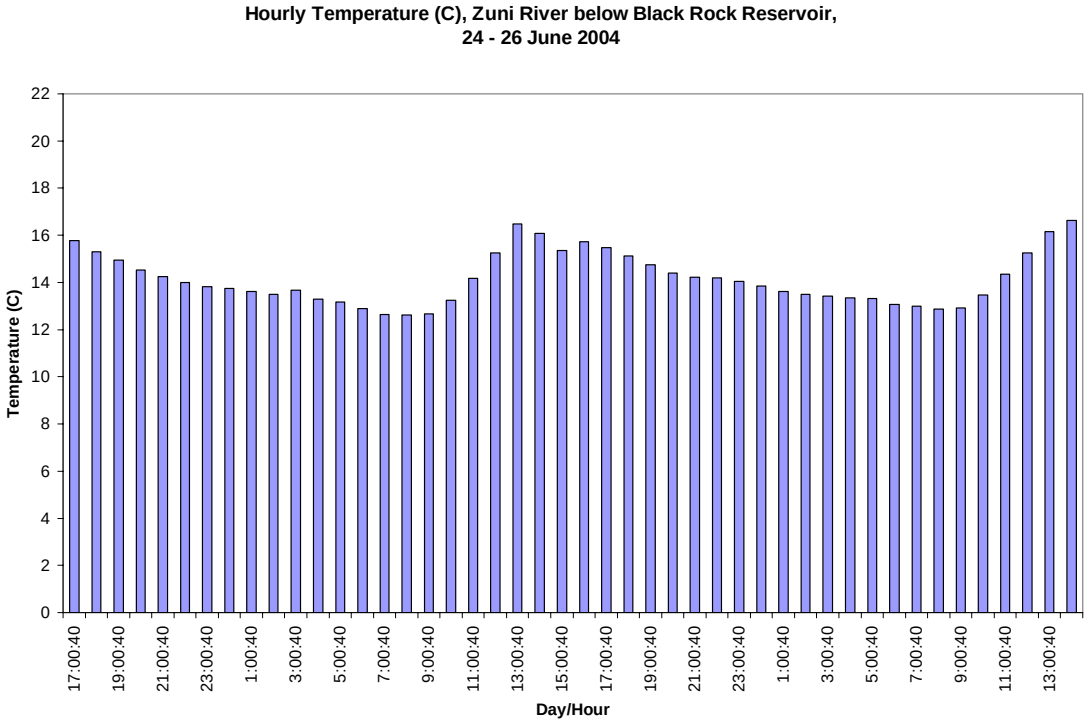
The hourly local percent saturation dissolved oxygen (DO) ranged from 3.1 to 82.4 with a mean and median of 24.1 and 15.25, respectively.



Hourly DO concentrations (mg/L) ranged from 0.25 to 6.4 with a mean and median of 1.934 and 1.26, respectively.



Hourly temperature (C) recordings ranged from 12.62 to 16.63 with a mean and median of 14.17 and 13.93, respectively.



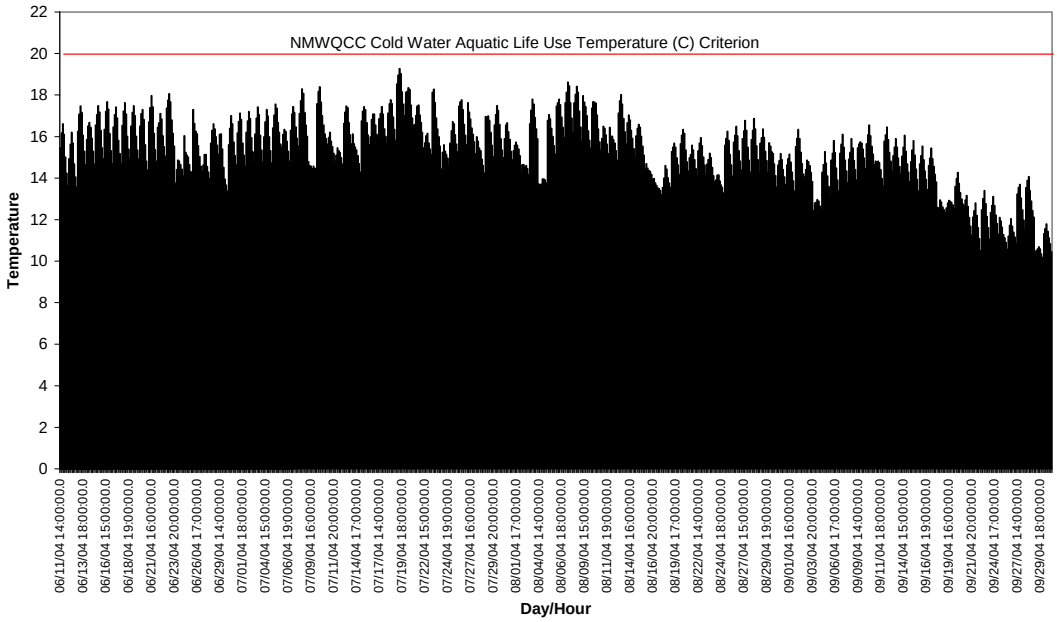
THERMOGRAPH DATA

SAMPLING SITES ABOVE ZUNI PUEBLO

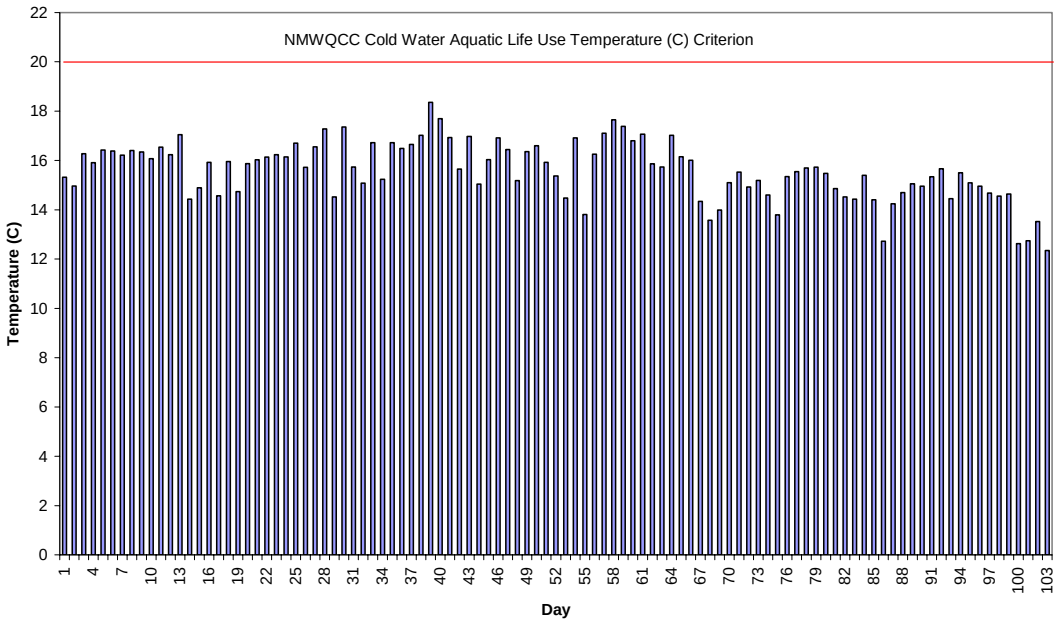
TAMPICO DRAW

Daily temperature measurements of Tampico Draw rarely exceeded 18 ºC and were very steady potentially indicating groundwater input. Tampico Draw could be classified as a coldwater aquatic life system.

Daily (14:00 - 20:00) High Temperature (C), Tampico Draw 100 m above Rio Nutria confluence, June - Sept. 2004



Mean Daily High (14:00 - 20:00) Temperature (C), Tampico Draw 100 m above Rio Nutria confluence, June - Sept. 2004

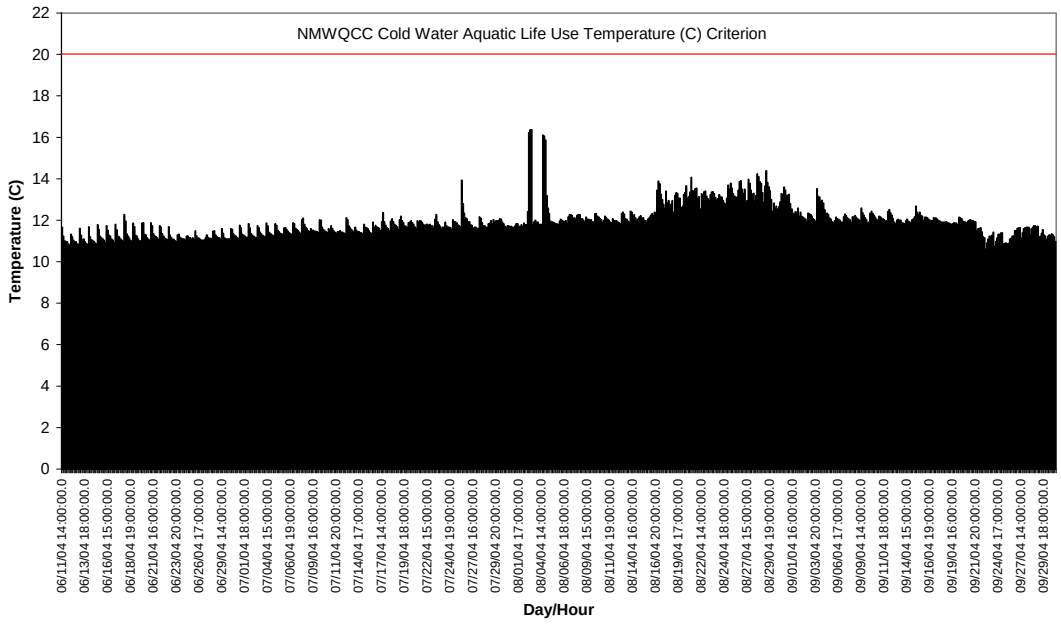


SAMPLING SITES WITHIN ZUNI PUEBLO

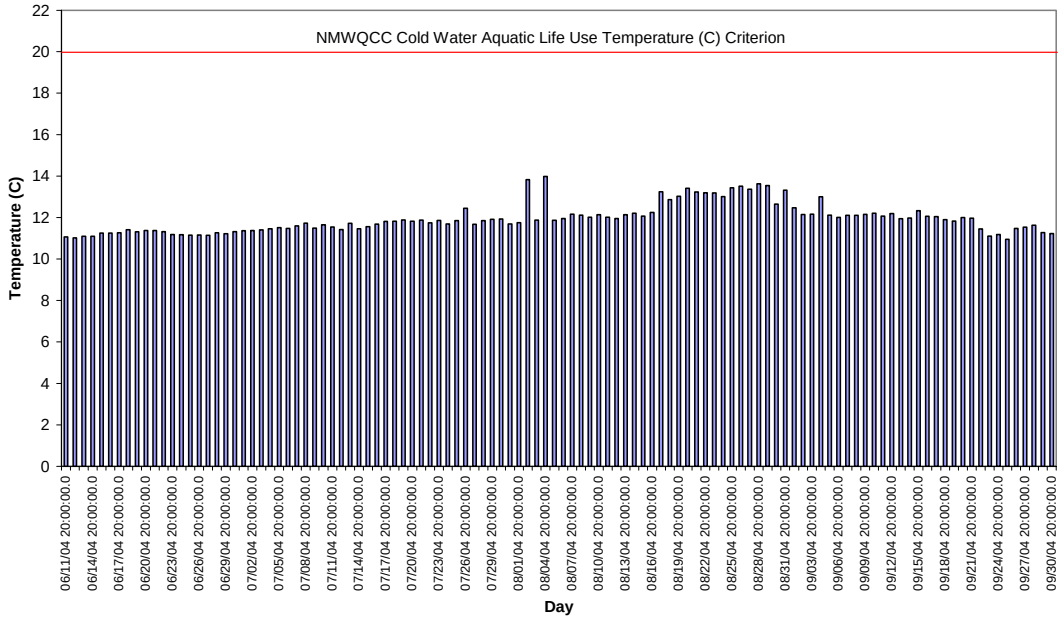
RIO NUTRIA

Daily temperature measurements of the Rio Nutria 30 m above the USGS gage rarely exceeded 14 ºC and were very steady, indicating groundwater input.

Daily (14:00 - 20:00) High Temperature (C), Rio Nutria 30 m above USGS Gage, June - Sept. 2004

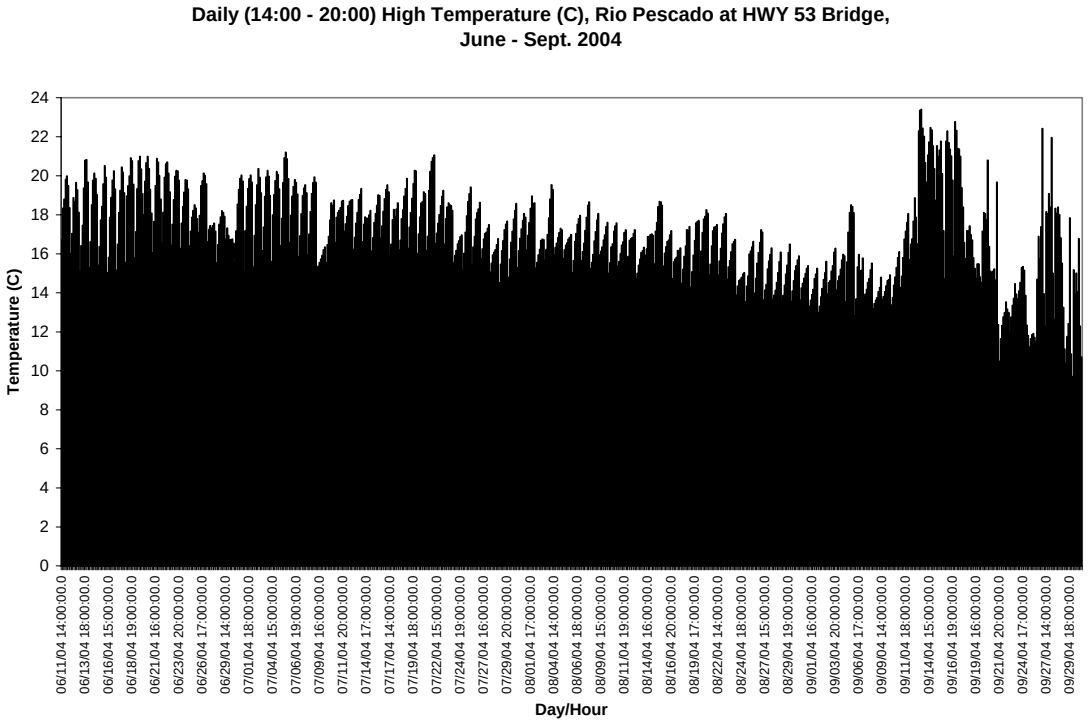


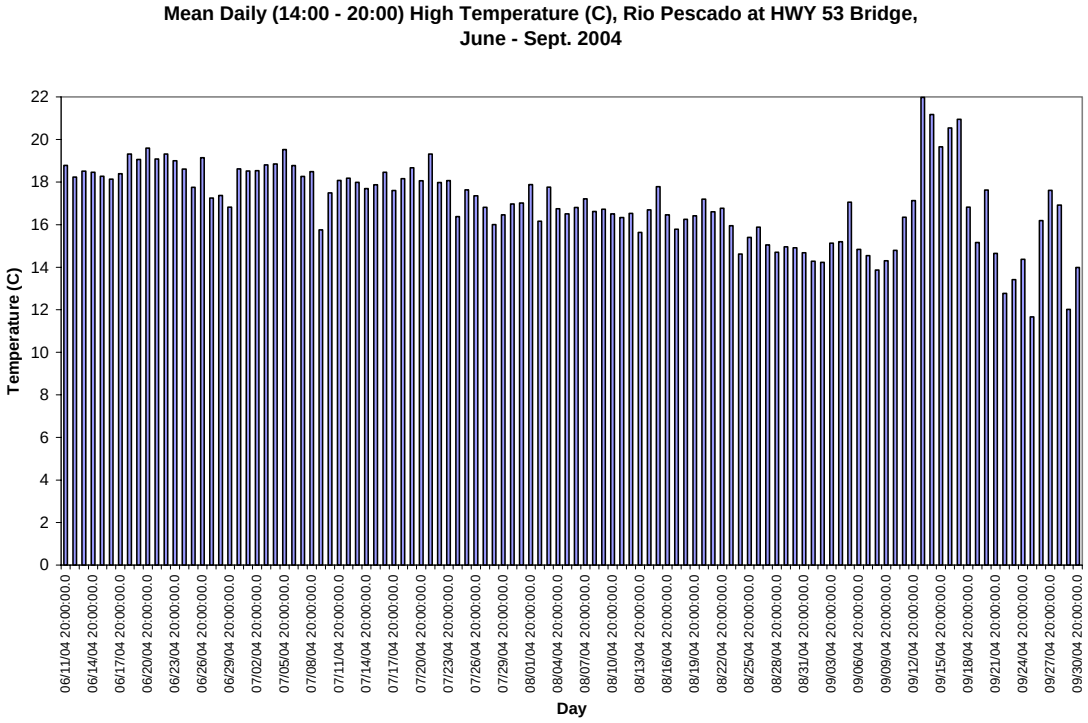
Mean Daily (14:00 - 20:00) High Temperature (C), Rio Nutria 30 m above USGS Gage, June - Sept. 2004



RIO PESCADO

Thermograph data was collected hourly from 4 June 2004 – 16 May 2005. Data analyses only include data from Jun. – Sept 2004. Mean daily high temperature is calculated from the temperature recordings between 14:00 – 20:00 which usually encompasses the highest daily temperatures.





MACROINVERTEBRATE DATA

Macroinvertebrates were sampled in the Zuni River below Black Rock Dam and the Rio Nutria 100 m above the confluence with Tampico Draw. Samples were collected with a kicknet. The data are summarized in Table 3.

SAMPLING SITES ABOVE ZUNI PUEBLO

RIO NUTRIA

The Rio Nutria sample had a relatively low EPT of 7. Potential stressors to the aquatic community are low flow conditions, elevated temperatures, substrate particle size, DO, or other unknown factor(s).

Low D.O. was recorded at a nearby station, Rio Nutria 100 yards above USGS gage (75RNutri028.0), ranging from 8.8 to 4.3 mg/L. One D.O. value was recorded at 2.9 mg/L from Rio Nutria above Tampico Draw (75RNutri030.2). Low DO would be expected to affect the generally more sensitive EPT taxa.

Three shredder taxa were found indicating some allochthonous inputs. The number of individual shredders is still relatively low for a headwater stream. This may be due to the types of allochthonous inputs, i.e., conifer needles versus leaves.

The number of scraper individuals, 19, compares favorably to the number of filterer individuals, 19, indicating a balanced community and foodbase. Predominance of a particular feeding type may indicate an unbalanced community responding to an overabundance of a particular food source.

The percent dominant taxon metric score, 34.48%, would score a 2, out of a possible 6, in the RBP assessment. Percent contribution of the dominant taxa is a measure of community balance at the lowest practical taxonomic level. A community dominated by relatively few taxa could be an indication of environmental stress.

The Hilsenhoff Biotic Index (HBI) is relatively high, 4.84, indicating potential nutrient enrichment. HBI values can range from 0 to 10 increasing with decreasing water quality. HBI is used to evaluate the extent of organic pollution (nutrient enrichment). The high HBI score might be attributed to significant groundwater inputs, as indicated by the temperature data, during the flow conditions experienced during 2001 - 2004. Development in the watershed may also be contributing to nutrient loading.

Chironomidae taxa richness was robust with 14 taxa. Shannon-Weiner Diversity Index was lower than would be expected, 3.5, for a stream in good condition indicating that there are concerns probably as a result of increased dissolved nutrients and bedded sediment. The low DO levels could also allow for a more diverse chironomid community by excluding competitors that cannot tolerate low DO. Chironomid haemolymph (blood) contains haemoglobin, the iron-containing oxygen-transport metalloprotein found also in mammals. The haemoglobin in chironomids allows them to inhabit areas that have low dissolved oxygen concentrations. Species in the chironomid genus *Stictochironomus* are often associated with silty/sandy sediments of streams and slowly flowing rivers and profundal soft sediments or littoral sand of oligotrophic and mesotrophic lakes (Wiederholm 1986).

New Mexico Environment Department
Surface Water Quality Bureau RBP and Proposed NM M-SCI Metrics

Project **Zuni (2004)**

StationID	75RNutri030.0	***Location***	at confl. with Upper Nutria (Tampico Draw)

WaterbodyName	Rio Nutria	***River Kilometer***	30.0	***UseClassID***	UC
BasinID		***Catchment Area (km)***		***Eco3_ID***	23
County	McKinley	***Elevation (m)***	2201	***Eco4_ID***	
Latitude	35.29605	***Longitude***	-108.5350		
Collection	14 Sep 2004	***Collection Method***	Ben_03	***BenSampID***	869

Rapid Bioassessment Protocol (RBP) Metrics		***Metrics Used in Calculation of RBP***	
Shannon - Wiener (base 2):	3.4964583	Total No. of Individuals:	319
Total No. of Taxa:	33	No. of EPT Individuals:	185
Total No. of EPT Taxa:	9	No. of Chironomidae Individuals:	95
Ratio of EPT/Chironomidae:	1.9473684	No. of Scraper Individuals:	19
Ratio of Scrapers/Filterer Collectors:	0.1111111	No of Filterer Individuals:	19
Ratio of Shredder/Total No. of Ind.:	9.4043887	No. of Collector Individuals:	171
Percent Dominant Taxon:	34.48	No. of Shredder Individuals:	3
Hilsenhoff Biotic Index:	4.84	No. of Individuals Dominant Taxon:	110

Proposed NM M-SCI Metrics

Taxonomic Composition		*SCI*	*Habit*		*SCI*
Shannon - Wiener (base 2):	3.4964583	89.8832	Clinger Taxa Richness:	6	35.294
Evenness (Pielou):	0.4203781	84.0756	Sprawler Taxa Richness:	7	100
Percent Plecoptera:	0	0	Swimmer Taxa Richness:	1	25
Taxonomic Richness			***Functional Feeding***		
No. of Ephemeroptera Taxa:	3	42.8571	Percent Scraper:	5.95611	13.604
No. of Plecoptera Taxa:	0	0	Scraper Taxa Richness:	2	50
Tolerance					
Percent EPT:	57.993730	73.9150			
Percent Intolerant:	5.3291536	9.32159	***M-SCI Score:***		43.66261

SAMPLING SITES WITHIN ZUNI PUEBLO

ZUNI RIVER

The Zuni River sample has a low EPT (3), with no Plecoptera.

The total number of taxa was relatively high, 43, with more than half of the taxa richness coming from the Family Chironomidae, 24.

The number of scraper individuals, 16, compares favorably to the number of filterer individuals, 13.

No shredder taxa were found.

The Hilsenhoff Biotic Index (HBI) is 6.80. Chironomidae taxa richness and Shannon-Weiner Diversity Index are very high, 22 and 4.55 respectively.

New Mexico Environment Department
Surface Water Quality Bureau RBP and Proposed NM M-SCI Metrics

Project **Zuni (2004)**

StationI 75ZuniRi040.5 ***Location*** Zuni River 100 m below Black Rock Dam

WaterbodyName	Zuni River	***River Kilometer***		***UseClassID***	
BasinID	15020004	***Catchment Area (km)***		***Eco3_ID***	
County	McKinley	***Elevation (m)***		***Eco4_ID***	
Latitude	35.09282	***Longitude***	-108.7893		
Collection	15 Sep 2004	***Collection Method***	Ben_03	***BenSampID***	870

Rapid Bioassessment Protocol (RBP) Metrics		*Metrics Used in Calculation of RBP*	
Shannon - Wiener (base 2):	4.5481362	Total No. of Individuals:	322
Total No. of Taxa:	43	No. of EPT Individuals:	48
Total No. of EPT Taxa:	4	No. of Chironomidae Individuals:	172
Ratio of EPT/Chironomidae:	0.2790697	No. of Scraper Individuals:	16
Ratio of Scrapers/Filterer Collectors:	8.8888888	No of Filterer Individuals:	13

Ratio of Shredder/Total No. of Ind.:		No. of Collector Individuals:	180
Percent Dominant Taxon:	14.91	No. of Shredder Individuals:	0
Hilsenhoff Biotic Index:	6.80	No. of Individuals Dominant Taxon:	48

Proposed NM M-SCI Metrics

Taxonomic Composition		***SCI***	***Habit***		***SCI***
Shannon - Wiener (base 2):	4.5481362	100	Clinger Taxa Richness:	5	29.411
Evenness (Pielou):	0.5459346	100	Sprawler Taxa Richness:	10	100
Percent Plecoptera:	0	0	Swimmer Taxa Richness:	1	25
Taxonomic Richness			***Functional Feeding***		
No. of Ephemeroptera Taxa:	1	14.2857	Percent Scraper:	4.96894	11.349
No. of Plecoptera Taxa:	0	0	Scraper Taxa Richness:	4	100
Tolerance					
Percent EPT:	14.906832	18.9992			
Percent Intolerant:	0	0	***M-SCI Score:***		41.58721

Table 3. Macroinvertebrate data collected during 2004 Zuni Watershed Survey

		Site name	Rio Nutria at conf. Upper Nutria (Tampico)	Zuni River below Black Rock Dam
		Site identifier	**75RNutri030.0**	**75ZuniRi040.5**
Taxa				
Ephemeroptera				
	Baetidae			
		Acentrella		
		Baetis	110	
		Baetis magnus	38	
		Callibaetis		30
		Centroptilum	14	
	Heptageniidae			
		Cinygmula		
Odonata				
	Coenagrionidae			2
Trichoptera				
	Hydropsychidae		3	
		Hydropsyche	16	
	Hydroptilidae			5
		Hydroptila		9
		Ochrotrichia		4
	Lepidostomatidae			
		Lepidostoma	1	
	Limnephilidae		1	

		Site name	Rio Nutria at conf. Upper Nutria (Tampico)	Zuni River below Black Rock Dam
		Site identifier	**75RNutri030.0**	**75ZuniRi040.5**
Taxa				
		Grammotaulius	1	
		Hesperophylax	1	
Coleoptera				
	Dytiscidae		1	
	Elmidae			
		Optioservus	15	
		Zaitzevia	5	
Diptera				
	Ceratopogonidae			
		Forcipomyiinae		1
	Ephydridae			
	Muscidae			
		Muscidae		5
	Psychodidae			
		Pericoma	1	
	Simuliidae			3
		Simulium	3	10
	Stratiomyidae			
		Caloparyphus	2	
		Nemotelus sp.		
	Tipulidae			
		Dicranota	1	
	Chironomidae			
		Apedilum		1
		Chironomidae – pupa	1	8
		Corynoneura	3	5
		Cricotopus (Cricotopus)	2	
		Cricotopus (Isocladius)		9
		Cricotopus bicinctus		1
		Cryptochironomus	1	
		Dicrotendipes	11	
		Eukiefferiella Brehmi Gr.	44	1
		Eukiefferiella Claripennis Gr.		7
		Eukiefferiella Gracei Gr.		1
		Heleniella		4
		Labrundinia		1
		Larsia	2	

		Site name	Rio Nutria at conf. Upper Nutria (Tampico)	Zuni River below Black Rock Dam
		Site identifier	**75RNutri030.0**	**75ZuniRi040.5**
Taxa				
		Limnophyes		2
		Micropsectra	7	3
		Orthocladiinae	1	3
		Orthocladius		7
		Parakiefferiella		2
		Parametriocnemus		32
		Paratanytarsus		9
		Paratendipes		1
		Phaenopsectra		1
		Stictochironomus	14	1
		Tanypodinae	3	
		Tanytarsini	4	9
		Tanytarsus		5
		Thienemanniella		48
		Thienemannimyia Gr.	1	
		Tvetenia Bavarica Gr.	1	11
Non-insect taxa				
	Turbellaria			1
	Oligochaeta			
		Naididae		28
		Tubificidae	3	8
	Pisidiidae			12
	Lymnaeidae			2
	Physidae		4	1
	Copepoda			1
	Gammaridae			
		Gammarus		21
	Talitridae			
		Hyalella	4	6
	Cambaridae			1
	Artemiidae			
		Artemia		
		Total No. of Individuals	319	322
		Total No. of Taxa	33	43

CONCLUSIONS

The snowpack in the Zuni River watershed and summer rainfall were both very low in 2004 when this survey was conducted. This resulted in many of the sampling stations on Pueblo land going dry during the survey, and reduced flows at those stations that were sampled. Despite these conditions, water quality was generally good and the single exceedence of the New Mexico Water Quality Standards for dissolved oxygen recorded at the Rio Nutria above Tampico Draw was most likely attributable to the very low flow observed there.

Signage at the Upper Pescado Spring pipeline discharge warns against drinking the water due to possible fecal coliform bacterial contamination. None of the fecal coliform samples collected at this site during the survey indicate that there is a problem.

The constructed wetlands below the village of Zuni were recently built and just being vegetated during this survey. Unfortunately, samples were only able to be collected at both the pipeline inflow and west pond on one day, however, a large reduction in ammonia, TKN, phosphorus and turbidity was evident.

Without exception, all NMED Surface Water Quality Bureau staff involved with this survey enjoyed working with the members of the Zuni Pueblo Environment Department and appreciated the opportunity to work on the Pueblo of Zuni.

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Appendices:

APPENDIX A 1

Summary of Field Results – non Pueblo Sites

WATER QUALITY SURVEY SUMMARY OF THE

RIO NUTRIA AND RIO PESCADO WATERSHEDS

ABOVE AND WITHIN ZUNI PUEBLO

April – November 2004

Monitoring and Assessment Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

February 2007

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Appendix A1. Field Data Summary - Non Pueblo Sites

Sample site	Collection date/time	pH	Specific Conductance (µS/cm)	Temp (ºC)	DO (mg/L)	DO (%sat)	Turb (NTU)	Field notes
Rio Nutria above Tampico Draw	5/3/2004 15:02	7.36	347	11.54	2.93	33.1	7.2	Q~0.1-0.2 cfs
Tampico Draw above Rio Nutria	5/3/2004 14:46	7.67	360	14.2	9.68	120.5	0	Q~0.1-0.2 cfs
Tampico Draw above Rio Nutria	6/9/2004 13:35	7.8	642	16.3	10.88	145	0	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw above Rio Nutria	7/14/2004 11:30	7.65	650	13.8	8.8	84	0	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw above Rio Nutria	9/14/2004 12:30	7.55	667	12.92	8.55	103.1	0	No surface flow; all inputs from seeps and groundwater. Recent high flow event.

Access issues such as impassable roads and locked gates, in addition to the Rio Nutria going dry after May, prevented more extensive sampling at these sites.

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APPENDIX A 2

Summary of Lab Results – non Pueblo Sites

WATER QUALITY SURVEY SUMMARY OF THE

RIO NUTRIA AND RIO PESCADO WATERSHEDS

ABOVE AND WITHIN ZUNI PUEBLO

April – November 2004

Monitoring and Assessment Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

February 2007

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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Alkalinity	310.1	167	mg/L	2.5	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Aluminum	200.8	0.02	mg/L	0.01	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Antimony	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Arsenic	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Barium	200.8	0.1	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Bicarbonate	310.1	204	mg/L	3	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Boron	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Calcium	200.7	57	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Calcium	200.7	57.8	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Calcium	200.7	56	mg/L	1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Carbonate	310.1	0	mg/L	0	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Chloride	300	10	mg/L	10	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Chromium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	COD	8000	5	mg/L	5	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Copper	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Fluoride	340.2	0.143	mg/L	0	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Hardness	200.7	202	mg/L CaCO3	6.6	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Iron	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Magnesium	200.7	14	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Magnesium	200.7	13.9	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Magnesium	200.7	13	mg/L	1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Manganese	200.8	0.022	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Manganese	200.8	0.031	mg/L	0.001	False	H	Q~0.1-0.2 cfs

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Phosphorous, Total	365.4	0.0368	mg/L	0.03	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Potassium	200.7	5	mg/L	1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Silicon	200.7	5.6	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Silicon	200.7	5.4	mg/L	0.1	False	A H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Silver	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Sodium	200.7	5.73	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Strontium	200.7	0.2	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Strontium	200.7	0.2	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Sulfate	300	17.9	mg/L	10	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Tin	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Total Dissolved Solids	160.1	244	mg/L	10	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Total Kjehldal Nitrogen	351.2	0.49	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Total Suspended Solids	160.2	3	mg/L	3	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Uranium	200.8	0.003	mg/L	0.001	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Vanadium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	SVOC	1,4-Dichlorobenzene	8270	0.22	ug/L	0.05	False	U	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Alkalinity	310.1	157	mg/L	2.5	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Alkalinity	310.1	266	mg/L	2.5	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Aluminum	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Aluminum	200.8	0.01	mg/L	0.01	False	C H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Aluminum	200.8	0.08	mg/L	0.01	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Aluminum	200.8	0.01	mg/L	0.01	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Ammonia	350.1	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Antimony	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Arsenic	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Arsenic	200.8	0.001	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Barium	200.8	0.2	mg/L	0.1	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Barium	200.8	0.2	mg/L	0.1	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Barium	200.8	0.2	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Bicarbonate	310.1	191	mg/L	3	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Bicarbonate	310.1	324	mg/L	3	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.36	ug/L	0.2	False	B	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.34	ug/L	0.2	True	J,B	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Boron	200.7	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Boron	200.7	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs

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D-spike recovery < 80% or > 120%
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Calcium	200.7	51.5	mg/L	1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Calcium	200.7	53	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Calcium	200.7	51	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Calcium	200.7	83.5	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Calcium	200.7	96	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Calcium	200.7	97	mg/L	1	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Calcium	200.7	82.5	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Calcium	200.7	110	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Calcium	200.7	95	mg/L	1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Calcium	200.7	93	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Calcium	200.7	62.5	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Carbonate	310.1	0	mg/L	0	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Carbonate	310.1	0	mg/L	0	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Chloride	300	10	mg/L	10	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Chloride	300	10	mg/L	10	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Chromium	200.8	0.002	mg/L	0.001	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Chromium	200.8	0.002	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Chromium	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False	C H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	COD	8000	5	mg/L	5	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Copper	200.8	0.01	mg/L	0.01	True	H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Copper	200.8	0.01	mg/L	0.01	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Copper	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cyanide	335.4	0.005	mg/L	0.005	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Fluoride	340.2	0.478	mg/L	0	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Fluoride	340.2	0.409	mg/L	0	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Fluoride	340.2	0.378	mg/L	0	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Fluoride	340.2	0.421	mg/L	0	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Hardness	200.7	183	mg/L CaCO3	6.6	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Hardness	200.7	306	mg/L CaCO3	6.6	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Hardness	200.7	303	mg/L CaCO3	6.6	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Hardness	200.7	253	mg/L CaCO3	6.6	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Iron	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Iron	200.7	0.1	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Iron	200.7	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Lead	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Lead	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Magnesium	200.7	13.2	mg/L	1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Magnesium	200.7	14	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Magnesium	200.7	13	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Magnesium	200.7	23.7	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Magnesium	200.7	22	mg/L	1	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Magnesium	200.7	22	mg/L	1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Magnesium	200.7	23.6	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Magnesium	200.7	23	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Magnesium	200.7	24	mg/L	1	False	D H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Magnesium	200.7	23	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Magnesium	200.7	23.4	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Manganese	200.8	0.008	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Manganese	200.8	0.013	mg/L	0.001	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Manganese	200.8	0.004	mg/L	0.001	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Manganese	200.8	0.004	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Manganese	200.8	0.005	mg/L	0.001	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Manganese	200.8	0.004	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Manganese	200.8	0.003	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Nickel	200.8	0.01	mg/L	0.01	True	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Nitrate+ NItrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Phosphorous, Total	365.4	0.03	mg/L	0.03	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Phosphorous, Total	365.4	0.03	mg/L	0.03	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Phosphorous, Total	365.4	0.0424	mg/L	0.03	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
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C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Phosphorous, Total	365.4	0.036	mg/L	0.03	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Potassium	200.7	5	mg/L	1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Potassium	200.7	5	mg/L	1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Silicon	200.7	4.9	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Silicon	200.7	4.8	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Silicon	200.7	5.6	mg/L	0.1	False	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Silicon	200.7	5.4	mg/L	0.1	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Silicon	200.7	6.2	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Silicon	200.7	5.4	mg/L	0.1	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Silicon	200.7	5.5	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Silver	200.8	0.001	mg/L	0.001	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Silver	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Silver	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Sodium	200.7	13.2	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Sodium	200.7	13.8	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Strontium	200.7	0.2	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Strontium	200.7	0.2	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	D	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Strontium	200.7	0.5	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Strontium	200.7	0.6	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	D H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Strontium	200.7	0.5	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Sulfate	300	30.3	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Sulfate	300	90.1	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Thallium	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Tin	200.7	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	A D	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Tin	200.7	0.1	mg/L	0.1	True	H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Tin	200.7	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Total Dissolved Solids	160.1	250	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Total Dissolved Solids	160.1	434	mg/L	10	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Total Dissolved Solids	160.1	456	mg/L	10	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Total Dissolved Solids	160.1	434	mg/L	10	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Total Kjehldal Nitrogen	351.2	0.378	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.

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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Total Kjehldal Nitrogen	351.2	0.236	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Total Kjehldal Nitrogen	351.2	0.273	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Total Kjehldal Nitrogen	351.2	0.232	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Total Suspended Solids	160.2	3	mg/L	3	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Total Suspended Solids	160.2	4	mg/L	3	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Total Suspended Solids	160.2	6	mg/L	3	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Total Suspended Solids	160.2	3	mg/L	3	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Uranium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Uranium	200.8	0.002	mg/L	0.001	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Uranium	200.8	0.002	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Uranium	200.8	0.002	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Vanadium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Vanadium	200.8	0.001	mg/L	0.001	False	A C H S	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Vanadium	200.8	0.001	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Vanadium	200.8	0.002	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	H	
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Zinc	200.8	0.01	mg/L	0.01	True	C	
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		

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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Alkalinity	310.1	167	mg/L	2.5	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Aluminum	200.8	0.02	mg/L	0.01	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Antimony	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Arsenic	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Barium	200.8	0.1	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Bicarbonate	310.1	204	mg/L	3	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Boron	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Calcium	200.7	57	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Calcium	200.7	57.8	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Calcium	200.7	56	mg/L	1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Carbonate	310.1	0	mg/L	0	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Chloride	300	10	mg/L	10	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Chromium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	COD	8000	5	mg/L	5	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Copper	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Fluoride	340.2	0.143	mg/L	0	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Hardness	200.7	202	mg/L CaCO3	6.6	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Iron	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Magnesium	200.7	14	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Magnesium	200.7	13.9	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Magnesium	200.7	13	mg/L	1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Manganese	200.8	0.022	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Manganese	200.8	0.031	mg/L	0.001	False	H	Q~0.1-0.2 cfs

Qualifier Codes:

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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Phosphorous, Total	365.4	0.0368	mg/L	0.03	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Potassium	200.7	5	mg/L	1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Silicon	200.7	5.6	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Silicon	200.7	5.4	mg/L	0.1	False	A H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Silver	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Sodium	200.7	5.73	mg/L	1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Strontium	200.7	0.2	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Strontium	200.7	0.2	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Sulfate	300	17.9	mg/L	10	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Tin	200.7	0.1	mg/L	0.1	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Total Dissolved Solids	160.1	244	mg/L	10	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Total Kjehldal Nitrogen	351.2	0.49	mg/L	0.1	False		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Ions	Total Suspended Solids	160.2	3	mg/L	3	True		Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Uranium	200.8	0.003	mg/L	0.001	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Vanadium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Rio Nutria abv Tampico Draw	5/3/2004 15:02	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	SVOC	1,4-Dichlorobenzene	8270	0.22	ug/L	0.05	False	U	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Alkalinity	310.1	157	mg/L	2.5	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Alkalinity	310.1	266	mg/L	2.5	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Aluminum	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Aluminum	200.8	0.01	mg/L	0.01	False	C H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Aluminum	200.8	0.08	mg/L	0.01	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Aluminum	200.8	0.01	mg/L	0.01	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Ammonia	350.1	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Antimony	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Arsenic	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Arsenic	200.8	0.001	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Barium	200.8	0.1	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Barium	200.8	0.2	mg/L	0.1	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Barium	200.8	0.2	mg/L	0.1	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Barium	200.8	0.2	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Bicarbonate	310.1	191	mg/L	3	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Bicarbonate	310.1	324	mg/L	3	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.36	ug/L	0.2	False	B	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.34	ug/L	0.2	True	J,B	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Boron	200.7	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Boron	200.7	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Cadmium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Calcium	200.7	51.5	mg/L	1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Calcium	200.7	53	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Calcium	200.7	51	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Calcium	200.7	83.5	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Calcium	200.7	96	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Calcium	200.7	97	mg/L	1	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Calcium	200.7	82.5	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Calcium	200.7	110	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Calcium	200.7	95	mg/L	1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Calcium	200.7	93	mg/L	1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Calcium	200.7	62.5	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Carbonate	310.1	0	mg/L	0	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Carbonate	310.1	0	mg/L	0	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Chloride	300	10	mg/L	10	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Chloride	300	10	mg/L	10	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Chromium	200.8	0.002	mg/L	0.001	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Chromium	200.8	0.002	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Chromium	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Cobalt	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False	C H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	COD	8000	5	mg/L	5	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Copper	200.8	0.01	mg/L	0.01	True	H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Copper	200.8	0.01	mg/L	0.01	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Copper	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Cyanide	335.4	0.005	mg/L	0.005	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Fluoride	340.2	0.478	mg/L	0	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Fluoride	340.2	0.409	mg/L	0	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Fluoride	340.2	0.378	mg/L	0	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Fluoride	340.2	0.421	mg/L	0	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Hardness	200.7	183	mg/L CaCO3	6.6	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Hardness	200.7	306	mg/L CaCO3	6.6	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Hardness	200.7	303	mg/L CaCO3	6.6	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Hardness	200.7	253	mg/L CaCO3	6.6	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Iron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Iron	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Iron	200.7	0.1	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Iron	200.7	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Lead	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Lead	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Lead	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Magnesium	200.7	13.2	mg/L	1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Magnesium	200.7	14	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Magnesium	200.7	13	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Magnesium	200.7	23.7	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Magnesium	200.7	22	mg/L	1	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Magnesium	200.7	22	mg/L	1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Magnesium	200.7	23.6	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Magnesium	200.7	23	mg/L	1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Magnesium	200.7	24	mg/L	1	False	D H	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Magnesium	200.7	23	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Magnesium	200.7	23.4	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Manganese	200.8	0.008	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Manganese	200.8	0.013	mg/L	0.001	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Manganese	200.8	0.004	mg/L	0.001	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Manganese	200.8	0.004	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Manganese	200.8	0.005	mg/L	0.001	False	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Manganese	200.8	0.004	mg/L	0.001	False	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Manganese	200.8	0.003	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Nickel	200.8	0.01	mg/L	0.01	True	C	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Nitrate+ NItrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Phosphorous, Total	365.4	0.03	mg/L	0.03	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Phosphorous, Total	365.4	0.03	mg/L	0.03	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Phosphorous, Total	365.4	0.0424	mg/L	0.03	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Phosphorous, Total	365.4	0.036	mg/L	0.03	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Potassium	200.7	5	mg/L	1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Potassium	200.7	5	mg/L	1	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Silicon	200.7	4.9	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Silicon	200.7	4.8	mg/L	0.1	False	A	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Silicon	200.7	5.6	mg/L	0.1	False	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Silicon	200.7	5.4	mg/L	0.1	False	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Silicon	200.7	6.2	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Silicon	200.7	5.4	mg/L	0.1	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Silicon	200.7	5.5	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Silver	200.8	0.001	mg/L	0.001	True	H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Silver	200.8	0.001	mg/L	0.001	True	C	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Silver	200.8	0.001	mg/L	0.001	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Sodium	200.7	13.2	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Sodium	200.7	13.8	mg/L	1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Strontium	200.7	0.2	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Strontium	200.7	0.2	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	D	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Strontium	200.7	0.5	mg/L	0.1	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Strontium	200.7	0.6	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	D H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Strontium	200.7	0.5	mg/L	0.1	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Sulfate	300	30.3	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Sulfate	300	90.1	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Thallium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

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C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
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Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Thallium	200.8	0.001	mg/L	0.001	True	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Tin	200.7	0.1	mg/L	0.1	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	A D	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Tin	200.7	0.1	mg/L	0.1	True	H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Tin	200.7	0.1	mg/L	0.1	True		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Total Dissolved Solids	160.1	250	mg/L	10	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Total Dissolved Solids	160.1	434	mg/L	10	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Total Dissolved Solids	160.1	456	mg/L	10	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Total Dissolved Solids	160.1	434	mg/L	10	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Total Kjehldal Nitrogen	351.2	0.378	mg/L	0.1	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Total Kjehldal Nitrogen	351.2	0.236	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Total Kjehldal Nitrogen	351.2	0.273	mg/L	0.1	False		Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Ions	Total Kjehldal Nitrogen	351.2	0.232	mg/L	0.1	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Ions	Total Suspended Solids	160.2	3	mg/L	3	True		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Ions	Total Suspended Solids	160.2	4	mg/L	3	False		Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Ions	Total Suspended Solids	160.2	6	mg/L	3	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Total Suspended Solids	160.2	3	mg/L	3	True		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Uranium	200.8	0.001	mg/L	0.001	True	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Uranium	200.8	0.002	mg/L	0.001	False	C H	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Uranium	200.8	0.002	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Uranium	200.8	0.002	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Vanadium	200.8	0.002	mg/L	0.001	False	H	Q~0.1-0.2 cfs
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False		No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

Appendix A2. Lab Results Summary - Non Pueblo Sites

Sample site	Collection Date/Time	Fraction	Analyte	Method	Result	Units	Sample Detection Limit	Less Than	Qualifier	Field Notes
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Vanadium	200.8	0.001	mg/L	0.001	False	A C H S	No flow where path descending from cliffs meets water - standing pools only. 0.1-0.2 cfs @ confluence. ZBH in usual pool, plus next pool blw.
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Vanadium	200.8	0.001	mg/L	0.001	False	C	Rained previous day. No flow above station, so flow due to seeps &/or groundwater input. Rio Nutria dry above confluence.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	C H	No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Vanadium	200.8	0.002	mg/L	0.001	False		No surface flow; all inputs from seeps and groundwater. Recent high flow event.
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	H	
Tampico Draw abv Rio Nutria	5/3/2004 14:46	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		
Tampico Draw abv Rio Nutria	6/9/2004 13:35	Total	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Tampico Draw abv Rio Nutria	7/14/2004 11:30	Total	Zinc	200.8	0.01	mg/L	0.01	True	C	
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Tampico Draw abv Rio Nutria	9/14/2004 12:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		

Qualifier Codes:

A-see comments section
B-analyte detected in lab blank
C-spike recovery between 80 and 120%
D-spike recovery < 80% or > 120%
H-sample analyzed in duplicate
J-estimated quantity only

APPENDIX B 1

Summary of Field Results – Zuni Pueblo Sites

WATER QUALITY SURVEY SUMMARY OF THE

RIO NUTRIA AND RIO PESCADO WATERSHEDS

ABOVE AND WITHIN ZUNI PUEBLO

April – November 2004

Monitoring and Assessment Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

February 2007

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Appendix B1. Field Data Summary - Zuni Pueblo Sites

Sample site	Collection date/time	pH	Soecific Conductance(µS/cm)	Temp (ºC)	DO (mg/L)	DO (%sat)	Turb (NTU)	Field notes
Anthony Hooee Spring	4/6/2004 13:15	8.53	624	8.19	7.06	76.6	0	Spring box not flushing - water stagnant.
Anthony Hooee Spring	5/4/2004 13:34	9.24	658	11.63	12.44	149	0	Overflow from spring box just a trickle.
Constructed wetlands at pipeline inflow	11/3/2004 9:10	6.59	1725	5.44	3.95	45.4	254	
Constructed wetlands at west pond	4/6/2004 16:30	7.92	1156	12.12	2.13	26.8	46.5	
Constructed wetlands at west pond	5/4/2004 14:10	8.19	1402	15.1	2.21	29	420	
Constructed wetlands at west pond	7/14/2004 14:50	8.66	1000	25.5	17.3	213	260	
Constructed wetlands at west pond	11/3/2004 9:30	7.47	1598	4.24	13.33	128.9	81.9	
Plumasano Wash below dump	4/6/2004 15:50	7.4	1438	17.21	8.33	110.7	32.9	
Plumasano Wash below dump	5/4/2004 14:50	7.82	1442	22.3	8.35	126.5	0	
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	7.45	359	9.24	8.7	99.5	73.9	
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	7.56	678	13.67	5.15	64.3	50	Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	7.56	633	15.65	5.46	69	8.3	Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	7.33	640	17.7	6.06	60	5	No flow. Stagnant pools only.
Rio Nutria 100 yards above USGS gage	4/6/2004 12:15	7.14	180	8.1	8.88	95.8	65.6	Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yards above USGS gage	5/4/2004 11:30	7.7	499	12.95	6.28	77	1	Samples collected at old gage site.
Rio Nutria 100 yards above USGS gage	6/9/2004 11:15	7.52	552	14.3	4.34	54	7.5	No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yards above USGS gage	7/14/2004 10:08	7.45	632	15	4.4	43	3.7	Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yards above USGS gage	8/11/2004 10:40	7.14	613	11.79	5.07	58.31	55.6	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yards above USGS gage	9/14/2004 11:00	7.36	637	12.88	4.79	58	32.2	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yards above USGS gage	11/3/2004 12:00	6.57	665	5.22	5.06	49.1	0	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	7.92	632	9.69	9.95	112.1	13	
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	7.79	802	8.71	8.07	90.5	8.6	Q<0.5 cfs
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	6.91	513	9.05	5.96	65.1	35.7	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	7.43	510	9.36	6.1	70.8	27.2	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	7.55	400	10.45	6.23	71	46.4	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	7.27	475	15.17	2.92	36.1	65.8	No flow; site inundated with tailwaters from irrigation diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	7.4	494	15.86	2.4	30.5	75.6	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	7.34	490	12.81	3.68	34.5	179.7	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 13:50	7.42	506	15.3	5.12	64.5	166.6	Second sonde reading for the day
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	6.88	524	4.74	6.22	60.8	74.7	
Unnamed arroyo below Black Rock dip vat	5/4/2004 16:00	7.66	855	15.85	3.36	44.3	21.1	Water fairly stagnant; no visible flow.
Upper Nutria Diversion Reservoir	4/6/2004 11:30	7.31	267	11.81	7.2	85.2	149.2	Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	8.29	307	17.7	12.13	166.9	35.7	Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	8.8	278	18.56	14.7	200	15.6	
Upper Nutria Diversion Reservoir	7/14/2004 9:46	8.8	293	20.5	9.4	104	0.5	
Upper Nutria Diversion Reservoir	8/11/2004 10:00	7.59	478	20.44	2.17	35	3.3	Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	7.6	416	17.25	5.09	68	15.2	Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	6.69	470	5.55	8.67	83.4	17.8	
Upper Pescado Spring at pipeline discharge	4/6/2004 9:30	7.55	441	10.81	7.92	94.5	0	

Appendix B1. Field Data Summary - Zuni Pueblo Sites

Sample site	Collection date/time	pH	Soecific Conductance(µS/cm)	Temp (ºC)	DO (mg/L)	DO (%sat)	Turb (NTU)	Field notes
Upper Pescado Spring at pipeline discharge	5/4/2004 9:56	7.77	451	14.42	7.72	99.3	0	
Upper Pescado Spring at pipeline discharge	6/9/2004 9:10	7.66	442	15.75	10.11	129.5	0	
Upper Pescado Spring at pipeline discharge	8/11/2004 8:50	7.67	448	18.15	7.47	101	0	
Upper Pescado Spring at pipeline discharge	9/14/2004 9:30	7.48	443	15.28	7.72	99.2	0	
Upper Pescado Spring in east Pond	4/6/2004 9:45	7.66	440	12.67	7.18	85.7	0	
Upper Pescado Spring in east Pond	6/9/2004 8:45	7.54	440	12.78	10.15	122	0	
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	7.59	780	13.89	7.29	90	52.1	
Zuni River above Estace Reservoir	4/6/2004 14:50	7.52	1293	17.97	8.73	117.6	9.7	
Zuni River below confluence of Rio Pescado & Rio Nutria	4/6/2004 14:00	7.62	703	12.71	8.5	102.6	55.8	No flow from Nutria.

APPENDIX B 2

Summary of Lab Results – Zuni Pueblo Sites

WATER QUALITY SURVEY SUMMARY OF THE

RIO NUTRIA AND RIO PESCADO WATERSHEDS

ABOVE AND WITHIN ZUNI PUEBLO

April – November 2004

Monitoring and Assessment Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

February 2007

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Anthony Hooee Spring	4/6/2004 13:15	Total	Aluminum	200.8	0.01	mg/L	0.01	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Antimony	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Arsenic	206.2	0.1	mg/L	0.01	False	C	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Arsenic	206.2	0.1	mg/L	0.01	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Barium	200.8	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	5/4/2004 13:34	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.21	ug/L	0.2	True	J,B	Overflow from spring box just a trickle.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Boron	200.7	0.1	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Boron	200.7	0.2	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	Calcium	200.7	106	mg/L	1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Calcium	200.7	3	mg/L	1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Calcium	200.7	4	mg/L	1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Chromium	200.8	0.003	mg/L	0.001	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Copper	200.8	0.01	mg/L	0.01	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	Fluoride	340.2	0.594	mg/L	0	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	Hardness	200.7	483	mg/L CaCO3	6.6	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Iron	236.1	0.12	mg/L	0.05	False	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Iron	200.7	0.2	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Lead	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	Magnesium	200.7	52.9	mg/L	1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Magnesium	200.7	1	mg/L	1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Magnesium	200.7	1	mg/L	1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Manganese	200.8	0.005	mg/L	0.001	False	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Manganese	200.8	0.007	mg/L	0.001	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		Spring box not flushing - water stagnant.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Nickel	200.8	0.01	mg/L	0.01	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Phosphorous	365.4	0.076	mg/L	0.03	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Silicon	200.7	5.2	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Silicon	200.7	6.4	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Silver	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Strontium	200.7	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Strontium	200.7	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Thallium	200.8	0.001	mg/L	0.001	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Tin	200.7	0.1	mg/L	0.1	True		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	TDS	160.1	406	mg/L	10	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	TKN	351.2	0.248	mg/L	0.1	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Ions	TSS	160.2	3	mg/L	3	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Uranium	200.8	0.002	mg/L	0.001	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Vanadium	200.8	0.003	mg/L	0.001	False		Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	Spring box not flushing - water stagnant.
Anthony Hooee Spring	4/6/2004 13:15	Total	Zinc	200.8	0.01	mg/L	0.01	True		Spring box not flushing - water stagnant.
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Aluminum	200.8	0.02	mg/L	0.01	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Aluminum	200.8	0.09	mg/L	0.02	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Ammonia	350.1	21.6	mg/L	1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Arsenic	200.8	0.003	mg/L	0.001	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Arsenic	200.8	0.005	mg/L	0.005	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Barium	200.8	0.1	mg/L	0.1	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Boron	200.7	0.2	mg/L	0.1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Boron	200.7	0.2	mg/L	0.1	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	Calcium	200.7	210	mg/L	1	False		

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
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F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Calcium	200.7	140	mg/L	1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Calcium	200.7	150	mg/L	1	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Chromium	200.8	0.002	mg/L	0.002	True	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Copper	200.8	0.01	mg/L	0.01	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		
Constructed wetlands @ pipeline inflow	11/4/2004 8:45	Bacteria	Fecals	9222-D	2600	/100ml		False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	Fluoride	340.2	1.02	mg/L	0	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	Hardness	200.7	773	mg/L CaCO3	6.6	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Iron	200.7	0.2	mg/L	0.1	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	Magnesium	200.7	60.5	mg/L	1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Magnesium	200.7	41	mg/L	1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Magnesium	200.7	43	mg/L	1	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Manganese	200.8	0.045	mg/L	0.001	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Manganese	200.8	0.048	mg/L	0.001	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Nickel	200.8	0.01	mg/L	0.01	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Phosphorous,	365.4	4.38	mg/L	0.75	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Silicon	200.7	9.3	mg/L	0.1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Silicon	200.7	9.3	mg/L	0.1	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	D H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Strontium	200.7	1.3	mg/L	0.1	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Strontium	200.7	1.5	mg/L	0.1	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Tin	200.7	0.1	mg/L	0.1	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	TDS	160.1	990	mg/L	10	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	TKN	351.2	39.5	mg/L	2.5	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Ions	TSS	160.2	28	mg/L	3	False		
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Uranium	200.8	0.002	mg/L	0.001	False	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Vanadium	200.8	0.002	mg/L	0.002	True	H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Total	Zinc	200.8	0.01	mg/L	0.01	False	C H	
Constructed wetlands @ pipeline inflow	11/3/2004 9:10	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Alkalinity	310.1	439	mg/L	2.5	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Aluminum	200.8	0.07	mg/L	0.01	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Aluminum	200.8	0.06	mg/L	0.01	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Aluminum	200.7	3.3	mg/L	0.1	False	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Aluminum	200.7	1.8	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Aluminum	200.8	0.12	mg/L	0.01	False	A	
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Aluminum	200.8	0.49	mg/L	0.01	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Ammonia	350.1	11.6	mg/L	0.5	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Ammonia	350.1	9.51	mg/L	0.1	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Ammonia	350.1	0.731	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Ammonia	350.1	3.37	mg/L	0.5	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Antimony	200.8	0.001	mg/L	0.001	True	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Arsenic	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Arsenic	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Arsenic	200.8	0.004	mg/L	0.001	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Arsenic	200.8	0.004	mg/L	0.001	False	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Arsenic	200.8	0.004	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	A	
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Arsenic	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Barium	200.8	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Barium	200.8	0.1	mg/L	0.1	False	C R	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Barium	200.8	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Barium	200.8	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Bicarbonate	310.1	535	mg/L	3	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Boron	200.7	0.2	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Boron	200.7	0.2	mg/L	0.1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Boron	200.7	0.3	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Boron	200.7	0.3	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Boron	200.7	0.4	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Boron	200.7	0.3	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Boron	200.7	0.3	mg/L	0.1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	Calcium	200.7	139	mg/L	1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Calcium	200.7	110	mg/L	1	False	H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Calcium	200.7	110	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Calcium	200.7	135	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Calcium	200.7	130	mg/L	1	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Calcium	200.7	140	mg/L	1	False	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	Calcium	200.7	122	mg/L	1	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Calcium	200.7	110	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	Calcium	200.7	116	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Calcium	200.7	130	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Calcium	200.7	130	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Carbonate	310.1	0	mg/L	0	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Chloride	300	144	mg/L	10	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Chromium	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Chromium	200.8	0.004	mg/L	0.001	False	C R	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Chromium	200.8	0.003	mg/L	0.001	False		

Qualifier Codes:
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Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Chromium	200.8	0.005	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Chromium	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Cobalt	200.8	0.001	mg/L	0.001	False	C R	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Cobalt	200.8	0.001	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Copper	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Copper	200.8	0.02	mg/L	0.01	False	C R	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Copper	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Copper	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Cyanide	335.4	0.005	mg/L	0.005	True		
Constructed wetlands @ West pond	7/14/2004 14:50	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		
Constructed wetlands @ West pond	11/3/2004 9:30	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		
Constructed wetlands @ West pond	4/7/2004 8:15	Bacteria	Fecals	9222-D	29	/100ml		False		
Constructed wetlands @ West pond	5/5/2004 8:25	Bacteria	Fecals	9222-D	10	/100ml		True		
Constructed wetlands @ West pond	11/4/2004 8:40	Bacteria	Fecals	9222-D	1	/100ml		True		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	Fluoride	340.2	0.503	mg/L	0	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Fluoride	340.2	0.522	mg/L	0	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	Fluoride	340.2	0.697	mg/L	0	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	Fluoride	340.2	0.99	mg/L	0	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	Hardness	200.7	544	mg/L CaCO3	0	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Hardness	200.7	546	mg/L CaCO3	6.6	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	Hardness	200.7	574	mg/L CaCO3	6.6	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	Hardness	200.7	497	mg/L CaCO3	6.6	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Iron	236.1	0.05	mg/L	0.05	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Iron	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Iron	200.7	1.2	mg/L	0.1	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Iron	200.7	0.7	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Iron	200.7	0.2	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		

Qualifier Codes:
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Lead	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Lead	200.8	0.003	mg/L	0.001	False	A C R S	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Lead	200.8	0.001	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Lead	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	Magnesium	200.7	47.7	mg/L	1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Magnesium	200.7	40	mg/L	1	False	H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Magnesium	200.7	41	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Magnesium	200.7	50.7	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Magnesium	200.7	49	mg/L	1	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Magnesium	200.7	53	mg/L	1	False	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	Magnesium	200.7	65.4	mg/L	1	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Magnesium	200.7	60	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	Magnesium	200.7	50.6	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Magnesium	200.7	56	mg/L	1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Magnesium	200.7	54	mg/L	1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Manganese	200.8	0.04	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Manganese	200.7	0.07	mg/L	0.05	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Manganese	200.8	0.017	mg/L	0.001	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Manganese	200.7	0.15	mg/L	0.05	False	C H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Manganese	200.7	0.15	mg/L	0.05	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Manganese	200.8	0.016	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Manganese	200.8	0.048	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Molybdenum	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Molybdenum	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Molybdenum	200.8	0.004	mg/L	0.001	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Molybdenum	200.8	0.004	mg/L	0.001	False	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Molybdenum	200.8	0.006	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Molybdenum	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Molybdenum	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Nickel	200.8	0.01	mg/L	0.01	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Nitrate+ Nitrite (N)	353.2	0.68	mg/L	0.1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Phosphorous	365.4	2.91	mg/L	0.3	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Phosphorous	365.4	4.9	mg/L	0.15	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Phosphorous	365.4	3.88	mg/L	0.75	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Phosphorous	365.4	1.83	mg/L	0.3	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Potassium	200.7	31.5	mg/L	1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Selenium	270.2	0.005	mg/L	0.005	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Silicon	200.7	9.8	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Silicon	200.7	10	mg/L	0.1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Silicon	200.7	8.9	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Silicon	200.7	16	mg/L	0.1	False	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Silicon	200.7	15	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Silicon	200.7	9.2	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Silicon	200.7	9.9	mg/L	0.1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Silver	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Silver	200.8	0.001	mg/L	0.001	True	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Silver	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Silver	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Sodium	200.7	145	mg/L	10	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Strontium	200.7	1.3	mg/L	0.1	False	H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Strontium	200.7	1.3	mg/L	0.1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Strontium	200.7	1.6	mg/L	0.1	False	C H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Strontium	200.7	1.7	mg/L	0.1	False	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Strontium	200.7	1.7	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Strontium	200.7	1.8	mg/L	0.1	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Strontium	200.7	1.8	mg/L	0.1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	Sulfate	300	296	mg/L	20	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Thallium	200.8	0.001	mg/L	0.001	True	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Tin	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Tin	200.7	0.1	mg/L	0.1	True	H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Tin	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Tin	200.7	0.1	mg/L	0.1	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	TDS	160.1	1100	mg/L	10	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	TDS	160.1	1260	mg/L	10	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	TDS	160.1	740	mg/L	10	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	TDS	160.1	1100	mg/L	10	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	TKN	351.2	20.5	mg/L	1	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Total	TKN	351.2	3.65	mg/L	0.1	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Total	TKN	351.2	30	mg/L	2.5	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	TKN	351.2	16.3	mg/L	1	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Ions	TSS	160.2	21	mg/L	3	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Ions	TSS	160.2	174	mg/L	3	False		
Constructed wetlands @ West pond	7/14/2004 14:50	Ions	TSS	160.2	123	mg/L	3	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Ions	TSS	160.2	40	mg/L	3	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Uranium	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Uranium	200.8	0.003	mg/L	0.001	False	R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Uranium	200.8	0.005	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Uranium	200.8	0.004	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Vanadium	200.8	0.001	mg/L	0.001	True		
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Vanadium	200.8	0.006	mg/L	0.001	False	C R	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Vanadium	200.8	0.006	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Vanadium	200.8	0.004	mg/L	0.001	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Vanadium	200.8	0.004	mg/L	0.001	False		
Constructed wetlands @ West pond	4/6/2004 16:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	4/6/2004 16:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Constructed wetlands @ West pond	5/4/2004 14:10	Dissolved	Zinc	200.8	0.01	mg/L	0.01	False	H	
Constructed wetlands @ West pond	5/4/2004 14:10	Total	Zinc	200.8	0.05	mg/L	0.01	False	C H	
Constructed wetlands @ West pond	7/14/2004 14:50	Total	Zinc	200.8	0.02	mg/L	0.01	False		
Constructed wetlands @ West pond	11/3/2004 9:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		
Constructed wetlands @ West pond	11/3/2004 9:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Plumasano Wash below dump	4/6/2004 15:50	Total	Aluminum	200.8	0.06	mg/L	0.01	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Arsenic	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Barium	200.8	0.1	mg/L	0.1	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	5/4/2004 14:50	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.39	ug/L	0.19	True	U	
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Boron	200.7	0.2	mg/L	0.1	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Boron	200.7	0.3	mg/L	0.1	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Ions	Calcium	200.7	106	mg/L	1	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Calcium	200.7	140	mg/L	1	False	H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Calcium	200.7	180	mg/L	1	False		
Plumasano Wash below dump	4/6/2004 15:50	Total	Chromium	200.8	0.003	mg/L	0.001	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Copper	200.8	0.01	mg/L	0.01	True		
Plumasano Wash below dump	4/7/2004 7:50	Bacteria	Fecals	9222-D	47	/100ml		False		
Plumasano Wash below dump	4/6/2004 15:50	Ions	Fluoride	340.2	0.461	mg/L	0	False		
Plumasano Wash below dump	4/6/2004 15:50	Ions	Hardness	200.7	483	mg/L CaCO3	6.6	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Iron	236.1	0.05	mg/L	0.05	True		
Plumasano Wash below dump	4/6/2004 15:50	Total	Iron	200.7	0.1	mg/L	0.1	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Lead	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Ions	Magnesium	200.7	52.9	mg/L	1	False		

Qualifier Codes:
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B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Magnesium	200.7	51	mg/L	1	False	H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Magnesium	200.7	60	mg/L	1	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Manganese	200.8	0.014	mg/L	0.001	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Manganese	200.8	0.017	mg/L	0.001	False		
Plumasano Wash below dump	4/6/2004 15:50	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Plumasano Wash below dump	4/6/2004 15:50	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Plumasano Wash below dump	4/6/2004 15:50	Total	Phosphorous,	365.4	0.03	mg/L	0.03	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Plumasano Wash below dump	4/6/2004 15:50	Total	Selenium	270.2	0.005	mg/L	0.005	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Silicon	200.7	6.4	mg/L	0.1	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Silicon	200.7	8	mg/L	0.1	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	D H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Silver	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Strontium	200.7	2.7	mg/L	0.1	False	H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Strontium	200.7	3.4	mg/L	0.1	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Tin	200.7	0.1	mg/L	0.1	True		
Plumasano Wash below dump	4/6/2004 15:50	Ions	TDS	160.1	1080	mg/L	10	False		
Plumasano Wash below dump	4/6/2004 15:50	Total	TKN	351.2	0.185	mg/L	0.1	False		
Plumasano Wash below dump	4/6/2004 15:50	Ions	TSS	160.2	3	mg/L	3	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Uranium	200.8	0.003	mg/L	0.001	False		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Vanadium	200.8	0.001	mg/L	0.001	True		
Plumasano Wash below dump	4/6/2004 15:50	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Plumasano Wash below dump	4/6/2004 15:50	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Alkalinity	310.1	331	mg/L	2.5	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Bicarbonate	310.1	403	mg/L	3	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	Calcium	200.7	56.8	mg/L	1	False		
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Calcium	200.7	73.6	mg/L	1	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	Calcium	200.7	71.8	mg/L	1	False		No flow. Stagnant pools only.

Qualifier Codes:
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Carbonate	310.1	0	mg/L	0	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Chloride	300	10	mg/L	10	True		Virtually no flow.
Rio Nutria @ Bridge to upper village	5/5/2004 9:25	Bacteria	Fecals	9222-D	1	/100ml		False		
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	Fluoride	340.2	0.284	mg/L	0	False		
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Fluoride	340.2	0.441	mg/L	0	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	Fluoride	340.2	0.451	mg/L	0	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	Hardness	200.7	206	mg/L CaCO3	0	False		
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Hardness	200.7	310	mg/L CaCO3	6.6	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	Hardness	200.7	214	mg/L CaCO3	6.6	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	Magnesium	200.7	15.6	mg/L	1	False		
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Magnesium	200.7	30.6	mg/L	1	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	Magnesium	200.7	30.9	mg/L	1	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Total	Phosphorous,	365.4	0.19	mg/L	0.03	False		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Total	Phosphorous,	365.4	0.0561	mg/L	0.03	False		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Total	Phosphorous,	365.4	0.106	mg/L	0.03	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Total	Phosphorous,	365.4	0.0798	mg/L	0.03	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Potassium	200.7	5	mg/L	1	True		Virtually no flow.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Sodium	200.7	24.5	mg/L	1	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	Sulfate	300	24.5	mg/L	10	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	TDS	160.1	290	mg/L	10	False		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Ions	TDS	160.1	378	mg/L	10	False		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	TDS	160.1	402	mg/L	10	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	TDS	160.1	420	mg/L	10	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Total	TKN	351.2	0.656	mg/L	0.1	False		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Total	TKN	351.2	0.442	mg/L	0.1	False		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Total	TKN	351.2	0.708	mg/L	0.1	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Total	TKN	351.2	0.706	mg/L	0.1	False		No flow. Stagnant pools only.
Rio Nutria @ Bridge to upper village	4/6/2004 11:10	Ions	TSS	160.2	18	mg/L	3	False		
Rio Nutria @ Bridge to upper village	5/4/2004 10:40	Ions	TSS	160.2	3	mg/L	3	False		Beaver ponds, with low flow. Sunny when sampled.
Rio Nutria @ Bridge to upper village	6/9/2004 10:10	Ions	TSS	160.2	21	mg/L	3	False		Virtually no flow.
Rio Nutria @ Bridge to upper village	7/14/2004 9:31	Ions	TSS	160.2	15	mg/L	3	False		No flow. Stagnant pools only.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Alkalinity	310.1	208	mg/L	2.5	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Alkalinity	310.1	275	mg/L	2.5	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)

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D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Aluminum	200.7	0.6	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Aluminum	200.7	1.9	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Aluminum	200.8	0.06	mg/L	0.01	False	A D H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Aluminum	200.8	0.02	mg/L	0.01	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Aluminum	200.8	0.11	mg/L	0.01	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Aluminum	200.8	0.14	mg/L	0.01	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Aluminum	200.8	0.02	mg/L	0.01	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Aluminum	200.8	0.05	mg/L	0.01	False	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Aluminum	200.8	0.03	mg/L	0.01	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Antimony	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Antimony	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Antimony	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Arsenic	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Arsenic	200.8	0.002	mg/L	0.001	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Arsenic	200.8	0.001	mg/L	0.001	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Barium	200.8	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Barium	200.8	0.1	mg/L	0.1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Barium	200.8	0.2	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Barium	200.8	0.2	mg/L	0.1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Barium	200.8	0.2	mg/L	0.1	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Barium	200.8	0.2	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Barium	200.8	0.2	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Barium	200.8	0.2	mg/L	0.1	False	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Barium	200.8	0.2	mg/L	0.1	False	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Barium	200.8	0.2	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Bicarbonate	310.1	254	mg/L	3	False		Samples collected at old gage site.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Bicarbonate	310.1	335	mg/L	3	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Boron	200.7	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Boron	200.7	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Boron	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Boron	200.7	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Cadmium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	Calcium	200.7	29.4	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Calcium	200.7	29	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Calcium	200.7	25	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Calcium	200.7	60.2	mg/L	1	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Calcium	200.7	73	mg/L	1	False	H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Calcium	200.7	69	mg/L	1	False	H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Calcium	200.7	83.2	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Calcium	200.7	84	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Calcium	200.7	88	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	Calcium	200.7	83.2	mg/L	1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Calcium	200.7	110	mg/L	1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	Calcium	200.7	79.3	mg/L	1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Calcium	200.7	89	mg/L	1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Calcium	200.7	99	mg/L	1	False	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	Calcium	200.7	64.1	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	Calcium	200.7	64.8	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Calcium	200.7	98	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Calcium	200.7	97	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Calcium	200.7	92	mg/L	1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Calcium	200.7	90	mg/L	1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	Calcium	200.7	62.9	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Calcium	200.7	94	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Calcium	200.7	94	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Carbonate	310.1	0	mg/L	0	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Carbonate	310.1	0	mg/L	0	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Chloride	300	10	mg/L	10	True		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Chloride	300	10	mg/L	10	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Chromium	200.8	0.004	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Chromium	200.8	0.005	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Chromium	200.8	0.001	mg/L	0.001	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Chromium	200.8	0.002	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Chromium	200.8	0.002	mg/L	0.001	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Chromium	200.8	0.004	mg/L	0.001	False	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Chromium	200.8	0.002	mg/L	0.001	False	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Chromium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Chromium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Cobalt	200.8	0.002	mg/L	0.001	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Copper	200.8	0.01	mg/L	0.01	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Copper	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Copper	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Copper	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Copper	200.8	0.01	mg/L	0.01	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Cyanide	335.4	0.005	mg/L	0.005	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/7/2004 9:30	Bacteria	Fecals	9222-D	8	/100ml		False		
Rio Nutria 100 yds abv USGS gage	5/5/2004 9:15	Bacteria	Fecals	9222-D	4	/100ml		False		
Rio Nutria 100 yds abv USGS gage	8/12/2004 8:20	Bacteria	Fecals	9222-D	9	/100ml		False		

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	Fluoride	340.2	0.148	mg/L	0	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Fluoride	340.2	0.297	mg/L	0	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Fluoride	340.2	0.428	mg/L	0	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	Fluoride	340.2	0.464	mg/L	0	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	Fluoride	340.2	0.378	mg/L	0	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	Fluoride	340.2	0.39	mg/L	0	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	Fluoride	340.2	0.4	mg/L	0	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	Fluoride	340.2	0.42	mg/L	0	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Radionuclides	Gross alpha (Am-241 ref.)	900	1.7	pCi/L	0.5	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Radionuclides	Gross alpha (U-nat ref.)	900	2.2	pCi/L	0.7	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Radionuclides	Gross beta (Cs-137 ref.)	900	1.8	pCi/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Radionuclides	Gross beta (Sr/Y-90 ref.)	900	1.7	pCi/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	Hardness	200.7	100	mg/L CaCO3	0	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Hardness	200.7	231	mg/L CaCO3	6.6	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Hardness	200.7	307	mg/L CaCO3	6.6	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	Hardness	200.7	236	mg/L CaCO3	6.6	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	Hardness	200.7	288	mg/L CaCO3	6.6	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	Hardness	200.7	261	mg/L CaCO3	6.6	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	Hardness	200.7	266	mg/L CaCO3	6.6	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	Hardness	200.7	259	mg/L CaCO3	6.6	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Iron	200.7	0.4	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Iron	200.7	1.1	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Iron	200.7	0.3	mg/L	0.1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Iron	200.7	0.2	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Iron	200.7	0.4	mg/L	0.1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Iron	200.7	0.8	mg/L	0.1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Iron	200.7	1.2	mg/L	0.1	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Iron	200.7	0.2	mg/L	0.1	False	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Iron	200.7	0.2	mg/L	0.1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Iron	200.7	0.2	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Lead	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Lead	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Lead	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Lead	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Lead	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	Magnesium	200.7	6.47	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Magnesium	200.7	7	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Magnesium	200.7	6	mg/L	1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Magnesium	200.7	19.6	mg/L	1	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Magnesium	200.7	21	mg/L	1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Magnesium	200.7	20	mg/L	1	False	H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Magnesium	200.7	24.2	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Magnesium	200.7	22	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Magnesium	200.7	24	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	Magnesium	200.7	24.4	mg/L	1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Magnesium	200.7	25	mg/L	1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	Magnesium	200.7	21.9	mg/L	1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Magnesium	200.7	23	mg/L	1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Magnesium	200.7	24	mg/L	1	False	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	Magnesium	200.7	24.5	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	Magnesium	200.7	25.2	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Magnesium	200.7	24	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Magnesium	200.7	23	mg/L	1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Magnesium	200.7	27	mg/L	1	False	A H S	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Magnesium	200.7	23	mg/L	1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	Magnesium	200.7	24.8	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Magnesium	200.7	25	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Magnesium	200.7	25	mg/L	1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Manganese	200.8	0.011	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Manganese	200.8	0.024	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Manganese	200.7	0.14	mg/L	0.05	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Manganese	200.7	0.13	mg/L	0.05	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Manganese	200.8	0.2	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Manganese	200.7	0.47	mg/L	0.05	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Manganese	200.7	1.5	mg/L	0.05	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Manganese	200.7	1.5	mg/L	0.05	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Manganese	200.7	0.39	mg/L	0.05	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Manganese	200.7	0.38	mg/L	0.05	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Manganese	200.7	0.37	mg/L	0.05	False	C H	No flow from surface water. Channel dry at trail crossing.

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D-spike recovery < 80% or >120%
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Manganese	200.7	0.37	mg/L	0.05	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Manganese	200.7	0.26	mg/L	0.05	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Manganese	200.7	0.24	mg/L	0.05	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Molybdenum	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Nickel	200.8	0.01	mg/L	0.01	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Nickel	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Nickel	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Samples collected at old gage site.

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Nitrate+ NItrite (N)	353.2	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Nitrate+ NItrite (N)	353.2	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Phosphorous	365.4	0.0813	mg/L	0.03	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Phosphorous,	365.4	0.0552	mg/L	0.03	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Phosphorous,	365.4	0.0461	mg/L	0.03	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Phosphorous,	365.4	0.0596	mg/L	0.03	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Phosphorous,	365.4	0.0713	mg/L	0.03	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Phosphorous,	365.4	0.241	mg/L	0.03	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Phosphorous,	365.4	0.0906	mg/L	0.03	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Phosphorous,	365.1	0.044	mg/L	0.003	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Potassium	200.7	5	mg/L	1	True		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Potassium	200.7	5	mg/L	1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Selenium	270.2	0.005	mg/L	0.005	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Selenium	270.2	0.005	mg/L	0.005	True		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.

Qualifier Codes:
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Silicon	200.7	5.4	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Silicon	200.7	7.3	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Silicon	200.7	5.3	mg/L	0.1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Silicon	200.7	5	mg/L	0.1	False	H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Silicon	200.7	5.2	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Silicon	200.7	5.5	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Silicon	200.7	7	mg/L	0.1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Silicon	200.7	6.7	mg/L	0.1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Silicon	200.7	7.2	mg/L	0.1	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Silicon	200.7	6.9	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Silicon	200.7	6.5	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Silicon	200.7	6.6	mg/L	0.1	False	C H	No flow from surface water. Channel dry at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Silicon	200.7	6.4	mg/L	0.1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Silicon	200.7	6	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Silicon	200.7	5.7	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Silver	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Silver	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Silver	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Silver	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Silver	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Sodium	200.7	16.3	mg/L	1	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Sodium	200.7	13	mg/L	1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Strontium	200.7	0.2	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Strontium	200.7	0.1	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False	C H	Samples collected at old gage site.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Strontium	200.7	0.3	mg/L	0.1	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Strontium	200.7	0.5	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Strontium	200.7	0.6	mg/L	0.1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Strontium	200.7	0.5	mg/L	0.1	False	D	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Strontium	200.7	0.5	mg/L	0.1	False	A H S	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Strontium	200.7	0.5	mg/L	0.1	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Strontium	200.7	0.5	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	Sulfate	300	46.7	mg/L	10	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	Sulfate	300	61.4	mg/L	10	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Thallium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Thallium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Thallium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Tin	200.7	0.1	mg/L	0.1	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Tin	200.7	0.1	mg/L	0.1	True	A	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Tin	200.7	0.1	mg/L	0.1	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Tin	200.7	0.1	mg/L	0.1	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Tin	200.7	0.1	mg/L	0.1	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Tin	200.7	0.1	mg/L	0.1	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Tin	200.7	0.1	mg/L	0.1	True	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Tin	200.7	0.1	mg/L	0.1	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	TDS	160.1	198	mg/L	10	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	TDS	160.1	322	mg/L	10	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	TDS	160.1	392	mg/L	10	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	TDS	160.1	436	mg/L	10	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	TDS	160.1	420	mg/L	10	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	TDS	160.1	388	mg/L	10	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	TDS	160.1	406	mg/L	10	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	TDS	160.1	404	mg/L	10	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	TKN	351.2	0.545	mg/L	0.1	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	TKN	351.2	0.247	mg/L	0.1	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	TKN	351.2	0.249	mg/L	0.1	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	TKN	351.2	0.297	mg/L	0.1	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	TKN	351.2	0.334	mg/L	0.1	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	TKN	351.2	0.388	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	TKN	351.2	0.333	mg/L	0.1	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	TKN	351.2	0.26	mg/L	0.1	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Ions	TSS	160.2	8	mg/L	3	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Ions	TSS	160.2	5	mg/L	3	False		Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Ions	TSS	160.2	3	mg/L	3	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Ions	TSS	160.2	3	mg/L	3	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Ions	TSS	160.2	3	mg/L	3	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions	TSS	160.2	3	mg/L	3	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Ions, dup	TSS	160.2	3	mg/L	3	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Ions	TSS	160.2	3	mg/L	3	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Uranium	200.8	0.001	mg/L	0.001	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Uranium	200.8	0.001	mg/L	0.001	False	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Uranium	200.8	0.001	mg/L	0.001	False	H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Uranium	200.8	0.002	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Uranium	200.8	0.002	mg/L	0.001	False		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Uranium	200.8	0.001	mg/L	0.001	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Uranium	200.8	0.001	mg/L	0.001	False	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Uranium	200.8	0.001	mg/L	0.001	False	H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Uranium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Uranium	200.8	0.001	mg/L	0.001	False	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Uranium	200.8	0.001	mg/L	0.001	False		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Vanadium	200.8	0.003	mg/L	0.001	False		Samples taken at road crossing below gage due to high water.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Vanadium	200.8	0.001	mg/L	0.001	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Vanadium	200.8	0.001	mg/L	0.001	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Vanadium	200.8	0.001	mg/L	0.001	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Vanadium	200.8	0.002	mg/L	0.001	False		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Vanadium	200.8	0.001	mg/L	0.001	True	C H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Vanadium	200.8	0.001	mg/L	0.001	False		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Vanadium	200.8	0.001	mg/L	0.001	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Vanadium	200.8	0.001	mg/L	0.001	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Dissolved	Zinc	200.8	0.02	mg/L	0.01	False		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	4/6/2004 12:15	Total	Zinc	200.8	0.01	mg/L	0.01	True		Samples taken at road crossing below gage due to high water.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	5/4/2004 11:30	Total	Zinc	200.8	0.01	mg/L	0.01	True	C H	Samples collected at old gage site.
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	6/9/2004 11:15	Total	Zinc	200.8	0.01	mg/L	0.01	True		No flow upstream of gage at usual site. Samples taken at gage Q=0.05 cfs (all groundwater)
Rio Nutria 100 yds abv USGS gage	7/14/2004 10:08	Total	Zinc	200.8	0.01	mg/L	0.01	True		Q~0.1-0.2 cfs. All groundwater; no flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Nutria 100 yds abv USGS gage	8/11/2004 10:40	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	Channel dry at trail crossing upstream of gage. Flow of about 0.05 cfs at road crossing below gage = ground water. Evidence of recent high flow. Zuni DNR said 1"/hr during storm the previous Thursday.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	9/14/2004 11:00	Total	Zinc	200.8	0.01	mg/L	0.01	True	C H	No flow from surface water. Channel dry at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria 100 yds abv USGS gage	11/3/2004 12:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		Flow barely discernable at road crossing. No surface flow at trail crossing.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Total	Ammonia	350.1	0.1	mg/L	0.1	True		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Water backed up from upper Nutria diversion reservoir.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	Calcium	200.7	37.3	mg/L	1	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	Fluoride	340.2	0.17	mg/L	0	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	Hardness	200.7	123	mg/L CaCO3	6.6	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	Magnesium	200.7	7.32	mg/L	1	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Water backed up from upper Nutria diversion reservoir.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Total	Phosphorous,	365.4	0.0644	mg/L	0.03	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Total	Phosphorous,	365.4	0.0839	mg/L	0.03	False		Water backed up from upper Nutria diversion reservoir.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	TDS	160.1	234	mg/L	10	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Ions	TDS	160.1	370	mg/L	10	False		Water backed up from upper Nutria diversion reservoir.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Total	TKN	351.2	0.499	mg/L	0.1	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Total	TKN	351.2	0.514	mg/L	0.1	False		Water backed up from upper Nutria diversion reservoir.
Rio Nutria abv Upper Nutria Reservoir	4/6/2004 11:45	Ions	TSS	160.2	6	mg/L	3	False		High turbidity from recent rains
Rio Nutria abv Upper Nutria Reservoir	5/4/2004 11:15	Ions	TSS	160.2	8	mg/L	3	False		Water backed up from upper Nutria diversion reservoir.
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q<0.5 cfs
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	Calcium	200.7	65.9	mg/L	1	False		
Rio Pescado @ BIA Road Z-7	4/7/2004 9:10	Bacteria	Fecals	9222-D	1	/100ml		False		
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	Fluoride	340.2	0.419	mg/L	0	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	Hardness	200.7	252	mg/L CaCO3	0	False		
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	Magnesium	200.7	21.4	mg/L	1	False		
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Q<0.5 cfs
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Total	Phosphorous,	365.4	0.03	mg/L	0.03	True		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Total	Phosphorous,	365.4	0.0431	mg/L	0.03	False		Q<0.5 cfs
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	TDS	160.1	438	mg/L	10	False		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Ions	TDS	160.1	516	mg/L	10	False		Q<0.5 cfs
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Total	TKN	351.2	0.43	mg/L	0.1	False		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Total	TKN	351.2	0.648	mg/L	0.1	False		Q<0.5 cfs
Rio Pescado @ BIA Road Z-7	4/6/2004 10:20	Ions	TSS	160.2	9	mg/L	3	False		
Rio Pescado @ BIA Road Z-7	5/4/2004 8:13	Ions	TSS	160.2	5	mg/L	3	False		Q<0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Alkalinity	310.1	227	mg/L	2.5	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Alkalinity	310.1	228	mg/L	2.5	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Alkalinity	310.1	230	mg/L	2.5	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Alkalinity	310.1	226	mg/L	2.5	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Aluminum	200.8	0.43	mg/L	0.01	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Aluminum	200.8	0.63	mg/L	0.05	False	A F S	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Aluminum	200.8	0.38	mg/L	0.01	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Aluminum	200.7	0.7	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Aluminum	200.8	0.03	mg/L	0.01	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Aluminum	200.8	0.55	mg/L	0.02	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Aluminum	200.7	3.3	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Aluminum	200.8	1.1	mg/L	0.05	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Aluminum	200.7	3.7	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Aluminum	200.8	3.7	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Aluminum	200.7	2.6	mg/L	0.1	False	C	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Aluminum	200.7	2.3	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Ammonia	350.1	0.1	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Ammonia	350.1	0.135	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Ammonia	350.1	0.1	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Antimony	200.8	0.001	mg/L	0.001	True	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Antimony	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.

Qualifier Codes:
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Antimony	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Arsenic	200.8	0.001	mg/L	0.001	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Arsenic	200.8	0.001	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Arsenic	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Arsenic	200.9	0.005	mg/L	0.005	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Arsenic	200.8	0.002	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Arsenic	200.9	0.0115	mg/L	0.005	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Barium	200.8	0.1	mg/L	0.1	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Barium	200.8	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Barium	200.8	0.1	mg/L	0.1	True		Q~0.5 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Barium	200.8	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Barium	200.8	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Barium	200.8	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Barium	200.8	0.1	mg/L	0.1	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Barium	200.8	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Barium	200.8	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Barium	200.8	0.1	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Barium	200.8	0.1	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Bicarbonate	310.1	277	mg/L	3	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Bicarbonate	310.1	278	mg/L	3	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Bicarbonate	310.1	281	mg/L	3	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Bicarbonate	310.1	276	mg/L	3	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Boron	200.7	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Boron	200.7	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Boron	200.7	0.1	mg/L	0.1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Boron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Boron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Boron	200.7	0.1	mg/L	0.1	True	C H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Boron	200.7	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Boron	200.7	0.1	mg/L	0.1	True	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Boron	200.7	0.1	mg/L	0.1	True	C	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Boron	200.7	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Cadmium	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	Calcium	200.7	55.3	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	Calcium	200.7	39.5	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Calcium	200.7	50	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Calcium	200.7	46	mg/L	1	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Calcium	200.7	54	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Calcium	200.7	57	mg/L	1	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Calcium	200.7	51	mg/L	1	False	H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Calcium	200.7	48	mg/L	1	False	H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Calcium	200.7	48	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Calcium	200.7	48	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Calcium	200.7	46.6	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Calcium	200.7	46.7	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Calcium	200.7	51.6	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Calcium	200.7	51.8	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Calcium	200.7	43	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Calcium	200.7	42	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Calcium	200.7	46	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Calcium	200.7	44	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	Calcium	200.7	34.6	mg/L	1	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Calcium	200.7	42	mg/L	1	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	Calcium	200.7	43	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	Calcium	200.7	43.8	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Calcium	200.7	41	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Calcium	200.7	42	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Calcium	200.7	48	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Calcium	200.7	45	mg/L	1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	Calcium	200.7	29.3	mg/L	1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Calcium	200.7	45	mg/L	1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Calcium	200.7	44	mg/L	1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	Calcium	200.7	41.7	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	Calcium	200.7	36.9	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Calcium	200.7	46	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Calcium	200.7	48	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Carbonate	310.1	0	mg/L	0	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Carbonate	310.1	0	mg/L	0	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Carbonate	310.1	0	mg/L	0	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Carbonate	310.1	0	mg/L	0	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Chloride	300	11.2	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Chloride	300	11.3	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Chloride	300	11.6	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Chloride	300	11.4	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Chromium	200.8	0.005	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Chromium	200.8	0.006	mg/L	0.001	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Chromium	200.8	0.005	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Chromium	200.8	0.003	mg/L	0.001	False		Q~0.5 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Chromium	200.8	0.005	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Chromium	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Chromium	200.8	0.004	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Chromium	200.8	0.004	mg/L	0.001	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Chromium	200.8	0.006	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Chromium	200.8	0.006	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Chromium	200.8	0.007	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Chromium	200.8	0.005	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Cobalt	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Cobalt	200.8	0.001	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Copper	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Copper	200.8	0.01	mg/L	0.01	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Copper	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Copper	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Copper	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Copper	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Copper	200.8	0.01	mg/L	0.01	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Copper	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Copper	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Copper	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Copper	200.8	0.01	mg/L	0.01	True		
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Cyanide	335.4	0.005	mg/L	0.005	True		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	WAD	Cyanide	335.4	0.005	mg/L	0.005	True		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	4/7/2004 9:50	Bacteria	Fecals	9222-D	5	/100ml		False		
Rio Pescado @ Highway 53 bridge	5/5/2004 10:05	Bacteria	Fecals	9222-D	1	/100ml		True		
Rio Pescado @ Highway 53 bridge	8/12/2004 7:50	Bacteria	Fecals	9222-D	720	/100ml		False		
Rio Pescado @ Highway 53 bridge	11/4/2004 8:00	Bacteria	Fecals	9222-D	7	/100ml		False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	Fluoride	340.2	0.328	mg/L	0	False		Dup's called Nutria at Hwy 53

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	Fluoride	340.2	0.33	mg/L	0	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Fluoride	340.2	0.306	mg/L	0	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Fluoride	340.2	0.31	mg/L	0	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Fluoride	340.2	0.331	mg/L	0	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Fluoride	340.2	0.327	mg/L	0	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	Fluoride	340.2	0.336	mg/L	0	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	Fluoride	340.2	0.346	mg/L	0	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	Fluoride	340.2	0.349	mg/L	0	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	Fluoride	340.2	0.34	mg/L	0	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	Fluoride	340.2	0.32	mg/L	0	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	Fluoride	340.2	0.17	mg/L	0	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	Hardness	200.7	206	mg/L CaCO3	0	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	Hardness	200.7	161	mg/L CaCO3	6.6	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Hardness	200.7	183	mg/L CaCO3	6.6	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Hardness	200.7	183	mg/L CaCO3	6.6	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Hardness	200.7	193	mg/L CaCO3	6.6	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Hardness	200.7	195	mg/L CaCO3	6.6	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	Hardness	200.7	105	mg/L CaCO3	6.6	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	Hardness	200.7	157	mg/L CaCO3	6.6	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	Hardness	200.7	163	mg/L CaCO3	6.6	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	Hardness	200.7	132	mg/L CaCO3	6.6	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	Hardness	200.7	165	mg/L CaCO3	6.6	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	Hardness	200.7	151	mg/L CaCO3	6.6	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Iron	200.7	0.7	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Iron	200.7	0.8	mg/L	0.1	False	D H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Iron	236.1	0.05	mg/L	0.05	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Iron	200.7	0.7	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Iron	200.7	0.6	mg/L	0.1	False		Q~0.5 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Iron	200.7	0.9	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Iron	200.7	1.7	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Iron	200.7	1.3	mg/L	0.1	False	A H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Iron	200.7	1.7	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Iron	200.7	1.6	mg/L	0.1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Iron	200.7	2.4	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Iron	200.7	1.7	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Lead	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Lead	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Lead	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Lead	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Lead	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Lead	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Lead	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Lead	200.8	0.001	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Lead	200.8	0.001	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Lead	200.8	0.003	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Lead	200.8	0.001	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Magnesium	200.7	15	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Magnesium	200.7	15	mg/L	1	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	Magnesium	200.7	16.6	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	Magnesium	200.7	15.2	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Magnesium	200.7	17	mg/L	1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Magnesium	200.7	18	mg/L	1	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Magnesium	200.7	16.2	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Magnesium	200.7	16	mg/L	1	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Magnesium	200.7	16	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Magnesium	200.7	16	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Magnesium	200.7	15	mg/L	1	False	H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Magnesium	200.7	16	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Magnesium	200.7	15.8	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Magnesium	200.7	14	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Magnesium	200.7	15	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Magnesium	200.7	15	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Magnesium	200.7	15	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Magnesium	200.7	15.7	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	Magnesium	200.7	14.3	mg/L	1	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Magnesium	200.7	14	mg/L	1	False	A H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	Magnesium	200.7	12.1	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	Magnesium	200.7	13	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Magnesium	200.7	14	mg/L	1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Magnesium	200.7	14	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Magnesium	200.7	14	mg/L	1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Magnesium	200.7	13	mg/L	1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	Magnesium	200.7	14.2	mg/L	1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Magnesium	200.7	15	mg/L	1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Magnesium	200.7	15	mg/L	1	False	A D	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	Magnesium	200.7	14.7	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	Magnesium	200.7	14.3	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Magnesium	200.7	15	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Magnesium	200.7	16	mg/L	1	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Manganese	200.8	0.041	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Manganese	200.8	0.038	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Manganese	200.8	0.049	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Manganese	200.8	0.05	mg/L	0.001	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Manganese	200.8	0.034	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Manganese	200.8	0.036	mg/L	0.001	False	H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Manganese	200.8	0.04	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Manganese	200.8	0.041	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Manganese	200.8	0.036	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Manganese	200.8	0.031	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Manganese	200.8	0.04	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Manganese	200.8	0.045	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Manganese	200.8	0.032	mg/L	0.001	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Manganese	200.8	0.028	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Manganese	200.8	0.027	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Manganese	200.8	0.038	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Manganese	200.8	0.038	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Manganese	200.8	0.033	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Manganese	200.8	0.046	mg/L	0.002	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Manganese	200.8	0.019	mg/L	0.001	False	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Manganese	200.8	0.028	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Molybdenum	200.8	0.002	mg/L	0.001	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Nickel	200.8	0.01	mg/L	0.01	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs

Qualifier Codes:
A-see comments section
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D-spike recovery < 80% or >120%
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Nickel	200.8	0.01	mg/L	0.01	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Nickel	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Nitrate+ Nitrite (N)	353.2	0.3	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Nitrate+ Nitrite (N)	353.2	0.3	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Nitrate+ Nitrite (N)	353.2	0.17	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Nitrate+ Nitrite (N)	353.2	0.17	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Nitrate+ Nitrite (N)	353.2	0.37	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Nitrate+ Nitrite (N)	353.2	0.37	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Nitrate+ Nitrite (N)	353.2	0.18	mg/L	0.1	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Nitrate+ Nitrite (N)	353.2	0.25	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Nitrate+ Nitrite (N)	353.2	0.24	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Nitrate+ NItrite (N)	353.2	0.3	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Nitrate+ Nitrite (N)	353.2	0.48	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Nitrate+ Nitrite (N)	353.2	0.48	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Phosphorous	365.4	0.03	mg/L	0.03	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Phosphorous	365.4	0.0305	mg/L	0.03	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Phosphorous	365.4	0.0557	mg/L	0.03	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Phosphorous	365.4	0.0861	mg/L	0.03	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Phosphorous	365.1	0.055	mg/L	0.003	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Phosphorous,	365.4	0.0427	mg/L	0.03	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Phosphorous,	365.4	0.03	mg/L	0.03	True		Q~0.5 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Phosphorous,	365.4	0.0676	mg/L	0.03	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Phosphorous,	365.4	0.0573	mg/L	0.03	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Phosphorous,	365.4	0.0742	mg/L	0.03	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Phosphorous,	365.4	0.132	mg/L	0.03	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Phosphorous,	365.4	0.044	mg/L	0.03	False		
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Potassium	200.7	5	mg/L	1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Potassium	200.7	5	mg/L	1	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Potassium	200.7	5	mg/L	1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Potassium	200.7	5	mg/L	1	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	D F	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Selenium	270.2	0.005	mg/L	0.005	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	D F	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	D F	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	D F	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Silicon	200.7	14	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Silicon	200.7	12	mg/L	0.1	False	C H	Dup's called Nutria at Hwy 53

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Silicon	200.7	15	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Silicon	200.7	17	mg/L	0.1	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Silicon	200.7	15	mg/L	0.1	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Silicon	200.7	15	mg/L	0.1	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Silicon	200.7	17	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Silicon	200.7	16	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Silicon	200.7	14	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Silicon	200.7	14	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Silicon	200.7	17	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Silicon	200.7	22	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Silicon	200.7	20	mg/L	0.1	False	C H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Silicon	200.7	14	mg/L	0.1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Silicon	200.7	14	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Silicon	200.7	24	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Silicon	200.7	16	mg/L	0.1	False	A	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Silicon	200.7	15	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Silicon	200.7	19	mg/L	0.1	False	A D	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Silicon	200.7	14	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Silicon	200.7	18	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Silver	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Silver	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Silver	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Silver	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Silver	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Silver	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Silver	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Silver	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Silver	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Silver	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Silver	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Sodium	200.7	45.2	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Sodium	200.7	45.5	mg/L	1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Sodium	200.7	46	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Sodium	200.7	48.3	mg/L	1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Strontium	200.7	0.5	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Strontium	200.7	0.5	mg/L	0.1	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Strontium	200.7	0.5	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Strontium	200.7	0.5	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Strontium	200.7	0.5	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Strontium	200.7	0.4	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Strontium	200.7	0.4	mg/L	0.1	False	A C H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False	C H	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Strontium	200.7	0.5	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Strontium	200.7	0.4	mg/L	0.1	False	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Strontium	200.7	0.4	mg/L	0.1	False	A D	Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Strontium	200.7	0.5	mg/L	0.1	False		

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Strontium	200.7	0.5	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	Sulfate	300	28.1	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	Sulfate	300	28.1	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	Sulfate	300	29.5	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	Sulfate	300	28.8	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Thallium	200.8	0.001	mg/L	0.001	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Thallium	200.8	0.001	mg/L	0.001	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Tin	200.7	0.1	mg/L	0.1	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Tin	200.7	0.1	mg/L	0.1	True	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Tin	200.7	0.1	mg/L	0.1	True	A	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Tin	200.7	0.1	mg/L	0.1	True		Q~0.5 cfs

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Tin	200.7	0.2	mg/L	0.2	True	A	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Tin	200.7	0.2	mg/L	0.2	True	A	Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Tin	200.7	0.2	mg/L	0.2	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Tin	200.7	0.6	mg/L	0.1	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Tin	200.7	0.1	mg/L	0.1	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Tin	200.7	0.1	mg/L	0.1	True	C	No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Tin	200.7	0.1	mg/L	0.1	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Tin	200.7	0.1	mg/L	0.1	True		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	TDS	160.1	364	mg/L	10	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	TDS	160.1	364	mg/L	10	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	TDS	160.1	344	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	TDS	160.1	340	mg/L	10	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	TDS	160.1	354	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	TDS	160.1	336	mg/L	10	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	TDS	160.1	312	mg/L	10	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	TDS	160.1	336	mg/L	10	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	TDS	160.1	326	mg/L	10	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	TDS	160.1	312	mg/L	10	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	TDS	160.1	332	mg/L	10	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	TDS	160.1	330	mg/L	10	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	TKN	351.2	0.931	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	TKN	351.2	0.335	mg/L	0.1	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	TKN	351.2	0.246	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	TKN	351.2	0.302	mg/L	0.1	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	TKN	351.2	0.517	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	TKN	351.2	0.59	mg/L	0.1	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	TKN	351.2	0.45	mg/L	0.1	False		No flow; site inundated with tailwaters from irrigations diversion dam.

Qualifier Codes:
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B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	TKN	351.2	0.475	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	TKN	351.2	0.455	mg/L	0.1	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	TKN	351.2	0.81	mg/L	0.1	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	TKN	351.2	0.35	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	TKN	351.2	0.42	mg/L	0.1	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions	TSS	160.2	14	mg/L	3	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Ions, dup	TSS	160.2	15	mg/L	3	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions	TSS	160.2	7	mg/L	3	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Ions, dup	TSS	160.2	8	mg/L	3	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions	TSS	160.2	38	mg/L	3	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Ions, dup	TSS	160.2	40	mg/L	3	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Ions	TSS	160.2	21	mg/L	3	False		No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions	TSS	160.2	29	mg/L	3	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Ions, dup	TSS	160.2	29	mg/L	3	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Ions	TSS	160.2	118	mg/L	3	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions	TSS	160.2	20	mg/L	3	False		
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Ions, dup	TSS	160.2	24	mg/L	3	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Uranium	200.8	0.003	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Uranium	200.8	0.003	mg/L	0.001	False	H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Uranium	200.8	0.003	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Uranium	200.8	0.003	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Uranium	200.8	0.003	mg/L	0.001	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Uranium	200.8	0.003	mg/L	0.001	False		No flow. Water backed up from irrigation dam.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Uranium	200.8	0.003	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Uranium	200.8	0.003	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Uranium	200.8	0.003	mg/L	0.001	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Vanadium	200.8	0.004	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Vanadium	200.8	0.003	mg/L	0.001	False		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Vanadium	200.8	0.003	mg/L	0.001	False	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Vanadium	200.8	0.003	mg/L	0.001	False	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Vanadium	200.8	0.005	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Vanadium	200.8	0.005	mg/L	0.001	False		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Vanadium	200.8	0.006	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Vanadium	200.8	0.006	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Vanadium	200.8	0.006	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Vanadium	200.8	0.007	mg/L	0.001	False		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Vanadium	200.8	0.005	mg/L	0.001	False	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Vanadium	200.8	0.005	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Vanadium	200.8	0.005	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Vanadium	200.8	0.008	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Vanadium	200.8	0.008	mg/L	0.001	False		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Vanadium	200.8	0.005	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Vanadium	200.8	0.01	mg/L	0.001	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Vanadium	200.8	0.004	mg/L	0.001	False	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Vanadium	200.8	0.006	mg/L	0.002	False		
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	4/6/2004 8:30	Total	Zinc	200.8	0.01	mg/L	0.01	True	C H	Dup's called Nutria at Hwy 53
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs
Rio Pescado @ Highway 53 bridge	5/4/2004 9:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Q~0.5 cfs

Qualifier Codes:
A-see comments section
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D-spike recovery < 80% or >120%
F-matrix interference
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R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Zinc	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	6/9/2004 8:15	Total	Zinc	200.8	0.01	mg/L	0.01	True		Irrigation diversion closed for first time - pool extended over site. Anoxic sediment. Q<1cfs.
Rio Pescado @ Highway 53 bridge	7/14/2004 8:38	Total	Zinc	200.8	0.01	mg/L	0.01	True	H	No flow; site inundated with tailwaters from irrigations diversion dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	8/11/2004 8:00	Total	Zinc	200.8	0.01	mg/L	0.01	True		No flow. Water backed up from irrigation dam.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Total	Zinc	200.8	0.02	mg/L	0.01	False		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	9/14/2004 8:50	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Irrigation dam open. Station no longer covered in tail waters and Q~0.2 cfs.
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Rio Pescado @ Highway 53 bridge	11/3/2004 10:30	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Alkalinity	310.1	413	mg/L	2.5	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Aluminum	200.8	0.16	mg/L	0.01	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Antimony	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Arsenic	200.8	0.003	mg/L	0.001	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Arsenic	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Barium	200.8	0.3	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Barium	200.8	0.1	mg/L	0.1	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Beryllium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Bicarbonate	310.1	504	mg/L	3	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.42	ug/L	0.4	False	B	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Boron	200.7	0.2	mg/L	0.1	False	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Boron	200.7	0.2	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Cadmium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Calcium	200.7	60.5	mg/L	1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Calcium	200.7	83	mg/L	1	False	H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Calcium	200.7	85	mg/L	1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Carbonate	310.1	0	mg/L	0	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Chloride	300	15.8	mg/L	10	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Chromium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Cobalt	200.8	0.002	mg/L	0.001	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Cobalt	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Copper	200.8	0.02	mg/L	0.01	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Fluoride	340.2	0.261	mg/L	0	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Hardness	200.7	196	mg/L CaCO3	6.6	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Iron	200.7	0.4	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Lead	200.8	0.001	mg/L	0.001	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Magnesium	200.7	10.9	mg/L	1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Magnesium	200.7	11	mg/L	1	False	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Magnesium	200.7	11	mg/L	1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Manganese	200.7	0.75	mg/L	0.05	False	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Manganese	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Nickel	200.8	0.01	mg/L	0.01	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Phosphorous,	365.4	0.118	mg/L	0.03	False		Water fairly stagnant; no visible flow.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
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F-matrix interference
H-analyzed in duplicate
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Potassium	200.7	8.41	mg/L	1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Silicon	200.7	8.9	mg/L	0.1	False	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Silicon	200.7	9.6	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Silver	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Sodium	200.7	95.1	mg/L	10	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Strontium	200.7	1.1	mg/L	0.1	False	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Strontium	200.7	1.2	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	Sulfate	300	10	mg/L	10	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Thallium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Tin	200.7	0.1	mg/L	0.1	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	TDS	160.1	520	mg/L	10	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	TKN	351.2	0.481	mg/L	0.1	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Ions (TDS/TSS)	TSS	160.2	11	mg/L	3	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Uranium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Uranium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Vanadium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Vanadium	200.8	0.001	mg/L	0.001	True		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Total	Zinc	200.8	0.01	mg/L	0.01	False		Water fairly stagnant; no visible flow.
Unnamed arroyo blw Black Rock dip vat	5/4/2004 16:00	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True		Water fairly stagnant; no visible flow.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Alkalinity	310.1	125	mg/L	2.5	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Bicarbonate	310.1	143	mg/L	3	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	Calcium	200.7	42.4	mg/L	1	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Calcium	200.7	23.7	mg/L	1	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	Calcium	200.7	17.5	mg/L	1	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	Calcium	200.7	63.4	mg/L	1	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	Calcium	200.7	47.5	mg/L	1	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	Calcium	200.7	53.8	mg/L	1	False		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Carbonate	310.1	8.4	mg/L	0	False		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Chloride	300	10	mg/L	10	True		
Upper Nutria Diversion Reservoir	8/12/2004 8:15	Bacteria	Fecals	9222-D	3	/100ml		False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	Fluoride	340.2	0.208	mg/L	0	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Fluoride	340.2	0.304	mg/L	0	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	Fluoride	340.2	0.341	mg/L	0.1	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	Fluoride	340.2	0.272	mg/L	0	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	Fluoride	340.2	0.27	mg/L	0	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	Fluoride	340.2	0.29	mg/L	0	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	Hardness	200.7	148	mg/L CaCO3	0	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Hardness	200.7	136	mg/L CaCO3	6.6	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	Hardness	200.7	137	mg/L CaCO3	6.6	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	Hardness	200.7	227	mg/L CaCO3	6.6	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	Hardness	200.7	206	mg/L CaCO3	6.6	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	Hardness	200.7	235	mg/L CaCO3	6.6	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	Magnesium	200.7	10.2	mg/L	1	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Magnesium	200.7	18.7	mg/L	1	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	Magnesium	200.7	22.7	mg/L	1	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	Magnesium	200.7	16.7	mg/L	1	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	Magnesium	200.7	21.1	mg/L	1	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	Magnesium	200.7	24.5	mg/L	1	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Samples taken from shore @ boat ramp.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Full enough to spill recently.
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Total	Nitrate+ NItrite (N)	353.2	0.1	mg/L	0.1	True		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Total	Phosphorous,	365.4	0.152	mg/L	0.03	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Total	Phosphorous,	365.4	0.0451	mg/L	0.03	False		Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Total	Phosphorous,	365.4	0.0408	mg/L	0.03	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Total	Phosphorous,	365.4	0.0426	mg/L	0.03	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Total	Phosphorous,	365.4	0.135	mg/L	0.03	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Total	Phosphorous,	365.4	0.107	mg/L	0.03	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Total	Phosphorous,	365.1	0.048	mg/L	0.003	False		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Potassium	200.7	5	mg/L	1	True		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Sodium	200.7	13.8	mg/L	1	False		
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	Sulfate	300	22.6	mg/L	10	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	TDS	160.1	256	mg/L	10	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Ions	TDS	160.1	232	mg/L	10	False		Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	TDS	160.1	206	mg/L	10	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	TDS	160.1	188	mg/L	10	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	TDS	160.1	342	mg/L	10	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	TDS	160.1	266	mg/L	10	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	TDS	160.1	276	mg/L	10	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Total	TKN	351.2	0.569	mg/L	0.1	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Total	TKN	351.2	0.682	mg/L	0.1	False		Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Total	TKN	351.2	0.1	mg/L	0.1	True		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Total	TKN	351.2	0.874	mg/L	0.1	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Total	TKN	351.2	1.13	mg/L	0.1	False		Decaying algae, probably high organic acid.
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Total	TKN	351.2	0.99	mg/L	0.1	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Total	TKN	351.2	0.67	mg/L	0.1	False		
Upper Nutria Diversion Reservoir	4/6/2004 11:30	Ions	TSS	160.2	11	mg/L	3	False		Samples taken from shore @ boat ramp.
Upper Nutria Diversion Reservoir	5/4/2004 11:00	Ions	TSS	160.2	3	mg/L	3	True		Full enough to spill recently.
Upper Nutria Diversion Reservoir	6/9/2004 10:30	Ions	TSS	160.2	3	mg/L	3	False		
Upper Nutria Diversion Reservoir	7/14/2004 9:46	Ions	TSS	160.2	7	mg/L	3	False		
Upper Nutria Diversion Reservoir	8/11/2004 10:00	Ions	TSS	160.2	4	mg/L	3	False		Decaying algae, probably high organic acid.

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Nutria Diversion Reservoir	9/14/2004 9:30	Ions	TSS	160.2	4	mg/L	3	False		Samples taken near headgate instead of off boatramp as before. Headgate recently closed after nearly complete drawdown during irrigation season.
Upper Nutria Diversion Reservoir	11/3/2004 11:30	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Alkalinity	310.1	194	mg/L	2.5	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Alkalinity	310.1	192	mg/L	2.5	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Aluminum	200.8	0.08	mg/L	0.01	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Arsenic	200.8	0.001	mg/L	0.001	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Arsenic	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Arsenic	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Barium	200.8	0.2	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Bicarbonate	310.1	236	mg/L	3	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Bicarbonate	310.1	234	mg/L	3	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	SVOC	bis(2-Ethylhexyl)adipate	8270	0.17	ug/L	0.21	True	J	
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	SVOC	bis(2-Ethylhexyl)phthalate	8270	0.41	ug/L	0.2	False	B	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Boron	200.7	0.1	mg/L	0.1	True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	Calcium	200.7	46.3	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Calcium	200.7	42	mg/L	1	False	H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Calcium	200.7	46	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Calcium	200.7	41.9	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Calcium	200.7	43	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Calcium	200.7	42	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Calcium	200.7	42.9	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Calcium	200.7	40	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Calcium	200.7	65	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	Calcium	200.7	39.4	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	Calcium	200.7	44.1	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Carbonate	310.1	0	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Carbonate	310.1	0	mg/L	0	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Chloride	300	10	mg/L	10	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Chloride	300	10	mg/L	10	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Chromium	200.8	0.004	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Chromium	200.8	0.007	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Chromium	200.8	0.003	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Chromium	200.8	0.004	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Chromium	200.8	0.004	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Chromium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/7/2004 9:55	Bacteria	Fecals	9222-D	1	/100ml		True		
Upper Pescado Spring @ pipeline discharge	5/5/2004 10:10	Bacteria	Fecals	9222-D	1	/100ml		True		
Upper Pescado Spring @ pipeline discharge	8/12/2004 7:55	Bacteria	Fecals	9222-D	1	/100ml		True		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	Fluoride	340.2	0.274	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Fluoride	340.2	0.272	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Fluoride	340.2	0.278	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	Fluoride	340.2	0.283	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	Fluoride	340.2	0.28	mg/L	0	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	Hardness	200.7	173	mg/L CaCO3	0	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Hardness	200.7	157	mg/L CaCO3	6.6	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Hardness	200.7	161	mg/L CaCO3	6.6	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	Hardness	200.7	139	mg/L CaCO3	6.6	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	Hardness	200.7	161	mg/L CaCO3	6.6	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Iron	200.7	0.1	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	Magnesium	200.7	13.9	mg/L	1	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Magnesium	200.7	12	mg/L	1	False	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Magnesium	200.7	14	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Magnesium	200.7	12.8	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Magnesium	200.7	14	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Magnesium	200.7	12	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Magnesium	200.7	13	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Magnesium	200.7	12	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Magnesium	200.7	18	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	Magnesium	200.7	9.97	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	Magnesium	200.7	12.5	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Manganese	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Manganese	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Manganese	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Manganese	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Manganese	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Manganese	200.7	0.05	mg/L	0.05	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Mercury	245.1	0.0002	mg/L	0.0002	True	C H	
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Molybdenum	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		

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Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Molybdenum	200.8	0.001	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Nitrate+ Nitrite (N)	353.2	0.99	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Nitrate+ Nitrite (N)	353.2	1	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Nitrate+ Nitrite (N)	353.2	1	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Total	Nitrate+ Nitrite (N)	353.2	1	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Total	Nitrate+ NItrite (N)	353.2	1	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Phosphorous,	365.4	0.05	mg/L	0.03	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Phosphorous,	365.4	0.0586	mg/L	0.03	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Phosphorous,	365.4	0.06	mg/L	0.03	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Total	Phosphorous,	365.4	0.0761	mg/L	0.03	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Total	Phosphorous,	365.4	0.0696	mg/L	0.03	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Potassium	200.7	5	mg/L	1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Potassium	200.7	5	mg/L	1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Selenium	270.2	0.005	mg/L	0.005	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Selenium	270.2	0.005	mg/L	0.005	True	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Silicon	200.7	16	mg/L	0.1	False	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Silicon	200.7	4.5	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Sodium	200.7	38.9	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Sodium	200.7	40.2	mg/L	1	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Strontium	200.7	0.4	mg/L	0.1	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	Sulfate	300	25.8	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	Sulfate	300	26.2	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Tin	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Tin	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Tin	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Tin	200.7	0.2	mg/L	0.2	True	A	
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Tin	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	TDS	160.1	326	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	TDS	160.1	314	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	TDS	160.1	310	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	TDS	160.1	308	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	TDS	160.1	284	mg/L	10	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	TKN	351.2	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	TKN	351.2	0.107	mg/L	0.1	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	TKN	351.2	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Total	TKN	351.2	0.281	mg/L	0.1	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

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Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Total	TKN	351.2	0.1	mg/L	0.1	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	8/11/2004 8:50	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	9/14/2004 9:30	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Vanadium	200.8	0.007	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Vanadium	200.8	0.005	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Vanadium	200.8	0.007	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Vanadium	200.8	0.007	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Vanadium	200.8	0.007	mg/L	0.001	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Vanadium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Dissolved	Zinc	200.8	0.01	mg/L	0.01	False		
Upper Pescado Spring @ pipeline discharge	4/6/2004 9:30	Total	Zinc	200.8	0.02	mg/L	0.01	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Dissolved	Zinc	200.8	0.01	mg/L	0.01	False		
Upper Pescado Spring @ pipeline discharge	5/4/2004 9:56	Total	Zinc	200.8	0.01	mg/L	0.01	False		
Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Dissolved	Zinc	200.8	0.01	mg/L	0.01	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

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Upper Pescado Spring @ pipeline discharge	6/9/2004 9:10	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Alkalinity	310.1	192	mg/L	2.5	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Aluminum	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Aluminum	200.8	0.02	mg/L	0.01	False	CH	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Antimony	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Arsenic	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Arsenic	200.8	0.001	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Arsenic	200.8	0.001	mg/L	0.001	False	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Barium	200.8	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Barium	200.8	0.1	mg/L	0.1	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Beryllium	200.8	0.001	mg/L	0.001	True	H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Bicarbonate	310.1	235	mg/L	3	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Boron	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Boron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Cadmium	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	Calcium	200.7	45.8	mg/L	1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Calcium	200.7	43	mg/L	1	False	H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Calcium	200.7	46	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Calcium	200.7	42.3	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Calcium	200.7	41	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Calcium	200.7	38	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Carbonate	310.1	0	mg/L	0	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Chloride	300	10	mg/L	10	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Chromium	200.8	0.004	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Chromium	200.8	0.008	mg/L	0.001	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Chromium	200.8	0.004	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Chromium	200.8	0.003	mg/L	0.001	False	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Cobalt	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Copper	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Copper	200.8	0.01	mg/L	0.01	True	CH	
Upper Pescado Spring in East Pond	4/7/2004 10:05	Bacteria	Fecals	9222-D	1	/100ml		True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	Fluoride	340.2	0.274	mg/L	0	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Fluoride	340.2	0.279	mg/L	0	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	Hardness	200.7	171	mg/L CaCO3	0	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Hardness	200.7	158	mg/L CaCO3	6.6	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Iron	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Iron	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Lead	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Lead	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	Magnesium	200.7	13.7	mg/L	1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Magnesium	200.7	13	mg/L	1	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Magnesium	200.7	15	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Magnesium	200.7	12.6	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Magnesium	200.7	12	mg/L	1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Magnesium	200.7	13	mg/L	1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Manganese	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Manganese	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Manganese	200.8	0.002	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Manganese	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups

Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Molybdenum	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Molybdenum	200.8	0.002	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Molybdenum	200.8	0.002	mg/L	0.001	False	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Nickel	200.8	0.01	mg/L	0.01	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Nitrate+ Nitrite (N)	353.2	0.99	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Nitrate+ Nitrite (N)	353.2	0.97	mg/L	0.1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Phosphorous,	365.4	0.0552	mg/L	0.03	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Phosphorous,	365.4	0.0601	mg/L	0.03	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Potassium	200.7	5	mg/L	1	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Silicon	200.7	16	mg/L	0.1	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Silicon	200.7	16	mg/L	0.1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Silver	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Silver	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Sodium	200.7	40.5	mg/L	1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Strontium	200.7	0.4	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Strontium	200.7	0.3	mg/L	0.1	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	Sulfate	300	26.4	mg/L	10	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Thallium	200.8	0.001	mg/L	0.001	True	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Tin	200.7	0.1	mg/L	0.1	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Tin	200.7	0.2	mg/L	0.2	True	A	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Tin	200.7	0.2	mg/L	0.2	True	A	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	TDS	160.1	326	mg/L	10	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	TDS	160.1	300	mg/L	10	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	TKN	351.2	0.146	mg/L	0.1	False		

Qualifier Codes:
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C-spike recovery btwn 80 and 120%
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F-matrix interference
H-analyzed in duplicate
J-estimated quantity
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	TKN	351.2	0.134	mg/L	0.1	False		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Ions	TSS	160.2	3	mg/L	3	True		
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Uranium	200.8	0.002	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Uranium	200.8	0.002	mg/L	0.001	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Uranium	200.8	0.003	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Uranium	200.8	0.002	mg/L	0.001	False	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Vanadium	200.8	0.007	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Vanadium	200.8	0.005	mg/L	0.001	False		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Vanadium	200.8	0.007	mg/L	0.001	False	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Vanadium	200.8	0.006	mg/L	0.001	False	CH	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	4/6/2004 9:45	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Upper Pescado Spring in East Pond	6/9/2004 8:45	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Upper Pescado Spring in East Pond	6/9/2004 8:45	Total	Zinc	200.8	0.01	mg/L	0.01	True	CH	
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	Calcium	200.7	48.1	mg/L	1	False		
Zuni River @ USGS gage @ BIA road Z-4	4/7/2004 8:45	Bacteria	Fecals	9222-D	8	/100ml		False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	Fluoride	340.2	0.461	mg/L	0	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Radionuclides	Gross alpha (Am-241 ref.)	900	3.2	pCi/L	1.2	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Radionuclides	Gross alpha (U-nat ref.)	900	4.7	pCi/L	1.7	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Radionuclides	Gross beta (Cs-137 ref.)	900	8.1	pCi/L	1	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Radionuclides	Gross beta (Sr/Y-90 ref.)	900	7.7	pCi/L	1	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	Hardness	200.7	215	mg/L CaCO3	6.6	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	Magnesium	200.7	23.1	mg/L	1	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Total	Phosphorous,	365.4	0.0671	mg/L	0.03	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Radionuclides	Radium-226	903.1	0.1	pCi/L	0.02	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	TDS	160.1	532	mg/L	10	False		

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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Total	TKN	351.2	0.658	mg/L	0.1	False		
Zuni River @ USGS gage @ BIA road Z-4	4/6/2004 14:15	Ions	TSS	160.2	14	mg/L	3	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Aluminum	200.7	0.8	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Aluminum	200.8	0.01	mg/L	0.01	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Ammonia	350.1	0.1	mg/L	0.1	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Antimony	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Antimony	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Arsenic	200.8	0.003	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Arsenic	200.8	0.001	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Barium	200.8	0.1	mg/L	0.1	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Barium	200.8	0.1	mg/L	0.1	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Beryllium	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Beryllium	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Boron	200.7	0.2	mg/L	0.1	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Boron	200.7	0.2	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Cadmium	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Cadmium	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	Calcium	200.7	125	mg/L	1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Calcium	200.7	120	mg/L	1	False	H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Calcium	200.7	110	mg/L	1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Chromium	200.8	0.004	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Chromium	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Cobalt	200.8	0.001	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Cobalt	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Copper	200.8	0.01	mg/L	0.01	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Copper	200.8	0.01	mg/L	0.01	True		
Zuni River abv Estace Reservoir	4/7/2004 8:35	Bacteria	Fecals	9222-D	1	/100ml		False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	Fluoride	340.2	0.495	mg/L	0	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	Hardness	200.7	393	mg/L CaCO3	0	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Iron	200.7	0.4	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Iron	236.1	0.05	mg/L	0.05	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Lead	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Lead	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	Magnesium	200.7	19.9	mg/L	1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Magnesium	200.7	18	mg/L	1	False	D H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Magnesium	200.7	18	mg/L	1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Manganese	200.8	0.029	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Manganese	200.8	0.045	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Mercury	245.1	0.0002	mg/L	0.0002	True		

Qualifier Codes:
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Molybdenum	200.8	0.003	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Molybdenum	200.8	0.003	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Nickel	200.8	0.01	mg/L	0.01	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Nickel	200.8	0.01	mg/L	0.01	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Phosphorous,	365.4	0.06	mg/L	0.03	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Selenium	270.2	0.005	mg/L	0.005	True	C	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Selenium	270.2	0.005	mg/L	0.005	True	C	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Silicon	200.7	7.5	mg/L	0.1	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Silicon	200.7	9	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Silver	200.8	0.001	mg/L	0.001	True	D H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Silver	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Strontium	200.7	1	mg/L	0.1	False	H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Strontium	200.7	1	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Thallium	200.8	0.001	mg/L	0.001	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Thallium	200.8	0.001	mg/L	0.001	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Tin	200.7	0.1	mg/L	0.1	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Tin	200.7	0.1	mg/L	0.1	True		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	TDS	160.1	896	mg/L	10	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	TKN	351.2	0.511	mg/L	0.1	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Ions	TSS	160.2	21	mg/L	3	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Uranium	200.8	0.008	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Uranium	200.8	0.008	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Vanadium	200.8	0.004	mg/L	0.001	False	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Vanadium	200.8	0.003	mg/L	0.001	False		
Zuni River abv Estace Reservoir	4/6/2004 14:50	Dissolved	Zinc	200.8	0.01	mg/L	0.01	True	C H	
Zuni River abv Estace Reservoir	4/6/2004 14:50	Total	Zinc	200.8	0.01	mg/L	0.01	True		
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Total	Ammonia	350.1	0.1	mg/L	0.1	True		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	Calcium	200.7	70.1	mg/L	1	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/7/2004 9:00	Bacteria	Fecals	9222-D	11	/100ml		False		
Zuni River blw confl of Rio Pescado & Rio Nutria	5/5/2004 9:50	Bacteria	Fecals	9222-D	1	/100ml		True		
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	Fluoride	340.2	0.434	mg/L	0	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	Hardness	200.7	273	mg/L CaCO3	0	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	Magnesium	200.7	23.7	mg/L	1	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Total	Nitrate+ Nitrite (N)	353.2	0.1	mg/L	0.1	True		No flow from Nutria.

Qualifier Codes:
A-see comments section
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Appendix B2. Lab Results Summary - Zuni Pueblo Sites

Sample site	Sample Date/Time	Fraction	Analyte	Method	Result	Units	SDL	Less than	Qualifier codes	Field notes
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Total	Phosphorous,	365.4	0.0394	mg/L	0.03	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	TDS	160.1	482	mg/L	10	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Total	TKN	351.2	0.536	mg/L	0.1	False		No flow from Nutria.
Zuni River blw confl of Rio Pescado & Rio Nutria	4/6/2004 14:00	Ions	TSS	160.2	17	mg/L	3	False		No flow from Nutria.

Qualifier Codes:
A-see comments section
B-analyte detected in lab blank
C-spike recovery btwn 80 and 120%
D-spike recovery < 80% or >120%
F-matrix interference
H-analyzed in duplicate
J-estimated quantity
R-based on four or more dups