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M E M O R A N D U M

FROM: James Hogan, Program Manager, Monitoring and Assessment Section - SQWB

RE: Application of Jacobi et al. (2006) SCI for bioassessment of New Mexico Waters

DATE: June 10, 2009

Benthic macroinvertebrate sampling is one of the forms of biomonitoring utilized by the state of New Mexico. SWQB has been collecting benthic macroinvertebrate data since 1979. Initial assessments were conducted using a modification of the RBP approach detailed in Barbour et al. (1999). The formal process of developing regional biological criteria began in 2002 with assistance from USEPA Region 6 and Tetra Tech, Inc., Ecological Services Division. The Jacobi et al. (2006) report represents the development of a stream condition index (SCI) for wadeable, perennial streams. To determine impairment, the assessment approach is based on comparing the benthic macroinvertebrate community of a specific stream with a reference condition, or a reference stream, to determine attainment of the applicable Aquatic Life Use. This approach is consistent with USEPA guidance. SWQB does not apply this method to large non-wadeable rivers, lakes and reservoirs, or non-perennial streams at this time. The purpose of this memo is to describe NMED's application of the Jacobi et al. (2006) report for bioassessments. For additional information please see section 3.1.1 of New Mexico's Assessment Protocols (NMED-SWQB, 2009).

The SCI was developed based on reference condition as determined by a number of reference sites. The Jacobi et al. (2006) report describes indices for three classes (bioregions) of streams based on elevation and watershed size. However, SWQB uses only the High Small (elevation and watershed, respectively) Index applied to the Mountain biological region which consists of Ecoregions 21 and 23 (Southern Rockies and AZ/NM Mountains). The available dataset, stream classification system, and reference site selection process did not sufficiently partition the variability and select an adequate number of sites to define the "reference condition" and a departure from this condition for the Low Large and Low Small bioregions. Application of the High Small SCI in the Jacobi report places study reaches in the same condition category for all tested streams in the Mountain ecoregions regardless of elevation or watershed size. Therefore, SWQB presently applies the High Small SCI in the Jacobi et al. (2006) report to determine Aquatic Life Use attainment of all wadeable perennial streams in the Mountain ecoregions and refers to this as the mountain stream condition index (M-SCI). Any study site within approximately 20 kilometers of the boundary of ecoregions 21 and 23 should be compared to the definitions for the various ecoregions to determine the proper ecoregion designation for that site.

The M-SCI is composed of metrics from five categories representing community and species attributes including Taxonomic Composition, Taxonomic Richness, Tolerance, Habit, and Functional Feeding Group. Each metric is first calculated and normalized utilizing the 95th or 5th percentiles associated with each metric. All metrics are then summed and averaged to produce an M-SCI score between 0 and 100. The resulting score is then placed in a condition category of Very Good (100 – 78.35), Good (78.35 – 56.70), Fair (56.70 – 37.20), Poor (37.20 – 18.90), Very Poor (18.90 – 0) based on the distribution of reference site scores. Sites with M-SCI ranking of fair, poor or very poor (see Table 8-1 in the report) are considered to not supporting of the applicable aquatic life use.

Biological regions outside of the Mountains region will be assessed using the RBP approach as detailed in Plafkin et al. (1989) with minor regional modifications as recommended in Barbour et al. (1999) until SCIs can be developed for the Xeric and Plains regions. New Mexico will be using additional data from Ecoregions 22, 24, 25, and 26 collected in 2007 and 2008 to develop these additional regional SCIs. These ecoregions will probably be combined such that New Mexico will consist of three biological regions, Mountains, Plains, and Xeric. This approach is similar to SCI development for Wyoming and Colorado and generally follows the Level II ecoregions (Commission for Environmental Cooperation. 1997, 2006).

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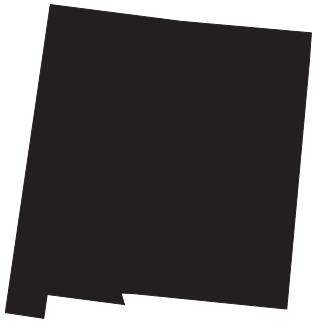
BENTHIC MACROINVERTEBRATE STREAM CONDITION INDICES FOR NEW MEXICO WADEABLE STREAMS



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ACRONYMS AND ABBREVIATIONS

B-IBI	Benthic Index of Biotic Integrity
BPJ	Best Professional Judgment
DE	Discrimination Efficiency
EDAS	Ecological Data Application System
EPA	Environmental Protection Agency (U.S.)
HUC	Hydrologic Unit Code
IBI	Index of Biotic Integrity
ICI	Invertebrate Condition Index
NMED	New Mexico Environment Department
NMDS	Non-metric Multidimensional Scaling, also NMS
NMMSCI	New Mexico Macroinvertebrate Stream Condition Index
NMS	Non-metric Multidimensional Scaling, also NMDS
RBP	Rapid Bioassessment Protocol
SWQB	Surface Water Quality Bureau
SCI	Stream Condition Index
TH	Threshold
TMDL	Total Maximum Daily Load
WQ	Water Quality

SUMMARY

Our purpose was to develop multimetric biological indices for New Mexico wadeable streams. These stream condition indices (SCI) are designed to be used as a primary indicator of ecosystem health and to identify impairment with respect to the reference (or natural) condition. Results could be used to make recommendations for developing biocriteria to achieve more reliable assessments of New Mexico streams.

Information derived from nearly 800 macroinvertebrate samples collected between 1980 and 2001 was categorized based on similarities in composition. For New Mexico, a mountainous state, a three region classification based on elevation and catchment size (low small, low large, and high small) was determined to be the most appropriate for assessment purposes. Based on stream attributes and the best professional judgment of personnel familiar with the locations, a score was developed for each site.

Statewide stream assessment data using a modified Hess sampler from 189 fall samples with watershed size less than 4,000 mi^2 were used for developing indices. Organisms in these collections were identified to the lowest taxonomic level possible. The identifications and counts of organisms collected at each site provided the information used to calculate a suite of metrics for each benthic sample. These metrics (biological attributes) representing community diversity, composition, and tolerance to pollution of the bottom-dwelling macroinvertebrates were derived using the Ecological Data Application System (EDAS, Tetra Tech 2000). Twenty-seven candidate metrics were selected for use in index development.

The ranges of reference site values for the candidate New Mexico stream condition indices were compared with the ranges of values in the impaired sites by means of box-and-whisker plots. Discrimination efficiencies were calculated to show the percent of index values for the stressed sites which were below each index threshold (25^{th} percentile). Data from 128 other Hess samples and 177 samples using a variety of collection methods were used to validate the indices. The final proposed regional indices were those with the highest discrimination efficiencies for both data sets. Index scores above the 25^{th} percentile threshold were rated as "Very Good" or "Good"; below the 25^{th} percentile threshold scores were divided into three categories: "Fair", "Poor", or "Very Poor".

A Microsoft Access Query which can be used to calculate the index for a sample or group of samples by entering the appropriate metric values from EDAS and instructions on developing confidence intervals are also provided.

1. INTRODUCTION

Over the past century, land use activities such as mining, agriculture, urbanization, and ranching have seriously threatened the quality of surface waters by contributing to nonpoint-source pollution. In New Mexico, the investigation of these nonpoint sources of water pollution has become a priority. It is the responsibility of the New Mexico Environment Department (NMED) to maintain and protect the ecosystem health of the state's waters. In keeping with the Clean Water Act and technical guidance from EPA, NMED developed water quality standards for the protection of ecosystem health. In support of the state's water quality standards, which mandate the implementation of biological and chemical criteria and a strict antidegradation policy, the ambient monitoring program has established an assessment "toolbox" that includes physical, chemical, and biological techniques.

The NMED established a Biological Assessment Program initiated by G. Z. Jacobi in 1979. Early programs were site specific or intensive monitoring which concentrated on point-source discharges in high quality mountain streams such as the Rio Hondo, Red River, and Chama River. Ambient monitoring stations were first sampled throughout the state in 1979. The NMED now uses a basin network of monitoring, scheduled on a yearly rotation and prioritization. A core team of biologists, hydrologists, and chemists provides the technical resources to conduct the monitoring. Biological data (e.g., the diversity of organisms) are necessary to assess the health of New Mexico's surface waters and to measure the attainment of biological integrity goals as directed by EPA and characterized by the state of New Mexico. The results presented in this report establish a framework for the assessment and monitoring of New Mexico's streams using these bioassessment procedures.

Bioassessment consists of comparing the biological condition of a stream to a reference condition, which is an aggregate of conditions in unimpaired streams of a region. Reference conditions are "best available" conditions where biological potential is at its highest for the particular region or area. These reference conditions are representative of sustainable ecosystem health. For New Mexico, a

Biocriteria: *under the Clean Water Act, numerical values or narrative statements that define a desired biological condition for a waterbody and are part of the WQ standards.*

Bioassessments: *evaluations of the biological condition of a waterbody that use biological surveys of the resident biota.*

Biosurveys: *the collection, processing, and analysis of representative portions of a resident biotic community or assemblage.*

mountainous state, a regional classification based on elevation and catchment size appears to be the most appropriate framework for assessments. Partitioning the streams and watersheds into Level 3 ecoregions does not appear to improve biological assessment with the current dataset. The information derived from the surveys was aggregated into a macroinvertebrate Stream Condition Index (SCI) for New Mexico (NMMSCI). This SCI is used as a primary indicator of ecosystem health and can identify impairment with respect to the reference (or natural) condition. The index is composed of biological attributes, called metrics, that represent elements of the structure and function of the bottom-dwelling macroinvertebrate assemblage. Metrics are specific measures of diversity, composition, and tolerance to pollution, which provide ecological information. For this study these metrics were derived using the Ecological Data Application System (EDAS, Tetra Tech 2000).

CORE METRIC CATEGORIES

- Taxonomic composition
- Taxonomic richness
- Habit
- Tolerance
- Functional feeding group

See definitions in the metric categories box in Chapter 4.

A data analysis application has been developed to ensure consistency in data management and analysis throughout the state as NMED personnel conduct biological monitoring. Benefits expected from the implementation of the NMMSCI will apply to a broad spectrum of management programs, including:

- characterizing the existence and severity of point and nonpoint source impairment;
- targeting and prioritizing watersheds and ecosystem management areas for remedial or preventive programs;
- evaluating the effectiveness of nonpoint source best management programs;
- screening ecosystems for use attainability; and
- developing a basis for establishing biocriteria that relate to regional water quality goals, an EPA priority.

2. THE APPLICATION OF STREAM BIOASSESSMENT IN NEW MEXICO

The NMED is developing a bioassessment framework for use in assessing the quality of streams as part of the state's Monitoring and Assessment Program. Through the 303(d) and Total Maximum Daily Load (TMDL) framework outlined in the Clean Water Act of 1972 (and revisions of 1977, 1987), those waters considered to be impaired and threatened must be identified and improved to meet their designated uses. The definition of impairment by natural resource management or regulatory agencies is typically based on attainment or non-attainment of numerical water quality standards associated with the designated use of a waterbody. If those standards are not met (or attained) then the waterbody is considered to be impaired. Resident biota in a watershed function as continual natural monitors of environmental quality by responding to the episodic and cumulative effects of pollution and habitat alteration. Conducting ambient biological surveys is one of the primary approaches to biomonitoring. These surveys, in turn, are used to measure the attainment of biological integrity. The assessment of ecosystem health cannot be done without measuring the attainment of biological integrity goals as directed by EPA and addressed by the state of New Mexico.

The Clean Water Act of 1972 (PL-92-500) has as one of its primary goals the maintenance and restoration of biological integrity, which incorporates biological, physical, and chemical quality. This concept refers to assemblages of organisms that would inhabit a particular area if it had not been affected by human activities. This integrity or structure and function of the aquatic community becomes the primary reference condition used to measure and assess waterbodies in a particular region.

> ***Biological integrity*** is commonly defined as "the capability of supporting and maintaining a balanced, integrated, adaptive community of organisms having a species composition, diversity and functional organization comparable to that of the natural habitat of the regions" (Karr and Dudley 1981, Gibson et al. 1996).

Careful measurement of the aquatic ecosystem and its constituent biological communities can determine the condition of biological integrity. Several key attributes are measured to indicate the quality of the aquatic resources. Biological surveys establish the attributes or measures used to summarize several community characteristics, such as taxa richness, number of individuals, sensitive or insensitive species, observed pathologies, and the presence or absence of essential habitat elements.

Multimetric, invertebrate indices of biotic integrity, variously called RBP (Rapid Bioassessment Protocol; Plafkin et al. 1989; Barbour et al. 1999), ICI (Invertebrate Condition Index; Ohio EPA 1988), B-IBI (Benthic IBI; Kerans and Karr 1994) and SCI (Stream Condition Index; Barbour et al. 1996) have been developed for many regions of North America and are generally accepted for biological assessment of aquatic resource quality (e.g., Gibson et al. 1996, Southerland and Stribling 1995, Karr 1991). The framework of bioassessment consists of characterizing reference conditions upon which comparisons can be made and identifying appropriate biological attributes with which to measure the condition. Reference conditions were considered to be the "best available" sites where biological potential is at its highest for the particular region or area. These reference conditions are representative of sustainable ecosystem health in New Mexico.

Biological measurements, called metrics, represent elements of the structure and function of the bottom-dwelling macroinvertebrate assemblage. Metrics change in some predictable way with increased human influence (Barbour et al. 1996). They include specific measures of diversity, composition, functional feeding group, habit, and ecological information on tolerance to pollution. Multimetric indices, such as the IBI, incorporate multiple biological community characteristics and measure the overall response of the community to environmental stressors (Karr et al. 1986, Barbour et al. 1995). Such a measure of the structure and function of the biota (using a regionally-calibrated multimetric index) is an appropriate indicator of ecological quality, reflecting biological responses to changes in physical habitat quality, the integrity of soil and water chemistry, geologic processes, and land use changes (to the degree that they affect the sampled habitat).

The purpose of this study was to develop a multimetric biological index for New Mexico streams. Results of the analysis could be used to make recommendations for improving the state's biological sampling program to achieve more reliable assessments of New Mexico streams.

This study was designed to address the following questions:

- What is the most appropriate site classification for assessment of ecosystem health?
- What are the seasonal differences in biological metrics? (Are different index periods required for monitoring?)
- What are the appropriate metrics for a New Mexico Stream Condition Index (SCI)?
- What are thresholds that indicate the degree of comparability of New Mexico streams to reference condition?

3. ESTABLISHING BIOREGIONS AS A BASIS FOR BIOASSESSMENT

Biological systems naturally vary in composition and diversity of the fauna, depending on the physical characteristics and geomorphology of the waterbodies (in this case, streams) in which they reside. Partitioning this natural variability into relatively homogenous classes or bioregions can aid in establishing reference conditions, or benchmarks, from which to assess biological condition. The purpose of this classification analysis is to evaluate various stream characteristics, such as Level 3 ecoregions and draft version of Level 4, elevation, and catchment size, river basin (HUC 2, 4, 6, 8), physiographic regions, and strata derived from NM Dept. of Game and Fish data, as a means of establishing bioregions for New Mexico streams (Appendix A). The relative geographic clustering of the benthic data from New Mexico streams is depicted in Figure 3-1.

Methods of Analysis

- *Non-metric Multidimensional Scaling (NMDS) Ordination* — Spatial array of sites based on similarity/difference of benthic composition and abundance.
- *Similarity Analysis* — Tests for statistical significance and the strength of the classification.
- *Box-and-Whisker Plots* — Display of ranges of values for the biological data oriented by spatial and temporal groupings.
- *Scatterplots by elevation and catchment size* — Tests for correlation of biological attributes (metrics) with these strata.

Information derived from nearly 800 macroinvertebrate samples collected between 1980 and 2001 were categorized based on similarities in composition. For New Mexico, a mountainous state, a three region classification based on elevation and catchment size (low small, low large, and high small) was determined to be the most appropriate for assessment purposes.

Identification of reference sites (i.e., those having the expected composition and diversity of biota for a region or class of sites) provides the basis for evaluating bioregions. Based on stream attributes and the best professional judgment of personnel familiar with the locations, a score was developed for each site (Appendix B). The attributes included land and water use, point source discharges, 303d listing, habitat scores and level of impact (See Table 3-1 and Table 3-2, and Appendix C). A review by SWQB resulted in changes to bioregion and or reference status to 41 sites (Appendix D).

Based on average flow regimes, emergence phenology and logistics, the NMED SWQB determined a biological index period (Fall) extending from 15 August through 15 November was applicable for calibration of the SCIs used as the basis for bioassessment for each of the three

regional classifications in New Mexico. Statewide stream assessment data using a modified Hess sampler from 189 fall sites with watershed size less than 4,000 mi^2 were used for developing indices. Out of the 189 fall sites, 56 were identified as reference sites and 49 were identified as stressed based on the distributions of the scores for each bioregion (Figure 3-2).

Table 3-1. Development of site scores.

Component	Scoring	Range
Best Professional Judgment	Average of 1 – 4 scores	1 - 4
No Flow by Diversion	True = 1, False = 0	0 – 1
Channelized	True = 1, False = 0	0 – 1
< 10% Agriculture & Impact	Average of Agriculture: True = 1, False = 0 Impact: No = 0, Yes = 1	0 – 1
< 15% Grazing & Impact	Average of Grazing: True = 1, False = 0 Impact : No = 0, Yes = 1	0 – 1
< 5% Urban & Impact	Average of Urban True = 1, False = 0 Impact No = 0, Yes = 1	0 – 1
No Dams & Impact	Average of Dam Presence: True = 1, False = 0 Impact: No = 0, Yes = 1	0 – 1
On 303d List	True = 1, False = 0	0 – 1
No NPDES	True = 0, False = 1	0 – 1
Habitat Score	< .50 = 2, .50 - .75 = 1, > .75 = 0	0 – 2
Total Score (Sum of Above)		0 - 14

Documentation for results are as follows:

- Ordination of the benthic data indicated that a spatial classification by ecoregion was not distinct (Figure 3-3). Neither the data based on genus-level taxonomy nor that based on lowest taxonomic-level supported the use of ecoregions as bioregions.

- Ordination of the benthic data indicated that combined elevation and catchment size provided the most robust classification (Figure 3-4a and b).

- Box-and-whisker plots performed on various benthic attributes for reference sites illustrated only weak distinction among some of the bioregions (Appendix E). However, bioregions are retained as a basis for statewide bioassessments due to acceptable performance.

Table 3-2. Bioregions, characteristics, and site scores.

Location	Elevation	Watershed Size	Reference Score	Stressed Score
Low Elevation Small Catchment Sites	< 7500 ft.	< 150 sq. mi.	≤ 5.5	≥ 7
Low Elevation Large Catchment Sites	< 7500 ft.	≥ 150 sq. mi.	≤ 6.67	≥ 9
High Elevation Small Catchment Sites	≥ 7500 ft.	< 200 sq. mi.	≤ 3	≥ 6

Conclusion for Classification into Bioregions

- Use of ecoregions to serve as bioregions for benthic assessments of cobble habitat in streams of New Mexico is not necessary.
- Classification was best determined by elevation and catchment size.
- The broad collection timeframe of NMED introduces variability into the dataset and use of the Fall period improves the bioassessment.

Recommendations From this Analysis

- The issue of using bioregions to stratify or partition the aquatic community is not totally resolved, but appears to focus on elevation and catchment size characteristics of the streams. Further analysis is warranted to refine bioregions or develop alternative frameworks.
- Additional sampling in the bioregions could reduce the variability in the metrics.

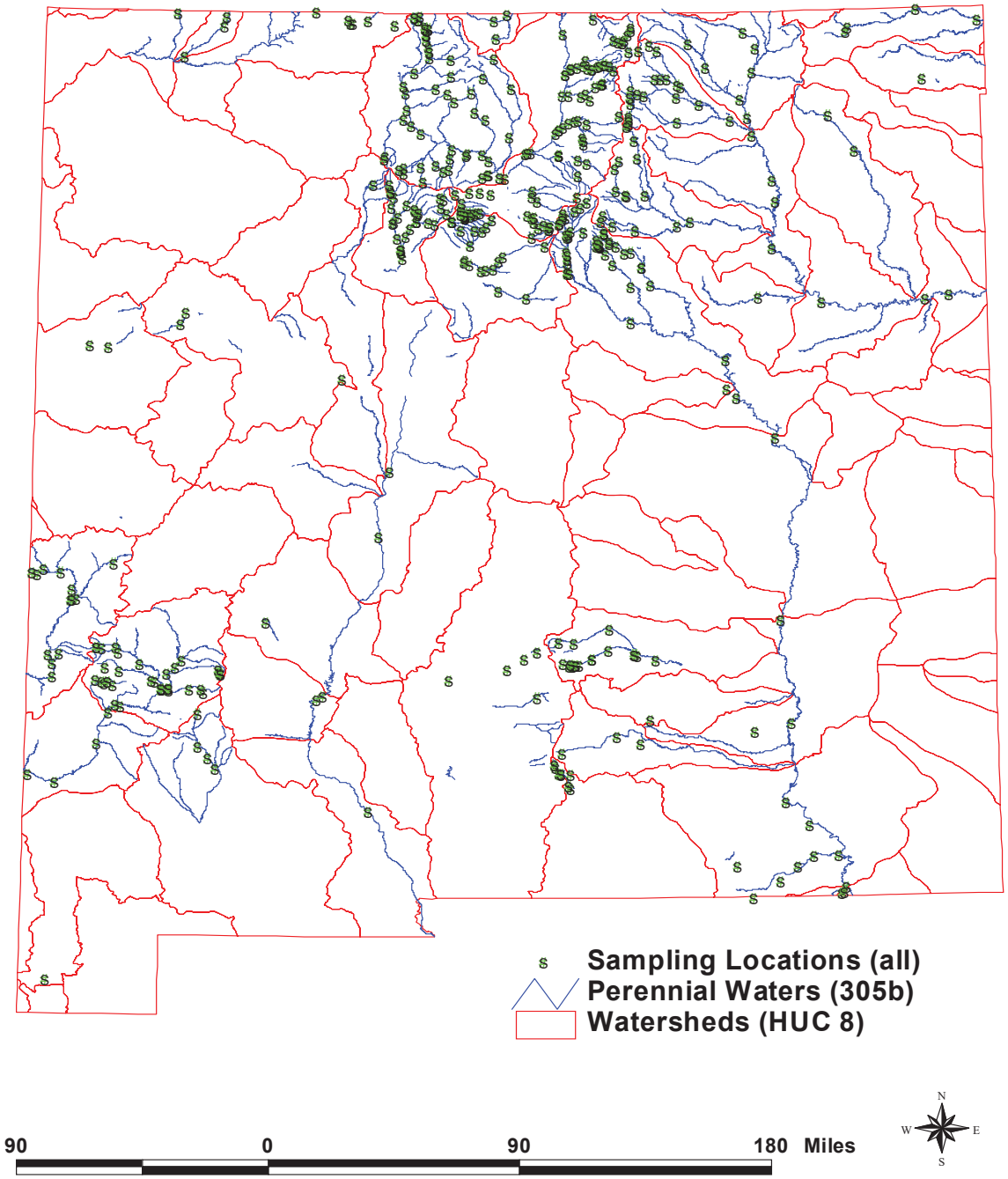

Figure 3-1. Sampling locations within New Mexico (N=444 stations).

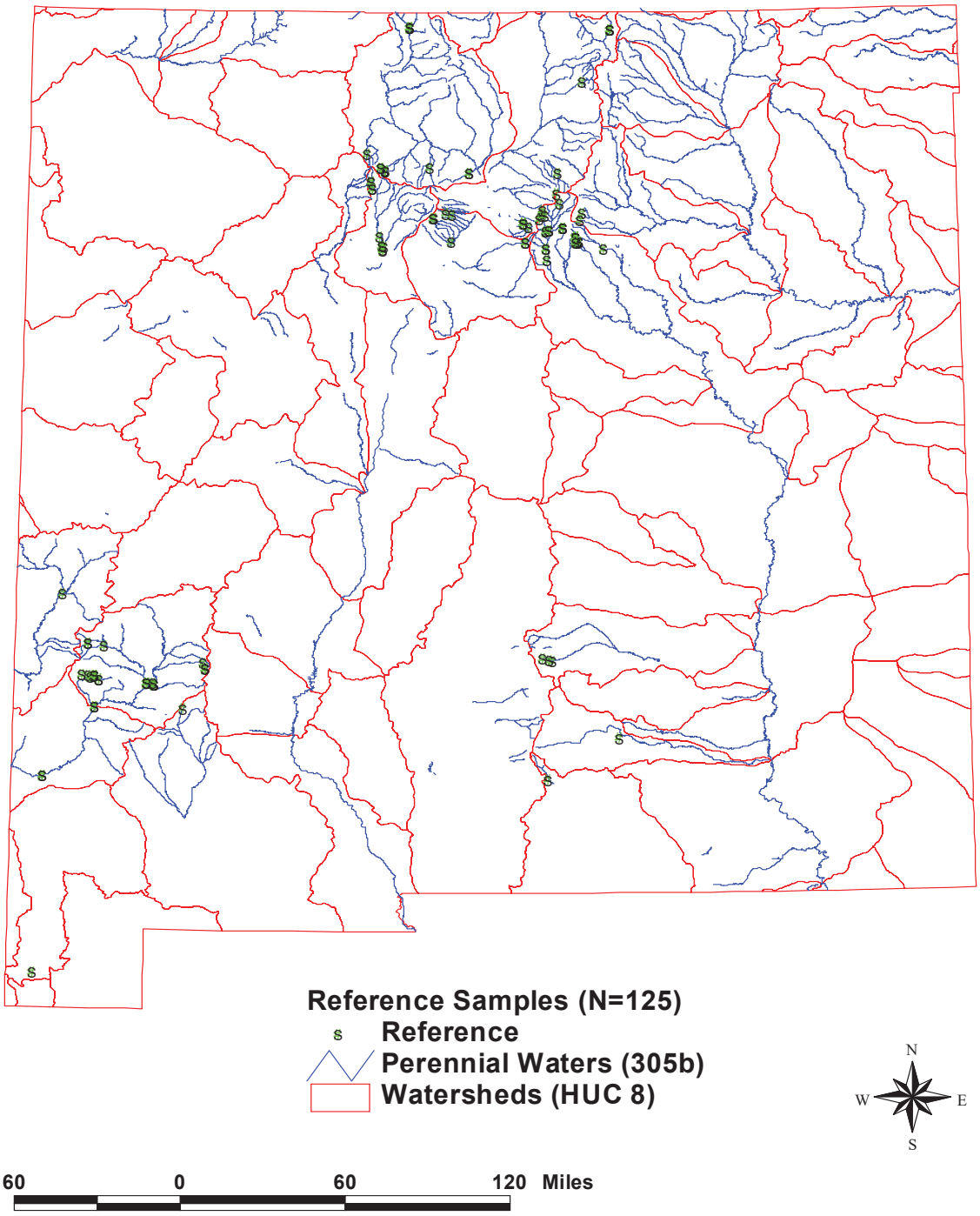

Figure 3-2. Locations of reference samples within New Mexico (N=125 samples).

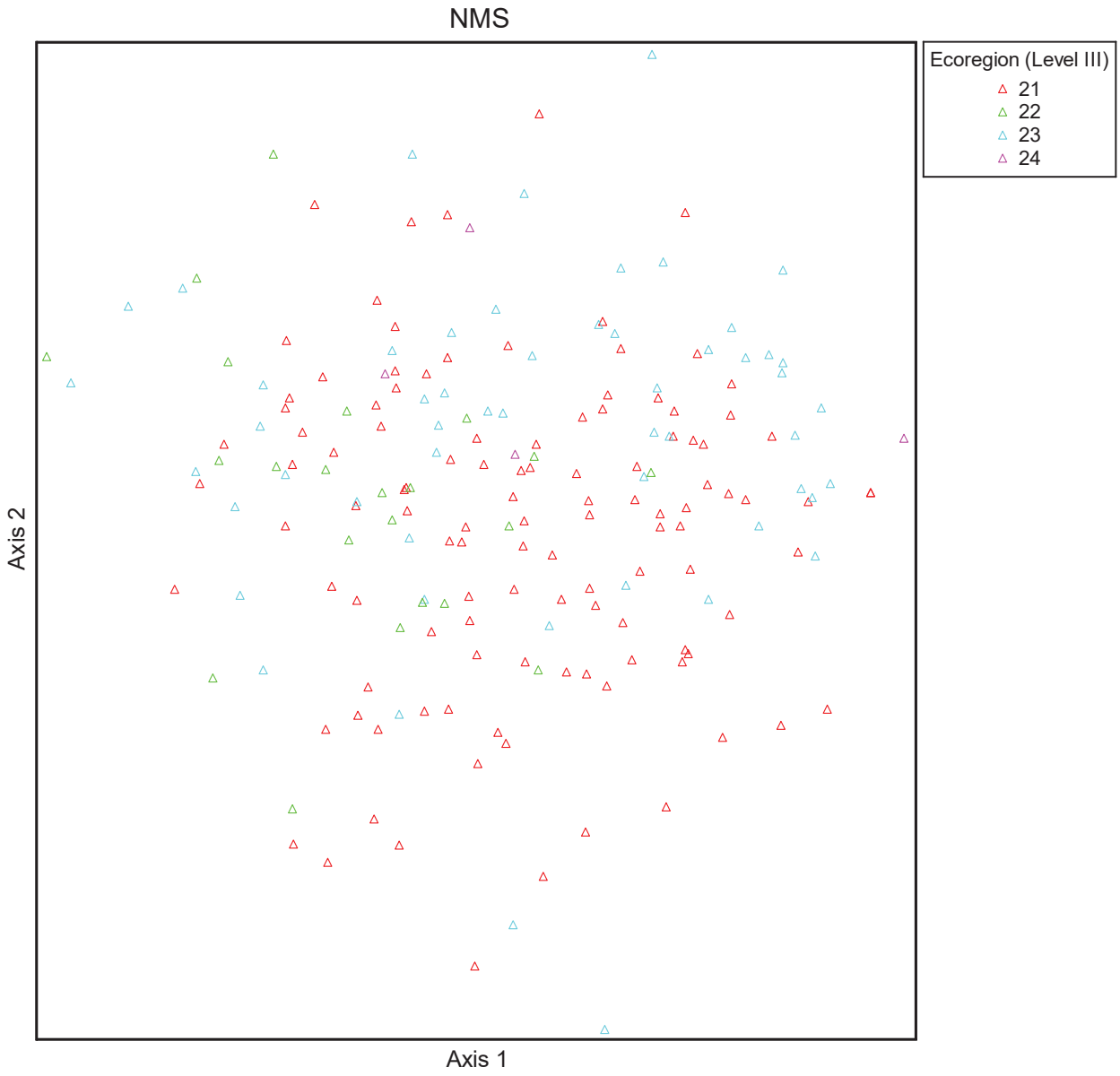

Figure 3-3. NMS plot by ecoregion (Level III).

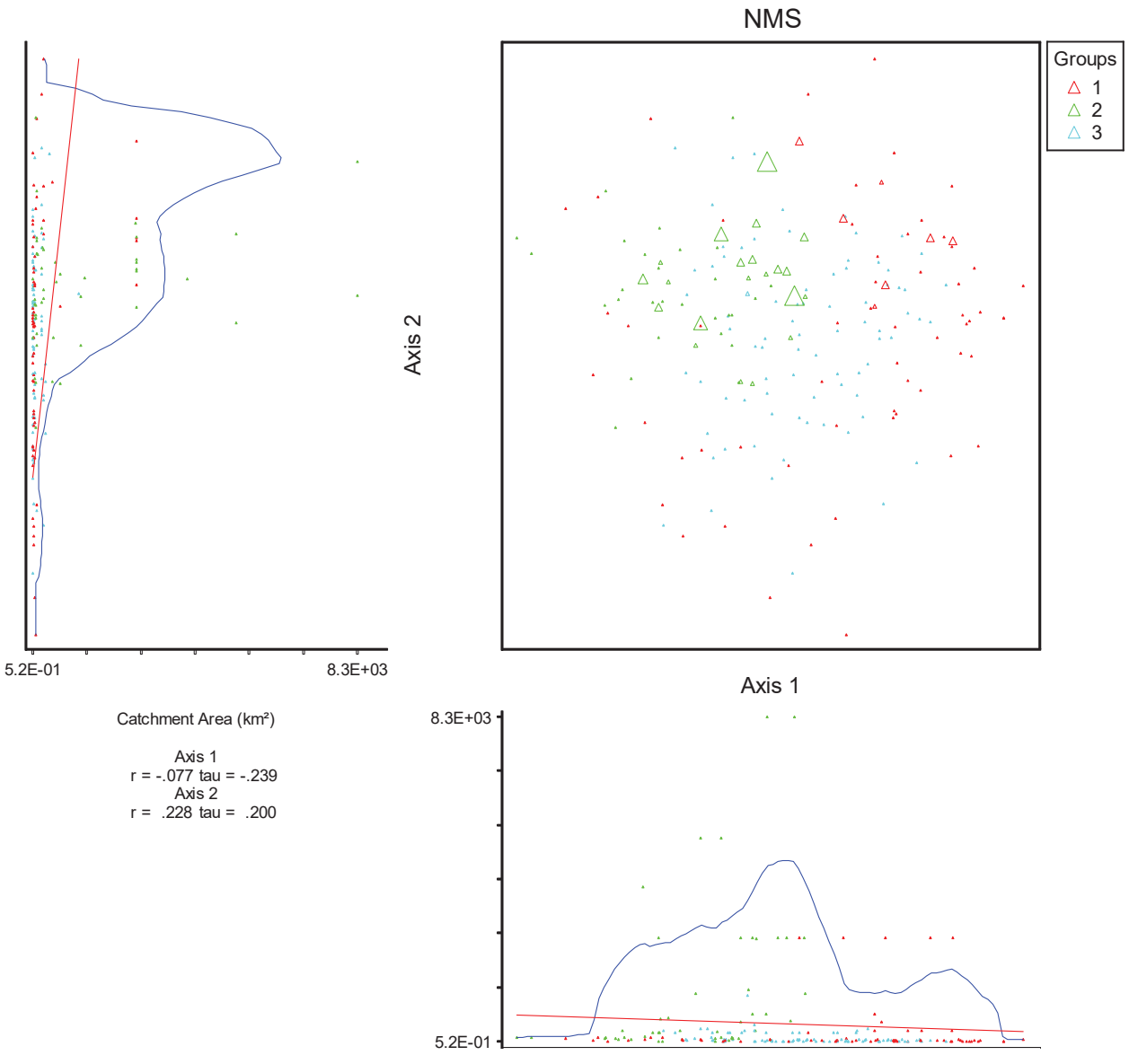

Figure 3-4a. NMS plot catchment area (km^2).

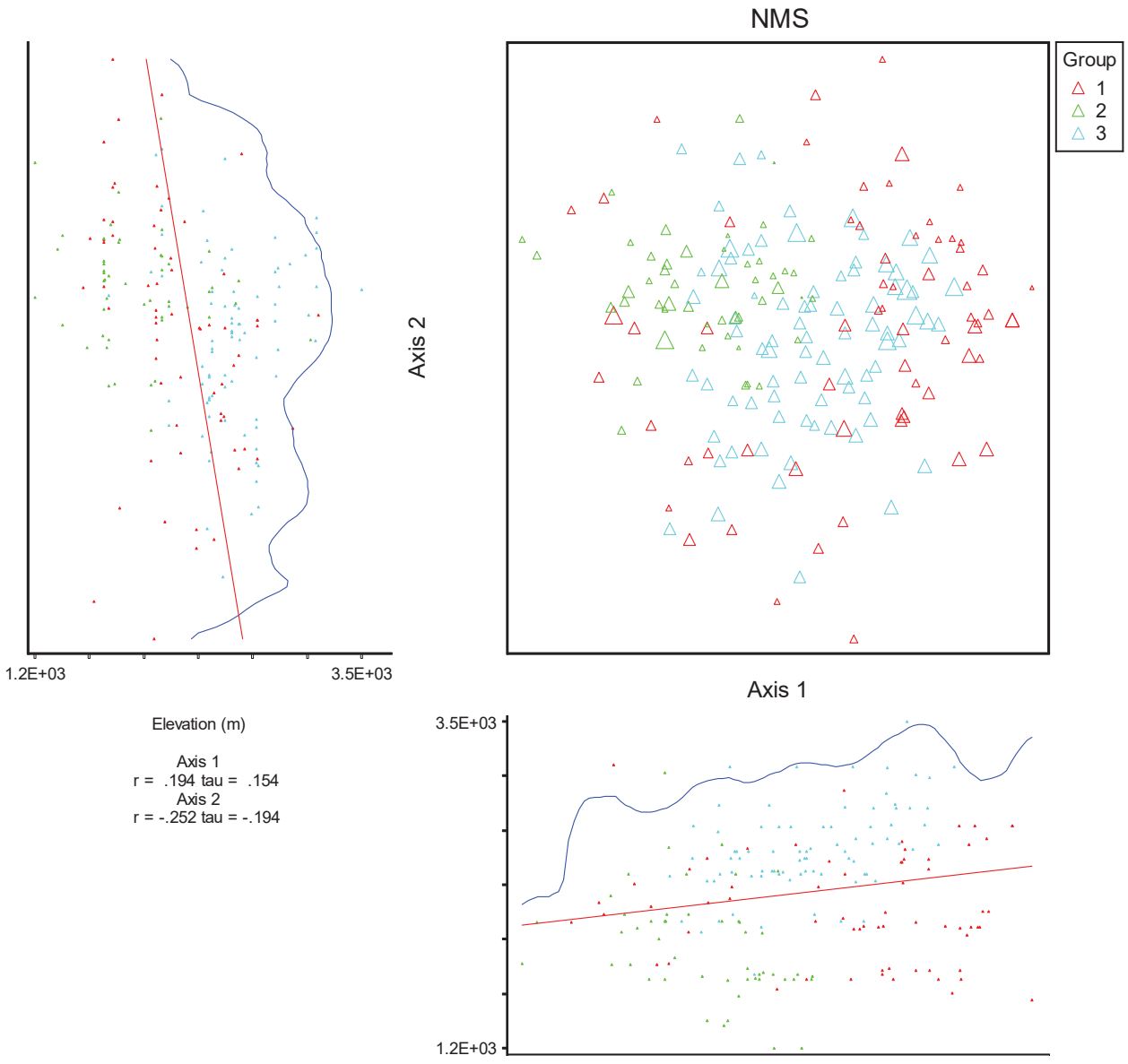

Figure 3-4b. NMS plot by elevation (m).

4. TRANSFORMING BIOLOGICAL ATTRIBUTES INTO METRICS

A *metric* is a characteristic of the biota that changes in some predictable way with increased human influence.

Various attributes of the benthic macroinvertebrate community have been characterized in the form of quantitative measures called metrics. The attributes of the community that are measured by these metrics fall into several categories (see box to left) of benthic community characteristics, and the specific metrics within those categories can indicate different aspects of the community condition. For example, metrics dealing with species richness or diversity, such as Total Taxa, can be used as indicators of community health because an ecologically healthy system is generally expected to support a more diverse community of fauna than can be supported in an ecologically impaired area. Multiple metrics evaluated together can give an overall indication of ecological integrity.

Metric Categories

- *Taxonomic richness* — counts of distinct taxa within selected taxonomic groups.
- *Taxonomic composition* — proportions of individuals belonging to specific selected taxonomic groups.
- *Functional feeding group* — dominant mode of feeding, though not the specific nutritional source or benefits (e.g., suspension feeder, predator, etc.).
- *Habit* — dominant behavior of an animal for moving and maintaining physical position in its habitat (e.g., sprawling, clinging, etc.).
- *Degree of tolerance* — counts, proportions, or weighted scores of taxa based on ability to survive exposure to pollutants.

New Mexico's benthic macroinvertebrate samples used for analysis were collected between 1980 and 2001. Organisms in these collections were identified to the lowest taxonomic level possible (Appendix F). Prior to 1989 midges were not identified beyond family level. For our analyses using EDAS, we grouped the taxonomy of midges to family level and the remainder to a minimum of genus level to maintain taxonomic consistency for the collection. Within each sample, the number of individuals of each taxon was tallied. Samples with multiple replicates were combined for analysis. The identifications and counts of organisms collected at each site provided the information used to calculate a suite of metrics for each benthic sample (Appendix G).

Proposing candidate metrics for developing indices involves three basic steps, shown in the Metrics and Scoring box below. Metrics were calculated for each of the 767 New Mexico benthic macroinvertebrate samples using EDAS. These metrics represented five categories: taxonomic richness, taxonomic composition, feeding groups, habit, and tolerance (see metric categories box). Box-and whisker plots for the metrics were then examined to determine which metrics should be proposed for use in index development (Appendix E).

Metrics were converted to standardized scores using the formulas in Appendix H, based on the direction of the metric's response to stress. Percentile distributions of each metric's values were determined for the entire set of data (n = 767 benthic samples). Standardized score conversions use the 95th or 5th percentile, shown in Appendix H.

Metrics and Scoring

- ☐ *Calculate metrics* – Calculate values for the selected metrics for all 767 sampling sites.
- ☐ *Standardize scores* – Convert all metric values to a standard 0-100 point scale.
- ☐ *Propose metrics for use in index development* – Select the most discriminatory metrics by examining box-and-whisker plots.

Box-and-whisker plots for the standardized candidate metrics, comparing the distribution of values in reference sites with the distribution of values in stressed sites, are presented in Appendix E. The distributions displayed in these plots were evaluated as follows:

- The box portion of the plots represents the middle 50% of the metric values.
- The line inside the box represents the median metric value.
- The top of the box represents the 75th percentile of the metric distribution.
- The bottom of the box represents the 25th percentile of the metric distribution.
- The whiskers above and below the box represent the upper and lower tails of the distribution.
- Circles above or below the whiskers represent outliers or extremes in the distribution.
- If the box portions of the plots for reference and stressed sites for a particular metric did not overlap, or had minimal overlap, the metric was considered a possible candidate for index development and is listed in the following box.

Proposed Metrics

- Twenty-seven candidate metrics were selected for use in index development as follows:

Taxonomic Composition
Shannon DI (log_2)
Beck BI
HBI
Margalef DI
Percent Dominant Taxon
Evenness
Coleoptera %
Odonata %
Plecoptera %

Taxonomic Richness
EPT Taxa
Ephemeroptera Taxa
Coleoptera Taxa
Plecoptea Taxa
Trichoptera Taxa
Total Taxa

Tolerance
Baetis to Ephemeroptera %
Sensitive EPT%
Intolerant %
Intolerant Taxa

Habit
Clinger Taxa
Sprawler Taxa
Swimmer Taxa
Sprawler %
Swimmer %

Functional Feeding Group
Scraper %
Scraper Taxa
Shredder Taxa

5. EVALUATION AND SELECTION OF METRICS FOR BIOLOGICAL INDICES

A set of working indices for scoring New Mexico stream condition was determined for each of the site classes following the steps summarized in the box to the right. The process of metric selection is iterative, with the areas of consideration being revisited and weighed throughout the process. Selection of specific metrics for use in a stream condition index was based on several evaluation criteria using the 189 fall samples (see metric evaluation box).

Index Development

- *Select metrics* – Metric selection is further refined based on Discrimination Efficiencies for each Site.
- *Calculate index* – Average the standardized metric scores for each benthic sampling site for each index.

Metric Evaluation.

Metrics are included if they:

- are able to differentiate between reference and impaired sites (methods: box plots, discrimination efficiencies [DE]);
- represent at least some different aspects of the community (taxa composition, richness, tolerance, and other metric categories); and
- minimize redundancy among individual component metrics (method: Pearson correlations).

Indices were developed for the fall season and the three bioregions by examining the discrimination efficiencies for the candidate metrics for each index and selecting the most discriminatory metrics for each. These metrics should represent different community attributes and not be redundant (Appendix I).

Discrimination efficiencies (Paul and Gerritsen, 2002) were calculated based on the proportion of the values of the metric for the stressed sites which fell below the bottom of the box in the plot for the reference sites for metrics following metric standardization. All twenty-seven candidate metrics exhibited discrimination efficiencies of 50% or higher for one or more of the regions (Table 5-1). Additional discrimination efficiencies for these and excluded metrics are listed in Appendix I. One metric, HBI, exhibited trends in the opposite direction from that is expected for the measure and was not included in the proposed metrics. Two others, Coleoptera % and Coleoptera Taxa, can be expected go either direction but had high discrimination efficiencies for one region and were included in the set of proposed metrics.

Discriminatory metrics, identified on the basis of boxplots and discrimination efficiencies, represent five different categories of benthic community attributes: taxonomic richness, taxonomic composition, habit, functional feeding group and tolerance to environmental stress

(see Conclusion for Metric Selection box, page 20). Different sets of metrics had high or relatively high discrimination efficiencies for the three site classes. Table 5-1 reports the recommended metrics for use in stream condition indices for each region.

Pearson correlation coefficients (Appendix J) identified high correlations among several metrics, summarized in Table 5-2. These metrics (Shannon DI, Beck BI, D_MG, Percent Dominant taxon, Clinger taxa, EPT taxa, and Plecoptera taxa) were evaluated for inclusion in indices where one or more also had high discrimination efficiencies.

Table 5-1. Most efficient metrics (standardized) with thresholds (TH) and discrimination efficiencies (DE).

	Low Small		Low Large		High Small	
	TH	**DE**	**TH**	**DE**	**TH**	**DE**
Taxonomic Composition						
Shannon DI (log_2)	72.65	66.67%	72.65	79.17%	72.65	68.75%
Beck BI	14	55.56%	14	95.83%	18	81.25%
HBI	67.13	66.67%	67.13	54.17%	73.32	62.50%
Margalef DI	3.15	66.67%	3.15	87.50%	3.41	81.25%
Dominant Taxon	73.70	-	30.77	70.83%	73.70	-
Evenness	63.19	66.67%	77.56	83.33%	63.19	62.50%
Coleoptera Percent	4.887	88.89%	3.23	58.33%	3.23	56.25%
Plecoptera Percent	2.33	66.67%	2.33	75.00%	15.58	62.50%
Odonata Percent	0	66.67%	0.65	79.17%	0	75.00%
Taxonomic Richness						
EPT Taxa	12	77.78%	12	91.67	13	75.00%
Ephemeroptera Taxa	57.14	88.89%	57.14	83.33%	71.43	87.50%
Coloptera Taxa	1	-	2	83.33%	1	-
Plecoptera Taxa	14.29	66.67%	14.29	83.33%	42.86	68.75%
Trichoptera Taxa	62.5	77.78%	62.5	79.17%	62.5	62.50%
Total Taxa	64.52	66.67%	64.52	87.50%	64.52	56.25%
Tolerance						
Baetis to Ephemeroptera Pct.	49.57	-	49.57	79.17%	49.57	-
Sensitive EPT Percent	36.34	55.56%	20.81	50.00%	47.80	68.75%
Intolerant Percent	19.24	-	19.24	79.17%	39.23	68.75%
Intolerant Taxa	46.15	66.67%	46.15	83.33%	61.54	81.25%
Habit						
Clinger Taxa	11	77.78%	11	87.50%	11	68.75%
Sprawler Taxa	33.33	55.56%	33.33	75.00%	50	81.25%
Swimmer Taxa					50	81.25%
Sprawler Percent	3.37	-	20.81	70.83%	3.37	-
Swimmer Percent	8.28	-	8.28	91.67%	8.28	-
Functional Feeding Group						
Scraper %	12.25	88.89%	9.10	79.17%	9.10	68.75%
Scraper Taxa	50	88.89%	50	79.17%	50	68.75%
Shredder Taxa	33.33	55.56%	50	100.00%	33.33	-

Table 5-2. Metrics with high correlations.

Metric	**Associated Correlations**			
Beck BI	Clinger Taxa 0.840	EPT Taxa 0.937	Total taxa 0.855	Intolerant taxa 0.965
D_MG	Shannon DI 0.829	Beck BI 0.816	Total taxa 0.924	EPT Taxa 0.857
Clinger taxa	D_MG 0.852	EPT taxa 0.909	Total taxa 0.891	
EPT taxa	Plecoptera taxa 0.809	Total Taxa 0.895	Intolerant taxa 0.884	
Shannon DI	Percent Dominant taxon -0.898			
Plecoptera taxa	Intolerant taxa 0.844			

Conclusion for Metric Selection

- Candidate metrics were selected for use in index development as follows:

Low Elev. Small Catch.	Low Elev. Large Catch.	High Elev. Small Catch.
Taxonomic Composition	**Taxonomic Composition**	**Taxonomic Composition**
Shannon DI (log_2)	Shannon DI (log_2)	Shannon DI (log_2)
Beck BI	Beck BI	Beck BI
HBI	Margalef DI	Margalef DI
Margalef DI	% Dominant Taxon	Evenness
Evenness	Evenness	Odonota %
Coleoptera %	Odonota %	Plecoptera %
Odonota %	Plecoptera %	
Plecoptera %		
Taxonomic Richness	**Taxonomic Richness**	**Taxonomic Richness**
EPT Taxa	EPT Taxa	EPT Taxa
Ephemeroptera Taxa	Ephemeroptera Taxa	Ephemeroptera Taxa
Plecoptera Taxa	Coleoptera Taxa	Plecoptera Taxa
Trichoptera Taxa	Plecoptera Taxa	Trichoptera Taxa
Total Taxa	Trichoptera Taxa	Total Taxa
	Total Taxa	
Tolerance	**Tolerance**	**Tolerance**
Sensitive EPT %	Baetis to Ephemeroptera %	Sensitive EPT %
Intolerant Taxa	Intolerant Taxa	Intolerant Taxa
	Intolerant Percent	Intolerant Percent
Habit	**Habit**	**Habit**
Clinger Taxa	Clinger Taxa	Clinger Taxa
Sprawler Taxa	Sprawler Taxa	Sprawler Taxa
	Sprawler %	Swimmer Taxa
	Swimmer %	
Functional Feeding Group	**Functional Feeding Group**	**Functional Feeding Group**
Scraper %	Scraper %	Scraper %
Scraper Taxa	Scraper Taxa	Scraper Taxa
Shredder Taxa	Shredder Taxa	

6. AGGREGATING METRICS INTO BIOLOGICAL INDICIES

The metrics selected for each region were combined into a variety of indices, being careful to avoid including metrics which were highly correlated (Table 5-2). In addition, only metrics with discrimination efficiencies of 70% for the Low Large samples, 60% or higher for the High Small samples, and 50% or higher for the Low Small Samples were used in developing indices. The standardized metric scores were then averaged to provide indices with values ranging from 0 to 100.

The ranges of reference site values for the candidate New Mexico stream condition indices were compared with the ranges of values in the impaired sites by means of box-and-whisker plots (Appendix K). These boxplots indicated that the candidate indices had different abilities to discriminate between reference and stressed sites. Examination of the boxplots for the candidate regions indicated that thresholds for each bioregion were more appropriate than thresholds for the state level because of the large proportions of reference sites which would be classified as "stressed".

An index threshold based on the bottom of the box in the reference plot (25^{th} percentile) was determined for each candidate index. Discrimination efficiencies were calculated to show the percent of index values for the stressed sites which were below each index threshold. Thresholds and discrimination efficiencies for the candidate indices are presented in Appendix L. The candidate indices with the highest discrimination efficiencies for each bioregion in the fall sampling season were considered proposed indices.

Table 6-1. Thresholds and discrimination efficiencies for candidate index NMMSCI.

Fall Hess for Catchment Areas below 4000 mi^2		
Region	**Threshold**	**DE**
Low Small	43.55	77.78%
Low Large	51.64	91.67%
High Small	56.70	93.75%

7. TESTING AND REFINING THE INDICES USING INDEPENDENT DATA

Data from 128 other Hess samples with catchments greater than 4000 sq. mi. and 177 samples using kick-net sampling methods were used to validate the indices. Testing the indices on data which were not used in the index development indicates the utility of the indices and can show how the indices might work on future data collections and, in this case, using kick-nets. Only indices with the highest discrimination efficiencies for a region were tested on the remaining samples (Appendix L). A comparison of the candidate indices using results from the original data and the most discriminatory results from the independent test data showed reasonable agreement (Table 6-1). Samples from the stressed High Elevation Small Catchment sites had lower rates of classification as impaired than those from the Low Elevation sites. It is important to note that for the kick-net samples the reference sites would often be classified as impaired using these indices and thresholds for Low Elevation Large Catchment sites (52.5%).

The indices with the highest discrimination efficiencies for both data sets were selected as the final proposed indices for each region. The metrics included in the final indices are shown on page 24.

Table 7-1. Thresholds and discrimination efficiencies for candidate indices NMMSCI.

	LSNMMSCI	**LLNMMSCI**	**HSNNMSCI**
Threshold	43.55	51.64	56.70
Off Season Hess below 4000 mi^2			
Regional Samples	77.78%	91.67%	93.75%
Other Methods And Hess above 4000 mi^2	Stressed Site Samples	Stressed Site Samples	Stressed Site Samples
Regional Samples	70.00%	88.24%	69.57%
Ben_01	-	0.00%	100.00%
Ben_01a	60.00%	75.00%	75.00%
Ben_02	-	100.00%	-
Ben_03	-	100.00%	75.00%
Ben_03p	75.00%	100.00%	0.00%
Ben_03r	100.00%	0.00%	50.00%
Other Methods And Hess above 4000 mi^2	Reference Site Samples	Reference Site Samples	Reference Site Samples
Regional Samples	27.78%	48.21%	18.33%
Ben_01	-	0.00%	0.00%
Ben_01a	25.00%	36.36%	15.38%
Ben_02	100.00%	66.67%	-
Ben_03	22.73%	60.00%	26.67%
Ben_03p	42.86%	50.00%	22.22%
Ben_03r	25.00%	40.00%	11.11%

Final Index Metrics

- The final NMMSCI contained the following metrics:

Low Small NMMSCI	Low Large NMMSCI	High Small NMMSCI
Taxonomic Composition	**Taxonomic Composition**	**Taxonomic Composition**
Coleoptera %	Shannon DI (log_2)	Shannon DI (log_2)
		Evenness
		Plecoptera %
Taxonomic Richness	**Taxonomic Richness**	**Taxonomic Richness**
EPT Taxa	EPT Taxa	Ephemeroptera Taxa
Ephemeroptera Taxa	Ephemeroptera Taxa	Plecoptera Taxa
	Trichoptera Taxa	
Tolerance	**Tolerance**	**Tolerance**
Sensitive EPT %		Sensitive EPT %
		Intolerant Percent
Habit	**Habit**	**Habit**
Sprawler Taxa		Clinger Taxa
		Sprawler Taxa
		Swimmer Taxa
Functional Feeding Group	**Functional Feeding Group**	**Functional Feeding Group**
Scraper %	Scraper %	Scraper %
Scraper Taxa	Scraper Taxa	Scraper Taxa

8. CONCLUSIONS AND RECOMMENDATIONS

8.1 Rating System

Regional Stream Condition Indices for New Mexico streams (NMMSCI) can be used to assess the biological condition of New Mexico streams for the Fall sampling period. The recommendations for New Mexico Stream Condition Indices are as follows:

- All samples could be evaluated with their associated NMMSCI.
- Ratings of "Good" or "Very Good" could apply to sites that score at or above the 25th percentile of reference sites. Index scores below the 25th percentile threshold could be divided into three categories: "Fair", "Poor", or "Very Poor" (Barbour, et. al., 1999). Table 8-1 lists suggested ranges for the bioregion developed by equidistant partitioning of scores above and below the 25th percentile. These suggested ranges have been applied to the regions in Figures 8-1, 8-2, and 8-3.
- Appendix M provides a Microsoft Access Query which can be used to calculate the index for a sample or group of samples by entering the appropriate metric values from EDAS.

Table 8-1. Suggested rating system for the New Mexico Macroinvertebrate Stream Condition Indices.

Percent Comparison to Reference					
Rating	**Very Good**	**Good**	**Fair**	**Poor**	**Very Poor**
Low Small NMMSCI	>56.45	43.55 – 56.45	29.03 – 43.55	14.52 – 29.03	< 14.52
Low Large NMMSCI	> 75.82	51.64 – 75.82	34.43 - 51.64	17.21 - 34.43	<17.21
High Small NMMSCI	> 78.35	56.70 – 78.35	37.20 - 56.70	18.90 - 37.20	< 18.90

8.2 Developing confidence intervals for criteria

Occasionally a sample index value may be very close to one of the cut-off points for a rating condition. In that case it would be helpful to have a confidence interval around the cut-off when making decisions about the rating. Using the mean standard errors and critical values one can develop confidence intervals as shown in Appendix N.

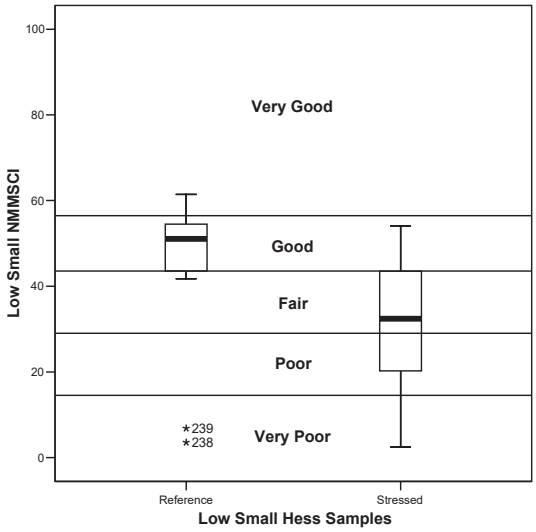

Figure 8-1. Box-and-whisker plot for Low Small NMMSCI with proposed ratings.

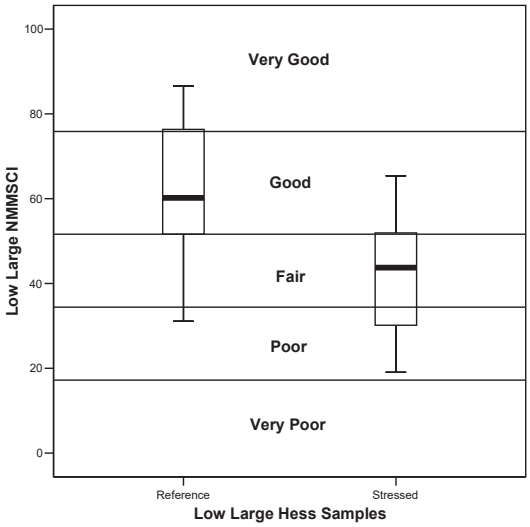

Figure 8-2. Box-and-whisker plot for Low Large NMMSCI with proposed ratings.

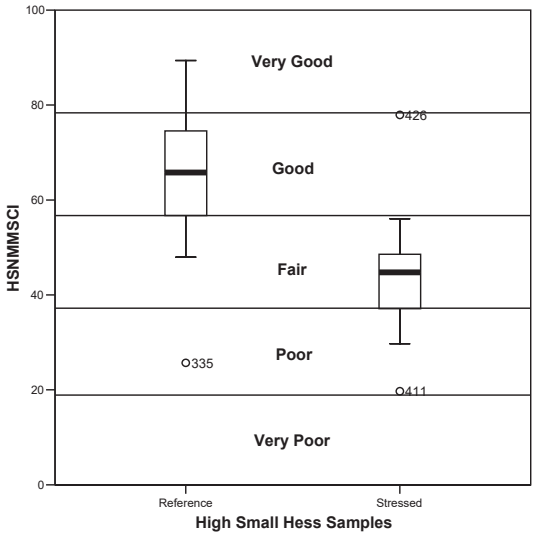

Figure 8-3. Box-and-whisker plot for High Small NMMSCI with proposed ratings.

8.3 Refining and maintaining the index

The suggested ranges of NMMSCI scores in Table 8-1 and the confidence intervals in Appendix N could be refined by periodic review (annually at a minimum) of the SCI as additional samples are available. Data for sites should be examined in more detail to determine if they were misidentified. Decisions on impairment should be based on both SCI scores and changes in the factors resulting in stress at the sites.

Annual addition of data for new and existing sites can be used to recalculate the indices. As the database increases and becomes more representative of the entire state, both the standard values and the index distributions should become more stable. In particular, additional sampling at Low Elevation Small Catchment sites should be carried out to determine if the low discrimination efficiencies observed for the development data set are an anomaly or an actual representation of the metrics for this bioregion.

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APPENDICES

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Appendix A: Site Locations and Physiography

StationID	WaterbodyName	BasinID	Eco3 ID	Eco4 ID	Region Game & Fish	Physiographic Region	Elevation Feet	Elevation meters	Lat Dec	Long Dec	Catchment Area Miles	Catchment Area km
02DryCim003.2	Dry Cimarron	11,040,001	26	261	3	1	4,349.28	1,326	36.91750000	-103.0272222	1,023.63	2,651.20
02DryCim049.8	Dry Cimarron	11,040,001	26	260	3	1	4,877.36	1,487	36.98861111	-103.4219444	545.00	1,411.55
02DryCim100.0	Dry Cimarron	11,040,001	21	211	2	1	6,012.24	1,833	36.89450000	-103.8638889	136.22	352.81
02DryCim103.6	Dry Cimarron	11,040,001	21	211	2	1	6,143.44	1,873	36.87305556	-103.8800000	231.58	599.79
04Vermej073.7	Vermejo River	11,080,001	21	211	1	1	7,080.40	2,158	36.81472222	-104.8963889	202.90	525.51
05Cieneg006.3	Cieneguilla Creek	11,080,002	21	211	1	1	8,189.83	2,496	36.48416667	-105.2641667	68.94	178.55
05Cieneg021.9	Cieneguilla Creek	11,080,002	21	210	1	1	8,566.69	2,611	36.36333333	-105.2858333	6.74	17.46
05SPonil004.0	South Ponil Creek	11,080,002	21	210	1	1	7,642.40	2,330	36.62360000	-105.0807000	10.50	27.20
05SPonil007.2	South Ponil Creek	11,080,002	21	210	1	1	8,026.16	2,447	36.62430000	-105.1128000	8.10	20.98
06Canadi232.6	Canadian River	11,080,003	26	261	3	1	4,424.51	1,348	35.65492000	-104.3779000	6,015.00	15,578.85
28Cabres005.4	Cabresto Creek	13,020,101	22	221	1	3	7,888.40	2,405	36.73055556	-105.5533333	34.28	88.79
28Casias000.6	Casias Creek	13,020,101	21	210	1	3	9,556.14	2,913	36.91349000	-105.2610200	16.16	41.96
28Columb000.1	Columbine Creek	13,020,101	21	211	1	3	7,862.16	2,397	36.68055556	-105.5147222	17.51	45.35
28Comanc000.1	Comanche Creek	13,020,101	21	210	1	3	8,960.96	2,732	36.83113889	-105.3177500	45.50	117.85
28Comanc007.7	Comanche Creek	13,020,101	21	210	1	3	9,220.08	2,811	36.77919444	-105.2751944	34.00	88.06
28RCosti025.6	Rio Costilla	13,020,101	22	221	1	3	7,950.72	2,424	36.96694444	-105.5063889	195.00	505.05
28RCosti048.9	Rio Costilla	13,020,101	21	210	1	3	8,970.25	2,734	36.83940000	-105.3079900	71.60	185.44
28RCosti052.2	Rio Costilla	13,020,101	21	210	1	3	8,891.51	2,710	36.83563889	-105.3445556	120.43	311.91
28RCosti055.5	Rio Costilla	13,020,101	21	210	1	3	9,331.16	2,844	36.87319444	-105.2822778	54.60	141.41
28RCosti057.9	Rio Costilla	13,020,101	21	210	1	3	9,403.35	2,866	36.89741667	-105.2605833	17.05	44.16
28RedRiv005.3	Red River	13,020,101	22	221	1	3	7,136.18	2,175	36.68027778	-105.6555556	185.00	479.15
28RedRiv014.5	Red River	13,020,101	22	221	1	3	7,464.28	2,275	36.70333333	-105.5677778	113.00	292.67
28RedRiv024.1	Red River	13,020,101	21	210	1	3	8,202.50	2,500	36.69861111	-105.4794444	72.61	188.06
28RedRiv024.9	Red River	13,020,101	21	210	1	3	8,891.51	2,710	36.67361111	-105.3791667	28.90	74.85
28RedRiv027.8	Red River	13,020,101	21	210	1	3	8,547.01	2,605	36.70777778	-105.4372222	66.60	172.49
28RedRiv028.5	Red River	13,020,101	21	210	1	3	8,645.44	2,635	36.70694444	-105.4280556	66.86	173.17
28RFrijo004.8	Frijoles	13,020,101	22	221	1	3	7,019.20	2,140	35.93694444	-105.8708333	21.03	54.47
28RGrand541.2	Rio Grande	13,020,101	22	221	2	3	5,444.80	1,660	35.83544444	-106.1636111	14,310.00	37,062.90
28RGuaje021.7	Rio Guaje	13,020,101	21	210	1	3	8,258.28	2,517	35.92944444	-106.3550000	3.60	9.32
28RHondo000.1	Rio Hondo	13,020,101	22	221	2	3	6,453.73	1,967	36.53583333	-105.7083333	73.60	190.62
28RHondo014.8	Rio Hondo	13,020,101	22	221	1	3	7,641.45	2,329	36.54166667	-105.5558333	36.20	93.76
28RMedio013.3	Rio en Medio	13,020,101	21	211	1	3	8,980.10	2,737	35.80333333	-105.8333333	4.86	12.59
28RMedio016.9	Rio en Medio	13,020,101	21	210	1	3	10,466.39	3,190	35.79336111	-105.7994167	0.70	1.81
28RMedio017.5	Rio en Medio	13,020,101	21	210	1	3	10,637.00	3,242	35.79147222	-105.7935833	0.40	1.04
28RNambe005.1	Rio Nambe	13,020,101	22	221	2	3	6,861.76	2,092	35.84944444	-105.8963889	27.50	71.23
28SanCru019.1	Santa Cruz River	13,020,101	22	221	2	3	6,451.99	1,967	35.96472222	-105.9038889	86.00	222.74
29Abiqui001.8	Abiquiu Creek	13,020,102	22	221	2	3	5,989.28	1,852	36.19777778	-106.3230556	43.35	111.37
29Chihua001.3	Chihuahuenos Creek	13,020,102	21	211	1	3	7,778.34	2,371	36.10972222	-106.4711111	7.20	18.65
29Coyote017.5	Coyote Creek	13,020,102	21	210	1	3	8,599.32	2,621	36.04888889	-106.6019444	8.00	20.72
29ElRito035.9	El Rito	13,020,102	21	211	1	3	8,015.05	2,443	36.44000000	-106.2727778	36.00	93.24
29ElRito050.2	El Rito	13,020,102	21	210	1	3	9,419.31	2,871	36.55611111	-106.2900000	7.00	18.13
29LitTus003.4	Little Tusas	13,020,102	21	210	1	3	8,997.83	2,743	36.74638889	-106.1475000	7.00	18.13
29Polvad009.0	Polvadera Creek	13,020,102	22	221	2	3	6,610.79	2,015	36.18305556	-106.4316667	33.00	85.47
29RCanji039.4	Rio Canjilon	13,020,102	21	211	1	3	8,042.02	2,451	36.50638889	-106.4025000	24.00	62.16
29RChama004.5	Chama River	13,020,102	22	221	2	3	5,653.16	1,723	36.07388889	-106.1116667	3,144.00	8,142.96
29RChama019.3	Chama River	13,020,102	22	221	2	3	5,794.25	1,766	36.16861111	-106.1827778	2,477.36	6,416.36
29RChama050.4	Chama River	13,020,102	22	221	2	3	6,050.16	1,844	36.23666667	-106.4163889	2,147.00	5,560.73
29RChama079.5	Chama River	13,020,102	22	221	2	3	6,337.13	1,932	36.32722222	-106.6183333	1,608.00	4,164.72
29RChama089.5	Chama River	13,020,102	21	211	2	3	6,402.05	1,951	36.36972222	-106.6796667	1,695.00	4,390.05
29RChama090.1	Chama River	13,020,102	21	211	2	3	6,512.79	1,985	36.46088889	-106.7055000	1,145.00	2,965.55
29RChama118.1	Chama River	13,020,102	22	221	2	3	6,709.67	2,040	36.55116667	-106.7160833	860.00	2,227.40
29RChama122.6	Chama River	13,020,102	22	221	2	3	6,811.54	2,076	36.59133333	-106.7303889	793.00	2,053.87
29RChama157.0	Chama River	13,020,102	21	210	1	3	7,690.66	2,344	36.85072222	-106.5868056	168.00	435.12
29RChama161.1	Chama River	13,020,102	21	210	1	3	7,766.13	2,367	36.87841667	-106.5829167	120.67	312.54

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29RChama165.4	Chama River	13,020,102	21	210	1	3	7,884.24	2,403	36.91250000	-106.5730556	106.15	274.93
29RChama166.4	Chama River	13,020,102	21	210	1	3	7,917.05	2,413	36.91880556	-106.5715278	106.15	274.93
29RChami002.6	Rio Chamita	13,020,102	21	210	1	3	7,762.85	2,366	36.87911111	-106.5870278	46.14	119.50
29RChami002.8	Rio Chamita	13,020,102	21	210	1	3	7,766.13	2,367	36.88025000	-106.5873056	46.14	119.50
29RGalli005.5	Rio Gallina	13,020,102	21	211	2	3	6,584.82	2,007	36.40444444	-106.7255556	271.00	701.89
29RGalli048.3	Rio Gallina	13,020,102	21	211	1	3	8,249.76	2,515	36.17583333	-106.8519444	7.00	18.13
29RioOso004.5	Rio del Oso	13,020,102	22	221	2	3	5,887.60	1,795	36.09222222	-106.1822222	38.60	99.97
29RioOso004.7	Rio del Oso	13,020,102	22	221	2	3	5,916.65	1,803	36.09194444	-106.1861111	39.00	101.01
29RioOso008.8	Rio del Oso	13,020,102	22	221	2	3	6,220.78	1,896	36.07638889	-106.2208333	33.10	85.73
29RPuerc037.5	Rio Puerco de Chama	13,020,102	21	210	1	3	8,277.96	2,523	36.10022222	-106.7269167	14.80	38.33
29RResum002.4	Rito Resumedero	13,020,102	21	210	1	3	9,022.75	2,750	36.11490000	-106.7543000	5.90	15.28
29RTusas028.5	Rio Tusas	13,020,102	21	210	1	3	7,673.47	2,339	36.57861111	-106.0386111	102.00	264.18
29RValle037.8	Rio Vallecito	13,020,102	21	210	1	3	8,783.24	2,677	36.63638889	-106.2133333	48.00	124.32
30CanVal003.7	Canyon de Valle	13,020,201	21	210	1	3	7,303.51	2,226	35.85083333	-106.3300000	4.12	10.67
30CanVal004.0	Canyon de Valle	13,020,201	21	210	1	3	7,369.85	2,247	35.84972200	-106.3338890	10.00	11.00
30Pajari015.8	Pajarito Creek	13,020,201	21	210	1	3	7,319.91	2,231	35.85694444	-106.3322222	2.78	7.20
30SantaF003.7	Santa Fe River	13,020,201	22	220	2	3	5,279.13	1,609	35.58805556	-106.3060000	257.50	666.93
30SantaF057.4	Santa Fe River	13,020,201	21	210	1	3	7,930.18	2,417	35.68861111	-105.8222222	10.60	27.45
31EFkJem010.1	East Fork Jemez River	13,020,202	21	210	1	3	8,209.06	2,502	35.82416667	-106.5644444	51.00	132.09
31EFkJem015.0	East Fork Jemez River	13,020,202	21	210	1	3	8,419.05	2,566	35.81363889	-106.5268333	45.00	116.55
31JemezR046.9	Jemez River	13,020,202	22	221	2	3	5,620.35	1,713	35.65388889	-106.7369444	473.35	1,225.98
31JemezR049.2	Jemez River	13,020,202	22	221	2	3	5,667.84	1,728	35.67110000	-106.7348000	200.00	518.00
31RCebol000.1	Rio Cebolla	13,020,202	21	210	1	3	7,201.06	2,195	35.82041667	-106.7879722	67.00	173.53
31RGuada000.1	Rio Guadalupe	13,020,202	22	221	2	3	5,659.73	1,725	35.67175000	-106.7445833	273.57	708.55
31RVacas000.5	Rio de las Vacas	13,020,202	21	210	1	3	7,242.24	2,208	35.82333333	-106.7908333	121.00	313.39
31RVacas012.6	Rio de las Vacas	13,020,202	21	210	1	3	8,274.68	2,522	36.00000000	-106.8082222	17.50	45.33
31RVacas017.4	Rio de las Vacas	13,020,202	21	210	1	3	9,472.25	2,887	36.03690000	-106.8180000	13.00	33.67
45Mimbre127.4	Mimbres River	13,030,202	23	230	2	2	6,837.60	2,084	33.04194444	-107.9788889	29.00	75.11
50CowCre064.0	Cow Creek	13,060,001	21	210	1	1	10,338.43	3,151	35.77113889	-105.5753611	3.00	7.77
50Dalton000.1	Dalton Creek	13,060,001	21	210	1	1	7,290.38	2,222	35.65861111	-105.6906944	10.90	28.23
50ElPorv000.1	El Porvenir Creek	13,060,001	21	211	1	1	7,254.29	2,211	35.69000000	-105.3758333	25.97	67.26
50ElPorv004.8	El Porvenir Creek	13,060,001	21	210	1	1	7,559.42	2,304	35.71111111	-105.4152778	22.00	56.98
50Gallin114.6	Gallinas River	13,060,001	21	211	2	1	6,726.05	2,050	35.65416667	-105.2750000	87.00	225.33
50Gallin119.7	Gallinas River	13,060,001	21	211	2	1	6,865.04	2,093	35.65194444	-105.3183333	84.00	217.56
50Gallin131.8	Gallinas River	13,060,001	21	210	1	1	7,480.68	2,280	35.69905556	-105.4161667	21.00	54.39
50Gallin141.9	Gallinas River	13,060,001	21	210	1	1	8,435.45	2,571	35.72213889	-105.4973333	84.00	217.56
50HolyGh000.6	Holy Ghost Creek	13,060,001	21	210	1	1	7,917.05	2,413	35.74427778	-105.6837778	15.00	38.85
50HolyGh002.1	Holy Ghost Creek	13,060,001	21	210	1	1	7,999.08	2,438	35.75602778	-105.6913889	14.00	36.26
50PecosR512.6	Pecos River	13,060,001	22	221	4	1	4,444.48	1,355	34.82700000	-104.6257700	3,970.00	10,282.30
50PecosR803.7	Pecos River	13,060,001	21	210	1	1	7,775.97	2,370	35.76119444	-105.6711389	129.99	336.67
50Tecolo071.6	Tecolote Creek	11,080,004	21	210	1	1	8,468.26	2,581	35.68788889	-105.4795000	2.80	7.25
50Tecolo072.0	Tecolote Creek	13,060,001	21	210	1	1	8,583.10	2,616	35.69252778	-105.4782222	2.50	6.48
50Tecolo072.8	Tecolote Creek	13,060,001	21	210	1	1	8,494.51	2,589	35.68925000	-105.4809167	2.00	5.18
50Tecolo074.1	Tecolote Creek	13,060,001	21	210	1	1	8,730.74	2,661	35.69261111	-105.4941944	1.40	3.63
50Wright000.6	Wright Canyon	13,060,001	21	210	1	1	8,596.22	2,620	35.69319444	-105.4784444	5.80	15.02
50Wright000.7	Wright Canyon	13,060,001	21	210	1	1	8,609.34	2,624	35.69425000	-105.4788611	5.70	14.76
50Wright002.6	Wright Canyon	13,060,001	21	210	1	1	9,000.32	2,744	35.70513889	-105.4906111	0.40	1.04
57RRuido001.3	Rio Ruidoso	13,060,008	23	231	2	1	5,197.10	1,584	33.38694444	-105.2838889	295.50	765.35
60PecosR011.3	Pecos River	13,060,011	24	241	4	1	2,840.48	866	32.06361111	-104.0052778	19,581.69	50,716.57
60PecosR050.2	Pecos River	13,060,011	24	241	4	1	2,935.60	895	32.24041667	-104.0477778	19,165.00	49,637.35
60PecosR093.2	Pecos River	13,060,011	24	241	4	1	3,086.48	941	32.41083333	-104.2186111	18,550.00	48,044.50
62Delawa001.0	Delaware River	13,070,002	24	241	4	1	2,847.91	868	32.03033000	-104.0299900	689.00	1,784.51
64Navajo009.7	Navajo River	14,080,101	21	211	2	4	6,581.69	2,006	36.94913889	-107.0590278	255.20	660.97
64Navajo015.5	Navajo River	14,080,101	21	211	2	4	6,555.44	1,998	36.94886111	-107.0720833	439.16	1,137.42
64Navajo023.3	Navajo River	14,080,101	21	211	2	4	6,512.79	1,985	36.96858333	-107.0844722	172.00	445.48
64Navajo029.4	Navajo River	14,080,101	21	211	2	4	6,863.85	2,092	36.96525000	-106.9594167	230.71	597.54
77BlackC000.1	Black Canyon Creek	15,040,001	23	230	2	4	5,751.59	1,753	33.17380556	-108.1616944	105.91	274.31

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77BlackC028.3	Black Canyon Creek	15,040,001	23	230	1	4	7,296.94	2,224	33.16478725	-107.9474282	15.00	38.85
77Bonner002.4	Bonner Creek	15,040,001	23	230	1	4	7,191.07	2,192	33.18111111	-107.9598056	7.00	18.13
77EFkGil000.1	East Fork Gila River	15,040,001	23	230	2	4	5,553.04	1,693	33.18008333	-108.2053333	1,027.00	2,659.93
77EFkGil010.0	East Fork Gila River	15,040,001	23	230	2	4	5,714.90	1,742	33.18412445	-108.1653175	1,016.00	2,631.44
77EFkGil035.4	East Fork Gila River	15,040,001	23	230	2	4	6,155.16	1,876	33.30166667	-108.1233333	715.51	1,853.17
77GilaRi092.0	Gila River	15,040,001	23	230	3	4	4,863.96	1,482	33.08105222	-108.4570683	1,792.00	4,641.28
77MFkGil028.3	Middle Fork Gila River	15,040,001	23	230	2	4	6,399.06	1,950	33.31914021	-108.3423270	258.00	668.22
77Mogoll038.8	Mogollon Creek	15,040,001	23	230	2	4	6,745.74	2,056	33.21766667	-108.5368333	12.34	31.96
77Mogoll042.0	Mogollon Creek	15,040,001	23	230	1	4	7,073.84	2,156	33.19897222	-108.5075000	9.10	23.57
77TrailC000.1	Trail Canyon Creek	15,040,001	23	230	2	4	6,726.05	2,050	33.21836111	-108.5365000	2.80	7.25
77WFkGil000.3	Gila River	15,040,001	23	230	2	4	5,585.84	1,703	33.18213889	-108.2048611	509.29	1,319.06
77WFkGil038.1	West Fork Gila River	15,040,001	23	230	2	4	6,940.38	2,115	33.28256371	-108.4674127	34.00	88.06
77Willow000.6	Willow Creek	15,040,001	23	230	1	4	7,930.18	2,417	33.40573920	-108.5759121	16.00	41.44
78GilaRi026.1	Gila River	15,040,002	24	240	4	4	4,005.03	1,221	32.64687118	-108.8458149	3,210.00	8,313.90
78GilaRi052.6	Gila River	15,040,002	23	231	4	4	4,393.26	1,339	32.87199150	-108.5948819	2,619.00	6,783.21
78GilaRi074.8	Gila River	15,040,002	23	231	3	4	4,620.26	1,408	33.04298000	-108.5282500	2,015.00	5,218.85
80Negrit000.1	Negrito Creek	15,040,004	23	230	2	4	5,797.53	1,767	33.68277778	-108.7444444	192.69	499.07
80SanFra028.6	San Francisco River	15,040,004	23	231	3	4	4,560.59	1,390	33.24666667	-108.8797222	1,653.00	4,281.27
80SanFra105.7	San Francisco River	15,040,004	23	230	2	4	5,682.69	1,732	33.67805556	-108.7758333	434.00	1,124.06
80SanFra115.7	San Francisco River	15,040,004	23	230	2	4	5,751.59	1,753	33.73666667	-108.7705556	350.00	906.50
80SanFra154.1	San Francisco River	15,040,004	23	230	1	4	7,139.46	2,176	33.81833333	-108.9897222	67.50	174.83
80Tularo029.6	Rio Tularosa	13,050,003	23	230	2	2	5,566.16	1,697	33.15125000	-105.8860833	116.00	300.44
04Canadi363.5	Canadian River	11,080,001	26	260	2	1	5,702.92	1,739	36.39381000	-104.5236000	1,701.78	4,407.61
04Canadi402.9	Canadian River	11,080,001	26	260	2	1	6,002.55	1,830	36.65213000	-104.4883200	631.97	1,636.80
04Canadi409.4	Canadian River	11,080,001	26	260	2	1	6,240.46	1,902	36.78611111	-104.4625000	229.00	593.11
04Canadi429.9	Canadian River	11,080,001	21	211	2	1	6,591.82	2,009	36.87500000	-104.5416667	111.38	288.47
04Vermej002.9	Vermejo River	11,080,001	26	260	2	1	5,889.40	1,795	36.49722222	-104.5666667	558.20	1,445.74
04Vermej045.4	Vermejo River	11,080,001	21	211	2	1	6,365.14	1,940	36.68055556	-104.7847222	301.00	779.59
05Cieneg016.5	Cieneguilla Creek	11,080,002	21	211	1	1	8,379.67	2,554	36.41083333	-105.2838889	20.61	53.38
05Cieneg018.5	Cieneguilla Creek	11,080,002	21	211	1	1	8,415.77	2,565	36.39611111	-105.2836111	15.53	40.22
05Cieneg019.3	Cieneguilla Creek	11,080,002	21	211	1	1	8,455.14	2,577	36.38444444	-105.2836111	11.98	31.03
05Cimmar018.4	Cimarron River	11,080,002	26	261	2	1	5,822.77	1,775	36.38214000	-104.6340200	1,001.00	2,592.59
05Cimmar044.5	Cimarron River	11,080,002	26	261	2	1	6,197.81	1,889	36.47055556	-104.8313889	335.74	869.57
05Cimmar050.8	Cimarron River	11,080,002	21	211	2	1	6,614.50	2,016	36.51666667	-104.9763889	294.00	761.46
05Cimmar072.7	Cimarron River	11,080,002	21	210	1	1	8,030.03	2,448	36.52802000	-105.1859800	195.37	506.01
05Cimmar077.2	Cimarron River	11,080,002	21	211	1	1	8,054.86	2,455	36.53861111	-105.2222222	157.42	407.72
05Mccrys007.0	McCrystal Creek	11,080,002	21	210	1	1	8,703.19	2,653	36.81466000	-105.1431000	5.84	15.13
05MonteV000.5	Monte Verde Creek	11,080,002	21	210	1	1	8,655.92	2,639	36.35370000	-105.2953000	1.50	3.89
05Moreno003.7	Moreno Creek	11,080,002	21	211	1	1	8,218.91	2,505	36.55333333	-105.2677778	72.06	186.64
05MPonil000.1	Middle Ponil Creek	11,080,002	21	210	1	1	7,183.20	2,190	36.62222222	-105.0380556	71.00	183.89
05MPonil027.2	Middle Ponil Creek	11,080,002	21	210	1	1	9,528.40	2,905	36.77638889	-105.2136111	5.70	14.76
05NPonil000.1	North Ponil Creek	11,080,002	21	211	2	1	6,710.88	2,046	36.58805556	-104.9655556	70.00	181.30
05NPonil027.5	North Ponil Creek	11,080,002	21	210	1	1	8,003.20	2,440	36.77555556	-105.0983333	15.50	40.15
05PonilC023.8	Ponil Creek	11,080,002	21	211	2	1	6,642.00	2,025	36.57333333	-104.9463889	171.00	442.89
05Rayado033.8	Rayado Creek	11,080,002	21	211	2	1	6,791.57	2,070	36.37222222	-104.9694444	65.00	168.35
05Sixmil001.4	Sixmile Creek	11,080,002	21	211	1	1	8,222.19	2,506	36.51833333	-105.2744444	11.30	29.27
06Canadi274.8	Canadian River	11,080,003	26	261	3	1	4,885.41	1,489	35.91944444	-104.3527778	3,865.37	10,011.33
06Canadi322.5	Canadian River	11,080,003	26	261	2	1	5,083.69	1,550	36.04447000	-104.3696600	3,777.63	9,784.06
06Canadi348.3	Canadian River	11,080,003	26	260	2	1	5,626.92	1,715	36.29694444	-104.4933333	2,850.00	7,381.50
07Coyote011.8	Coyote Creek	11,080,004	26	261	2	1	6,947.37	2,118	35.97089000	-105.1837900	161.64	418.65
07Coyote040.0	Coyote Creek	11,080,004	21	211	1	1	7,680.46	2,342	36.17692000	-105.2325600	72.36	187.41
07Coyote047.9	Coyote Creek	11,080,004	21	211	1	1	8,396.58	2,560	36.27591000	-105.2477500	45.79	118.60
07Manuel020.9	Manuelitas Creek	11,080,004	21	210	1	1	7,972.83	2,430	35.85500000	-105.4555556	3.92	10.15
07MoraRi078.7	Mora River	11,080,004	26	260	2	1	6,262.23	1,909	35.81307000	-104.8950400	1,043.71	2,703.21
07MoraRi132.9	Mora River	11,080,004	21	210	1	1	7,342.88	2,238	35.99444444	-105.3686111	119.55	309.63
07MoraRi146.6	Mora River	11,080,004	21	210	1	1	7,130.15	2,173	35.96613889	-105.3018333	169.00	437.71
07MoraRi147.1	Mora River	11,080,004	21	210	1	1	7,130.15	2,173	35.96975000	-105.3052222	168.00	435.12

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07MoraRi170.9	Mora River	11,080,004	21	210	1	1	7,851.43	2,393	36.11611111	-105.3752778	57.00	147.63
07MoraRi179.1	Mora River	11,080,004	21	210	1	1	8,219.68	2,506	36.16013889	-105.3446111	34.00	88.06
07Sapell000.1	Sapello River	11,080,004	26	260	2	1	6,496.38	1,980	35.79470000	-104.9813000	300.00	777.00
07Sapell044.4	Sapello River	11,080,004	21	211	2	1	6,945.88	2,117	35.76916667	-105.2519444	140.20	363.12
07Sapell057.4	Sapello Creek	11,080,004	21	210	1	1	7,500.69	2,287	35.79532000	-105.3935900	13.24	34.29
07Sapell069.8	Sapello River	11,080,004	21	210	1	1	8,218.91	2,505	35.81972222	-105.4652778	5.20	13.47
08Concha039.1	Conchas River	11,080,005	26	261	3	1	4,424.51	1,348	35.38569000	-104.4772200	523.00	1,354.57
08Tremen026.2	Trementina Creek	11,080,005	26	261	3	1	4,575.60	1,395	35.47349000	104.4346700	20.00	155.40
09Canadi039.0	Canadian River	11,080,006	26	261	4	1	3,606.52	1,100	35.37563000	-103.2684900	11,437.88	29,624.11
09Canadi062.4	Canadian River	11,080,006	26	261	4	1	3,670.32	1,119	35.35694444	-103.4175000	11,141.00	28,855.19
09Canadi184.1	Canadian River	11,080,006	26	261	4	1	3,972.07	1,211	35.34871000	-104.0722700	7,529.51	19,501.43
10PaloBl005.1	Palo Blanco	11,080,007	26	260	2	1	6,032.51	1,839	36.40300000	-104.0026000	20.00	192.70
10UteCre145.0	Ute Creek	11,080,007	26	260	2	1	5,412.00	1,650	36.19975000	-103.8456600	511.25	1,324.14
16Seneca048.5	Seneca Creek	11,100,101	26	261	2	1	5,343.37	1,629	36.60052000	-103.3944500	113.68	294.43
27RPinos000.8	Rio de los Pinos	13,010,005	22	221	1	3	8,019.60	2,445	36.99216667	-106.0593333	125.00	323.75
27RPinos011.3	Rio de los Pinos	13,010,005	21	211	1	3	8,200.00	2,500	36.95647222	-106.1460833	107.00	277.13
27RSanAn025.3	Rio San Antonio	13,010,005	21	211	1	3	8,798.08	2,682	36.85780000	-106.1294000	60.50	156.70
28BigTes013.2	Big Tesuque Creek	13,020,201	21	210	1	3	10,325.31	3,147	35.77838889	-105.8000000	0.67	1.74
28DPCany012.4	DP Canyon	13,020,101	21	211	2	3	6,913.07	2,107	35.87277778	-106.2597222	8.80	22.79
28Embudo000.8	Embudo Creek	13,020,101	22	221	2	3	5,872.99	1,790	36.21083333	-105.9130556	312.00	808.08
28Embudo020.5	Rio Embudo	13,020,101	22	221	1	3	7,156.96	2,182	36.19694444	-105.7350000	204.58	529.86
28LosAla010.5	Los Alamos Canyon	13,020,101	21	211	2	3	6,512.79	1,985	35.87027778	-106.2383333	11.38	29.47
28LosAla021.0	Los Alamos Canyon	13,020,101	21	210	1	3	7,598.80	2,316	35.88336111	-106.3532500	6.22	16.11
28LosAla021.5	Los Alamos Canyon	13,020,101	21	210	1	3	7,727.68	2,356	35.88583333	-106.3588889	6.06	15.70
28NFkRHo000.5	North Fork Rio Hondo	13,020,101	21	210	1	3	9,439.44	2,877	36.60000000	-105.4488889	3.90	10.10
28NFkTes002.1	North Fork Tesuque Creek	13,020,201	21	210	1	3	10,197.52	3,109	35.77875000	-105.7999722	0.63	1.63
28RChupa015.2	Rio Chupadero	13,020,101	21	211	1	3	8,389.58	2,557	35.78560000	-105.8694000	9.00	23.31
28RCosti046.7	Rio Costillo	13,020,101	21	211	1	3	8,765.12	2,672	36.84442000	-105.3747300	128.98	334.06
28RCosti048.6	Rio Costilla	13,020,101	21	210	1	3	8,960.96	2,732	36.83194444	-105.3194444	71.00	183.89
28RedRiv000.9	Red River	13,020,101	22	221	2	3	6,751.62	2,058	36.65305556	-105.6866667	188.35	487.83
28RedRiv009.8	Red River	13,020,101	22	221	1	3	7,267.42	2,215	36.69250000	-105.6116667	158.74	411.14
28RedRiv012.7	Red River	13,020,101	22	221	1	3	7,106.65	2,166	36.68527778	-105.6513889	180.00	466.20
28RedRiv017.1	Red River	13,020,101	21	211	1	3	7,680.82	2,341	36.68861111	-105.5402778	105.00	271.95
28RedRiv019.6	Red River	13,020,101	21	211	1	3	7,854.71	2,394	36.68111111	-105.5147222	98.00	253.82
28RedRiv025.4	Red River	13,020,101	21	210	1	3	8,251.72	2,515	36.70090000	-105.4670000	72.06	186.64
28RedRiv031.1	Red River	13,020,101	21	210	1	3	8,455.14	2,577	36.70500000	-105.4041667	53.04	137.37
28RFerna008.2	Rio Fernando de Taos	13,020,101	22	221	1	3	7,166.10	2,184	36.37550000	-105.5492000	71.70	185.70
28RFerna032.5	Rio Fernando de Taos	13,020,101	21	210	1	3	8,954.40	2,730	36.41916667	-105.3416667	6.00	15.54
28RGRanc011.1	Rio Grande	13,020,101	22	221	1	3	7,260.99	2,213	36.29777778	-105.5819444	84.00	217.56
28RGRanc015.6	Rio Grande	13,020,101	21	211	1	3	7,488.70	2,283	36.26070000	-105.5754000	42.00	108.78
28RGrand572.8	Rio Grande	13,020,101	22	221	2	3	5,621.92	1,714	36.06611111	-106.0761111	10,550.00	27,324.50
28RGrand595.7	Rio Grande	13,020,101	22	221	2	3	5,822.00	1,775	36.20986111	-105.9439444	10,400.00	26,936.00
28RGrand624.3	Rio Grande	13,020,101	22	221	2	3	5,838.40	1,780	36.21361111	-105.9344444	10,400.00	26,936.00
28RGrand647.9	Rio Grande	13,020,101	22	221	2	3	6,074.56	1,852	36.32000000	-105.7538889	9,730.00	25,200.70
28RGrand650.8	Rio Grande	13,020,101	22	221	2	3	6,074.56	1,852	36.33861111	-105.7294444	9,730.00	25,200.70
28RGrand663.4	Rio Grande	13,020,101	22	221	2	3	6,674.80	2,035	36.65388889	-105.6911111	8,528.11	22,087.81
28RGrand731.6	Rio Grande	13,020,101	22	221	1	3	7,330.80	2,235	36.88055556	-105.7033333	8,152.00	21,113.68
28RHondo003.9	Rio Hondo	13,020,101	22	221	2	3	6,752.30	2,058	36.53527778	-105.6666667	65.90	170.68
28RHondo012.1	Rio Hondo	13,020,101	22	221	1	3	7,415.06	2,260	36.53277778	-105.5833333	39.10	101.27
28RHondo022.4	Rio Hondo	13,020,101	21	210	1	3	8,629.03	2,630	36.58500000	-105.4941667	12.53	32.45
28RHondo026.7	Rio Hondo	13,020,101	21	210	1	3	9,370.54	2,856	36.59583333	-105.4555556	8.20	21.24
28RHondo026.9	Rio Hondo	13,020,101	21	210	1	3	9,380.38	2,859	36.59638889	-105.4536111	8.00	20.72
28RiOlla000.8	Rito de la Olla	13,020,101	22	221	1	3	7,404.81	2,257	36.27616667	-105.5764444	34.00	88.06
28RLucer013.0	Rio Lucero	13,020,101	21	211	1	3	8,041.02	2,451	36.50830000	-105.5302000	16.60	42.99
28RMedio007.2	Rio en Medio	13,020,101	22	221	1	3	7,222.03	2,201	35.82060000	-105.8903000	16.00	41.44
28RNambe001.1	Rio Nambe	13,020,101	22	221	2	3	6,284.48	1,916	35.85955556	-105.9323889	38.00	98.42
28RNambe004.0	Rio Nambe	13,020,101	22	221	2	3	6,721.65	2,049	35.84616667	-105.9069722	34.00	88.06

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28RPuebl000.3	Rio del Pueblo	13,020,101	22	221	1	3	7,183.20	2,190	36.19861111	-105.7313889	145.29	376.30
28RPuebl012.4	Rio del Pueblo	13,020,101	21	211	1	3	7,750.38	2,362	36.17150000	-105.6123000	101.00	261.59
28RPuebl019.0	Rio del Pueblo	13,020,101	21	210	1	3	8,229.52	2,509	36.15027778	-105.5550000	81.07	209.97
28RPuebT000.1	Rio Pueblo de Taos	13,020,101	22	221	2	3	6,135.47	1,870	36.33888889	-105.7291667	418.10	1,082.88
28RPuebT003.5	Rio Pueblo de Taos	13,020,101	22	221	2	3	6,634.18	2,022	36.35500000	-105.7050000	404.10	1,046.62
28RPuebT008.2	Rio Pueblo de Taos	13,020,101	22	221	2	3	6,660.43	2,030	36.37722222	-105.6686111	380.00	984.20
28RPuebT013.2	Rio Pueblo de Taos	13,020,101	22	221	2	3	6,726.05	2,050	36.38972222	-105.6300000	198.60	514.37
28RPuebT015.8	Rio Pueblo de Taos	13,020,101	22	221	2	3	6,798.23	2,072	36.39888889	-105.6097222	90.50	234.40
28RQuema003.1	Rio Quemado	13,020,101	22	221	2	3	6,461.98	1,970	36.00120000	-105.9022000	43.00	111.37
28RSanBa000.1	Rio Santa Barbara	13,020,101	22	221	1	3	7,165.70	2,184	36.19722222	-105.7341667	60.00	155.40
28RSanBa017.9	Rio Santa Barbara	13,020,101	21	210	1	3	8,875.11	2,705	36.08527778	-105.6080556	34.10	88.32
28Sandia011.2	Sandia Canyon	13,020,101	21	211	2	3	6,788.39	2,069	35.86638889	-106.2694444	1.30	3.37
28Sandia012.1	Sandia Canyon	13,020,101	21	211	1	3	7,034.46	2,144	35.87000000	-106.2916667	1.00	2.59
28Sandia015.8	Sandia Canyon	13,020,101	21	210	1	3	7,237.89	2,206	35.87500000	-106.3119444	0.60	1.55
28Sandia016.1	Sandia Canyon	13,020,101	21	210	1	3	7,237.89	2,206	35.87500000	-106.3133333	0.70	1.81
28Tesuqu023.4	Big Tesuque Creek	13,020,101	22	221	1	3	7,211.05	2,198	35.73890000	-105.9056000	11.70	30.30
29Canada005.6	Canada del Potrero	13,020,102	21	211	1	3	7,474.12	2,278	36.40111111	-106.2008333	10.30	26.68
29Cannon002.4	Cannones Creek	13,020,102	21	210	1	3	7,651.29	2,332	36.80944444	-106.5672222	28.29	73.27
29Coyote005.6	Coyote Creek	13,020,102	21	211	1	3	7,136.18	2,175	36.13194444	-106.6172222	34.09	88.29
29ElRito000.7	El Rito	13,020,102	22	221	2	3	5,872.99	1,790	36.20083333	-106.2241667	133.41	345.53
29NaborC000.1	Nabor Creek	13,020,102	21	210	1	3	8,203.28	2,501	36.95916667	-106.6344444	5.50	14.25
29NaborC003.6	Nabor Creek	13,020,102	21	210	1	3	8,511.60	2,595	36.98583333	-106.6238889	3.53	9.14
29Polvad009.8	Polvadera Creek	13,020,102	21	211	2	3	6,627.62	2,020	36.11638889	-106.4391667	19.08	49.42
29RBrazo001.6	Rio Brazos	13,020,102	21	211	1	3	7,366.88	2,246	36.74694444	-106.5663889	132.00	341.88
29RBrazo015.4	Rio Brazos	13,020,102	21	210	1	3	7,990.08	2,436	36.73722222	-106.4261111	114.30	296.04
29RChama143.8	Chama River	13,020,102	21	211	1	3	7,050.87	2,149	36.66583333	-106.6597222	482.00	1,248.38
29RChama147.1	Chama River	13,020,102	21	210	1	3	7,460.99	2,274	36.78266667	-106.5662222	225.09	582.98
29RChami004.0	Rio Chamita	13,020,102	21	210	1	3	7,913.77	2,412	36.92369444	-106.5891667	35.43	91.76
29RChami008.4	Rio Chamita	13,020,102	21	210	1	3	7,789.09	2,374	36.91666667	-106.5886944	36.60	94.79
29RChami016.1	Rio Chamita	13,020,102	21	210	1	3	8,209.06	2,502	36.96361111	-106.6430556	16.97	43.95
29RChami017.8	Rio Chamita	13,020,102	21	210	1	3	8,317.34	2,535	36.98000000	-106.6594444	6.94	17.97
29REncin009.7	Rito Encino	13,020,102	21	211	1	3	7,821.90	2,384	36.14638889	-106.5222222	10.10	26.16
29RGalli045.1	Rio Gallina	13,020,102	21	211	1	3	7,920.33	2,414	36.19416667	-106.8441667	7.20	18.65
29RMedio002.7	Rio del Medio	13,020,102	21	211	1	3	8,105.94	2,471	36.54830000	-106.4469444	3.00	7.77
29RNutri027.5	Rio Nutrias	13,020,102	22	221	1	3	7,297.94	2,224	36.57916667	-106.5194444	32.00	82.88
29ROjoCa026.1	Rio Ojo Caliente	13,020,102	21	211	2	3	5,216.79	1,590	36.30500000	-106.0497222	445.80	1,154.62
29RPoleo009.5	Rio Poleo	13,020,102	21	210	1	3	7,903.93	2,409	36.13041667	-106.7248889	2.60	6.73
29RTierr026.1	Rito de Tierra Amarilla	13,020,102	21	210	1	3	8,337.76	2,542	36.64750000	-106.4225000	17.00	44.03
29RTusas000.2	Rio Tusas	13,020,102	21	211	2	3	6,251.24	1,905	36.38360000	106.0361200	448.00	1,160.32
29SextoC000.1	Sexto Creek	13,020,102	21	210	1	3	8,317.34	2,535	36.98000000	-106.6605556	8.10	20.98
30AnchoC000.1	Ancho Creek	13,020,201	22	221	2	3	5,415.28	1,651	35.77141667	-106.2198056	8.20	21.24
30Bulldo000.1	Bulldog Gulch	13,020,201	21	210	1	3	7,300.23	2,225	35.85722222	-106.3341667	0.10	0.26
30CanVal004.2	Canyon de Valle	13,020,201	21	210	1	3	7,362.56	2,244	35.85000000	-106.3330560	4.63	12.00
30Capuli012.7	Capulin Creek	13,020,201	21	211	2	3	6,996.24	2,133	35.77650000	-106.3604000	15.00	38.85
30EFkFri000.1	Rito de los Frijoles	13,020,201	21	210	1	3	7,992.52	2,436	35.83002778	-106.4130278	2.04	5.28
30Galist030.9	Galisteo Creek	13,020,201	22	221	2	3	5,660.97	1,725	35.43360000	-106.1215000	268.00	694.12
30Galist050.4	Galisteo Creek	13,020,201	22	221	2	3	6,018.53	1,834	35.39530000	-105.9434000	52.00	134.68
30Pajari000.1	Pajarito Creek	13,020,201	22	221	2	3	5,527.14	1,685	35.80222222	-106.1966667	41.00	106.19
30Pajari012.6	Pajarito Creek	13,020,201	21	211	2	3	6,932.75	2,113	35.85361100	-106.2958330	2.70	7.00
30Pajari016.1	Pajarito Creek	13,020,201	21	210	1	3	7,395.37	2,254	35.85916700	-106.3358330	1.54	4.00
30Pajari016.3	Pajarito Creek	13,020,201	21	210	1	3	7,375.69	2,248	35.85916667	-106.3366667	2.55	6.60
30Pajari018.5	Pajarito Creek	13,020,201	21	210	1	3	7,910.49	2,411	35.86944444	-106.3575000	1.25	3.24
30RFrijo000.1	Rio Frijoles	13,020,201	21	211	2	3	5,341.47	1,628	35.69475000	-106.2987500	19.80	51.28
30RFrijo003.0	Rio Frijoles	13,020,201	21	211	2	3	6,078.45	1,853	35.77530000	-106.2684000	18.00	46.62
30RFrijo018.4	Rito de los Frijoles	13,020,201	21	210	1	3	7,926.90	2,416	35.82863889	-106.4136667	3.60	9.32
30RGrand535.1	Rio Grande	13,020,201	22	220	2	3	5,223.51	1,593	35.60780000	-106.3326400	14,900.00	38,591.00
30SantaF000.1	Santa Fe River	13,020,201	22	220	2	3	5,229.91	1,594	35.59813889	-106.3389167	262.00	678.58

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30SantaF012.7	Santa Fe River	13,020,201	22	220	2	3	5,498.96	1,676	35.54691667	-106.2292222	231.00	598.29
30SantaF015.3	Santa Fe River	13,020,201	22	220	2	3	5,640.04	1,719	35.55152778	-106.2000000	220.00	569.80
30SantaF021.2	Santa Fe River	13,020,201	22	220	2	3	5,856.59	1,785	35.55777778	-106.1533333	215.50	558.15
30SantaF028.3	Santa Fe River	13,020,201	22	220	2	3	6,135.47	1,870	35.60238889	-106.1205000	93.00	240.87
30SantaF032.8	Santa Fe River	13,020,201	22	220	2	3	6,269.99	1,911	35.62944444	-106.0908333	47.00	121.73
30WFkFri000.1	Rito de los Frijoles	13,020,201	21	210	1	3	7,982.67	2,433	35.82966667	-106.4147222	1.50	3.89
31EFkJem000.1	East Fork Jemez River	13,020,202	21	210	2	3	6,779.76	2,067	35.82763889	-106.6435833	76.00	196.84
31EFkJem025.4	East Fork Jemez River	13,020,202	21	210	1	3	8,547.01	2,605	35.86983333	-106.4500000	5.80	15.02
31Jarami008.0	Jaramillo Creek	13,020,202	21	210	1	3	8,619.19	2,627	35.90436111	-106.4862222	9.20	23.83
31JemezR043.1	Jemez River	13,020,202	22	221	2	3	5,535.05	1,687	35.61722222	-106.7327778	565.62	1,464.96
31JemezR058.9	Jemez River	13,020,202	21	211	2	3	5,984.54	1,824	35.74388889	-106.7119444	184.46	477.75
31JemezR064.6	Jemez River	13,020,202	21	210	2	3	6,283.12	1,915	35.78613889	-106.6858889	174.96	453.15
31JemezR071.3	Jemez River	13,020,202	21	210	2	3	6,724.00	2,050	35.82850000	-106.6450556	167.57	434.01
31RCebol005.6	Rio Cebolla	13,020,202	21	210	1	3	7,460.99	2,274	35.85688889	-106.7593889	42.00	108.78
31RCebol015.9	Rio Cebolla	13,020,202	21	210	1	3	7,940.88	2,421	35.92416667	-106.7047222	32.00	82.88
31RGuada008.2	Rio Guadalupe	13,020,202	21	211	2	3	6,053.45	1,845	35.73111111	-106.7622222	236.50	612.54
31RIndio000.2	Rito de los Indios	13,020,202	21	210	1	3	9,803.92	2,989	35.96391667	-106.4889444	5.16	13.36
31RPenas000.3	Rito Penas Negras	13,020,202	21	210	1	3	7,983.52	2,434	35.96666667	-106.7867778	16.60	42.99
31RSanAn000.1	Rio San Antonio	13,020,202	21	210	2	3	6,740.40	2,055	35.82908333	-106.6435833	102.00	264.18
31RSanAn005.3	Rio San Antonio	13,020,202	21	210	1	3	7,625.04	2,324	35.86436111	-106.6373333	93.70	242.68
31RSanAn008.4	Rio San Antonio	13,020,202	21	210	1	3	7,773.60	2,370	35.89055556	-106.6502778	78.00	202.02
31RSanAn009.1	Rio San Antonio	13,020,202	21	210	1	3	7,790.33	2,375	35.90009000	-106.6532300	68.75	178.06
31RSanAn036.8	Rio San Antonio	13,020,202	21	210	1	3	8,625.75	2,629	35.95755556	-106.4726944	14.50	37.56
31RVacas004.2	Rio de las Vacas	13,020,202	21	210	1	4	7,880.96	2,402	36.94010000	-106.7893000	107.70	278.94
31RVacas011.1	Rio de las Vacas	13,020,202	21	210	1	3	7,806.40	2,380	35.90777778	-106.8016667	92.00	238.28
31RVacas012.2	Rio de las Vacas	13,020,202	21	210	1	3	8,255.76	2,517	35.99666667	-106.8058333	18.00	46.62
31Sulphu000.2	Sulphur Creek	13,020,202	21	210	1	3	7,740.80	2,360	35.87611111	-106.6315000	10.50	27.20
32RGrand294.5	Rio Grande	13,020,203	24	240	4	2	4,510.00	1,375	33.76806000	106.8762500	30,000.00	63,973.00
32RGrand322.1	Rio Grande	13,020,203	24	240	4	2	4,584.31	1,398	34.04712000	-106.8666600	27,116.12	70,230.75
32RGrand373.5	Rio Grande	13,020,203	22	220	4	2	4,724.13	1,440	34.41864000	-106.8005900	19,230.00	49,805.70
33RPuerc464.3	Rio Pureco	13,020,204	22	221	1	3	7,339.60	2,237	36.03583333	-106.9160000	8.45	21.89
36Bluewa012.9	Bluewater Creek	13,020,207	23	231	1	2	7,280.96	2,219	35.30374000	-108.0992600	190.00	492.10
36Bluewa013.5	Bluewater Creek	13,020,207	23	231	1	2	7,540.64	2,298	35.23563000	-108.1323000	200.00	518.00
36RSanJo015.0	Rio San Jose	13,020,207	22	220	2	2	5,253.48	1,602	34.93325000	-107.1052500	2,620.19	6,786.29
40Alamos054.9	Alamosa Creek	13,020,211	23	231	2	2	6,012.54	1,833	33.56409000	-107.5643800	403.00	1,043.77
41RGrand204.5	Rio Grande	13,030,101	24	241	4	2	4,244.73	1,294	33.14539000	-107.2086600	29,450.00	76,275.50
42RGrand087.9	Rio Grande	13,030,102	24	240	4	2	3,945.10	1,203	32.49780000	-106.9237600	31,658.35	81,995.13
45Mimbre085.7	Mimbres River	13,030,202	24	241	2	2	5,466.15	1,666	32.73090000	-107.8666000	290.00	751.10
45Mimbre094.6	Mimbres River	13,030,202	23	231	2	2	5,646.60	1,721	32.79083333	-107.9150000	262.00	678.58
45Mimbre104.8	Mimbres River	13,030,202	23	230	2	2	5,922.21	1,805	32.85722222	-107.9741667	216.00	559.44
48SaltCr021.7	Salt Creek	13,050,003	24	240	4	2	4,040.98	1,232	33.23891000	-106.4289400	773.46	2,003.26
48ThreeR033.3	Three Rivers	13,050,003	24	240	4	2	4,508.40	1,374	33.30277778	-106.0727778	94.10	243.72
48ThreeR047.6	Three Rivers	13,050,003	24	241	2	2	5,243.04	1,598	33.36361111	-105.9611111	44.90	116.29
48ThreeR057.1	Three Rivers	13,050,003	23	231	2	2	6,312.64	1,924	33.40277778	-105.8858333	6.50	16.84
49Sacram049.1	Sacramento River	13,050,004	23	230	2	2	6,845.36	2,087	32.62888889	-105.6830556	38.80	100.49
49Sacram051.6	Sacramento River	13,050,004	23	230	1	2	7,021.34	2,140	32.64694444	-105.6963889	35.70	92.46
49Sacram061.8	Sacramento River	13,050,004	23	230	1	2	7,775.97	2,370	32.71388889	-105.7541667	14.30	37.04
49Sacram066.9	Sacramento River	13,050,004	23	230	1	2	8,346.86	2,544	32.74805556	-105.7758333	8.10	20.98
49Sacram068.7	Sacramento River	13,050,004	23	230	1	2	8,504.35	2,592	32.75972222	-105.7813889	5.30	13.73
49Sacrom060.3	Sacramento River	13,050,004	23	230	1	2	7,720.19	2,353	32.70820000	-105.7439000	18.70	48.43
49ScottA000.1	Scott Able Creek	13,050,004	23	230	1	2	7,694.88	2,346	32.71000000	-105.7425000	5.20	13.47
50Beaver000.1	Beaver Creek	13,060,001	21	210	1	1	8,183.60	2,495	35.76080000	-105.4495000	6.00	15.54
50CaveCr001.9	Cave Creek	13,060,002	21	210	1	1	9,010.16	2,747	35.84941667	-105.6976389	5.76	14.92
50CaveCr003.4	Cave Creek	13,060,001	21	210	1	1	9,747.85	2,971	35.86020000	-105.7085000	1.65	4.27
50ElPorv012.6	Porvenir Creek	13,060,001	21	210	1	1	8,180.32	2,494	35.76020000	-105.4490000	13.00	33.67
50Gallin075.8	Gallinas River	13,060,001	22	221	2	1	5,925.49	1,806	35.47083333	-105.1597222	312.54	809.48
50Gallin101.8	Gallinas River	13,060,001	21	211	2	1	6,417.64	1,956	35.56500000	-105.2119444	172.00	445.48

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50Gallin102.1	Gallinas River	13,060,001	21	211	2	1	6,424.20	1,958	35.56666667	-105.2108333	172.00	445.48
50Glorie001.3	Glorieta Creek	13,060,001	21	211	2	1	6,837.60	2,084	35.53922222	-105.6800556	32.20	83.40
50Glorie001.4	Glorieta Creek	13,060,001	21	211	2	1	6,834.32	2,083	35.53802778	-105.6799444	32.20	83.40
50Glorie001.6	Glorieta Creek	13,060,001	21	211	2	1	6,837.60	2,084	35.54013889	-105.6803056	32.20	83.40
50Holing000.1	Hollinger Creek	13,060,001	21	210	1	1	8,206.56	2,502	35.76150000	-105.4484000	7.00	18.13
50HolyGh011.1	Holy Ghost Creek	13,060,001	21	210	1	1	10,502.56	3,164	35.81669444	-105.7333333	1.30	3.37
50Horset003.4	Horsethief Creek	13,060,001	21	210	1	1	7,736.60	2,358	35.87775000	-105.7091667	2.30	5.96
50JacksC008.4	Jack's Creek	13,060,001	21	210	1	1	10,567.88	3,222	35.88885000	-105.6320600	2.05	5.31
50PecosR575.0	Pecos River	13,060,001	22	221	3	1	4,604.28	1,404	35.04223000	-104.6842700	2,430.00	6,293.70
50PecosR687.4	Pecos River	13,060,001	22	221	2	1	5,573.08	1,699	35.25709000	-105.2850400	651.34	1,686.97
50PecosR739.5	Pecos River	13,060,001	21	211	2	1	6,804.79	2,074	35.53494444	-105.6688056	242.00	626.78
50PecosR782.1	Pecos River	13,060,001	21	211	1	1	7,021.34	2,140	35.59469444	-105.6818611	222.98	577.52
50PecosR784.7	Pecos River	13,060,001	21	211	1	1	7,080.21	2,159	35.61833000	-105.6846000	221.09	572.62
50PecosR787.8	Pecos River	13,060,001	21	210	1	1	7,157.11	2,182	35.64284000	-105.6834500	215.98	559.39
50PecosR802.1	Pecos River	13,060,001	21	210	1	1	7,640.51	2,329	35.74808000	-105.6758000	145.19	376.04
50PecosR828.4	Pecos River	13,060,001	21	210	1	1	10,422.06	3,177	35.93804000	-105.5567900	3.39	8.78
50RChima007.2	Rito de los Chimayosos	13,060,001	21	210	1	1	11,355.54	3,461	35.96975000	-105.6194444	0.20	0.52
50RioMor000.3	Rio Mora	13,060,001	21	210	1	1	7,925.16	2,416	35.77720000	-105.6575000	53.30	138.05
50ROscur002.4	Rito Oscuro	13,060,001	21	210	1	1	10,098.92	3,078	35.84513889	-105.7178889	2.20	5.70
50RPadre000.4	Rio del Padre	13,060,001	21	210	1	1	9,488.65	2,892	35.91191667	-105.5988889	11.61	30.07
50Tecolo042.3	Tecolote Creek	11,080,004	22	221	2	1	6,342.17	1,933	35.45972222	-105.2775000	120.50	312.10
50Tecolo065.6	Tecolote Creek	13,060,001	21	210	1	1	7,270.70	2,216	35.64555556	-105.4391667	16.80	43.51
50Tecolo066.9	Tecolote Creek	11,080,004	21	210	2	1	6,758.86	2,060	35.58166667	-105.3944444	54.10	140.12
50Tecolo072.3	Tecolote Creek	13,060,001	21	210	1	1	8,580.48	2,616	35.69252778	-105.4782222	2.50	6.48
50Winsor006.9	Winsor Creek	13,060,001	21	210	1	1	10,171.10	3,100	35.82341667	-105.7275833	1.40	3.63
50Wright001.0	Wright Canyon	13,060,001	21	210	1	1	8,708.40	2,655	35.69775000	-105.4804444	1.10	2.85
51AguaNe004.2	Agua Negra Creek	13,060,002	22	221	4	1	4,564.33	1,392	34.87811000	-104.6808500	889.79	2,304.56
52PecosR483.8	Pecos River	13,060,003	26	260	4	1	4,124.88	1,258	34.60120000	-104.3875100	4,390.00	11,370.10
56Cotton025.9	Cottonwood Creek	13,060,007	24	241	4	1	3,525.62	1,075	32.94375000	-104.5445200	132.71	343.72
56PecosR194.6	Pecos River	13,060,007	24	241	4	1	3,330.86	1,016	32.98900000	-104.3216000	14,760.00	38,228.40
56PecosR301.0	Pecos River	13,060,007	24	241	4	1	3,520.63	1,073	33.57080000	-104.3712800	11,372.77	29,455.47
57Corriz001.3	Carrizo Creek	13,060,008	23	230	2	1	6,693.24	2,040	33.32111111	-105.6669444	24.50	63.46
57Corriz001.4	Carrizo Creek	13,060,008	23	230	2	1	6,697.76	2,042	33.32027778	-105.6675000	21.83	56.54
57Grinds001.5	Grindstone Creek	13,060,008	23	230	2	1	6,847.45	2,087	33.32250000	-105.6836111	1.84	4.77
57RBonit000.8	Rio Bonito	13,060,008	23	231	2	1	5,216.79	1,590	33.38750000	-105.2761111	298.00	771.82
57RBonit025.7	Rio Bonito	13,060,008	23	230	2	1	5,866.43	1,788	33.52500000	-105.4380556	254.00	657.86
57RBonit053.1	Rio Bonito	13,060,008	23	230	2	1	6,848.64	2,088	33.44722222	-105.6600000	50.00	129.50
57RBonit061.1	Rio Bonito	13,060,008	23	230	1	1	7,429.20	2,265	33.45540000	-105.7509000	27.00	69.93
57RHondo0117.	Rio Hondo	13,020,101	24	241	3	1	4,937.91	1,505	33.34861111	-105.1522222	1,032.00	2,672.88
57RHondo130.7	Rio Hondo	13,020,101	23	231	2	1	5,183.98	1,580	33.37972222	-105.2663889	620.00	1,605.80
57RRuido019.8	Rio Ruidoso	13,060,008	23	230	2	1	5,718.78	1,743	33.40972222	-105.4450000	201.90	522.92
57RRuido030.1	Rio Ruidoso	13,060,008	23	230	2	1	6,119.07	1,865	33.35888889	-105.5472222	156.00	404.04
57RRuido031.4	Rio Ruidoso	13,060,008	23	230	2	1	6,135.47	1,870	33.35916667	-105.5469444	156.30	404.82
57RRuido042.2	Rio Ruidoso	13,060,008	23	230	2	1	6,430.76	1,960	33.32694444	-105.6247222	116.00	300.44
57RRuido044.4	Rio Ruidoso	13,060,008	23	230	2	1	6,539.03	1,993	33.32472222	-105.6469444	60.10	155.66
57RRuido045.1	Rio Ruidoso	13,060,008	23	230	2	1	6,575.12	2,004	33.32500000	-105.6536111	52.10	134.94
57RRuido048.1	Rio Ruidoso	13,060,008	23	230	2	1	6,791.67	2,070	33.33444444	-105.6805556	23.50	60.87
57RRuido052.5	Rio Ruidoso	13,060,008	23	230	1	1	7,185.39	2,190	33.33638889	-105.7255556	18.70	48.43
58RFelix114.1	Rio Felix	13,060,009	24	241	2	1	5,333.38	1,626	33.01566000	-105.1876900	258.00	668.22
59AquaCh050.2	Agua Chiquita	13,060,010	23	230	1	1	8,389.58	2,558	32.70965000	-105.6785200	5.00	12.95
59RPenas110.5	Rio Penasco	13,060,010	23	231	2	1	5,236.48	1,596	32.88111111	-105.2500000	5.10	13.21
59RPenas138.4	Rio Penasco	13,060,010	23	230	2	1	6,327.14	1,929	32.92455000	-105.3982700	177.21	458.97
59RPenas170.4	Rio Penasco	13,060,010	23	230	1	1	8,084.38	2,464	32.83083333	-105.7369444	12.00	31.08
60BlueSp003.4	Blue Spring	13,060,011	24	241	4	1	3,305.90	1,008	32.18044000	-104.2980100	1.58	4.09
60ChosaS004.5	Chosa Spring	13,060,011	24	241	4	1	3,522.63	1,074	32.09809000	-104.4019600	10.00	15.02
60DarkCa085.1	Dark Canyon Creek	13,060,011	23	231	2	1	6,174.33	1,882	32.18568000	-104.6670900	33.09	85.70
60Grapev013.0	Grapevine Creek	13,060,011	24	241	4	1	4,014.02	1,224	32.00286000	-104.5698600	2.12	5.49

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60PecosR124.7	Pecos River	13,060,011	24	241	4	1	3,196.03	974	32.54271000	-104.3631500	17,650.00	45,713.50
62PecosR002.7	Pecos River	13,070,002	24	241	4	1	2,836.48	865	32.03492000	-104.0208600	19,540.00	50,608.60
64SanJua111.0	San Juan River	14,080,101	22	221	2	4	4,649.00	1,864	37.01444444	-107.2958333	1,355.00	3,509.45
66Animas009.8	Animas River	14,080,104	22	221	2	4	5,377.56	1,639	36.75444444	-108.1411111	1,345.72	3,485.42
66Animas048.0	Animas River	14,080,104	22	221	2	4	5,795.80	1,767	36.92924000	-107.8858500	1,119.88	2,900.49
66Animas054.6	Animas River	14,080,105	22	221	2	4	5,909.08	1,801	36.98119444	-107.8718611	1,097.19	2,841.72
67LaPlat033.8	La Plata River	14,080,105	22	221	2	4	5,958.30	1,816	36.99750000	-108.1880556	331.00	857.29
75RPesca009.7	Rio Pescado	15,020,004	22	221	2	4	6,622.32	2,019	35.11530000	-108.6973000	500.00	1,502.72
75RPesca024.8	Rio Pescado	15,020,004	22	221	2	4	6,711.67	2,046	35.10744000	-108.5871600	496.62	1,286.25
77BlackC016.8	Black Canyon Creek	15,040,001	23	230	2	4	6,755.58	2,059	33.18305556	-108.0338889	48.09	124.55
77Bobcat000.8	Bobcat Spring	15,040,001	23	230	2	4	6,142.37	1,872	33.26678267	-108.1765695	3.00	7.77
77CubCre005.6	Cub Creek	15,040,001	23	230	1	4	7,890.20	2,405	33.29309774	-108.5544222	3.00	7.77
77Diamon038.1	Main Diamond Creek	15,040,001	23	230	1	4	8,642.15	2,634	33.28086111	-107.8490278	4.60	11.91
77Diamon038.2	Main Diamond Creek	15,040,001	23	230	1	4	7,782.53	2,372	33.29733000	-107.8558700	4.60	11.91
77Diamon039.3	Main Diamond Creek	15,040,001	23	230	1	4	8,235.31	2,510	33.27294444	-107.8426667	2.80	7.25
77Diamon040.1	Main Diamond Creek	15,040,001	23	230	1	4	7,972.83	2,430	33.26625000	-107.8416389	2.10	5.44
77EFkGil000.5	East Fork Gila River	15,040,001	23	230	2	4	5,554.73	1,693	33.18050000	-108.2050333	1,027.00	2,659.93
77EFkGil012.1	East Fork Gila River	15,040,001	23	230	2	4	5,767.84	1,758	33.18600753	-108.1582844	1,016.00	2,631.44
77GilaRi131.3	Gila River	15,040,001	23	230	2	4	5,544.89	1,690	33.17944444	-108.2061111	1,526.86	3,954.57
77Gilita000.1	Gilita Creek	15,040,001	23	230	1	4	7,270.70	2,216	33.41440000	-108.4903000	36.26	93.91
77Gobble001.9	Gobbler Canyon Creek	15,040,001	23	230	2	4	6,709.65	2,045	33.21888889	-108.5719444	3.00	7.77
77IronCr000.1	Iron Creek	15,040,001	23	230	1	4	7,054.15	2,150	33.38777778	-108.4758000	17.46	45.22
77MFkGil000.5	Middle Fork Red River	15,040,001	23	230	2	4	5,658.00	1,725	33.22305556	-108.2436111	458.56	1,187.67
77MFkGil054.8	Middle Fork Gila River	15,040,001	23	230	1	4	7,267.42	2,215	33.41444444	-108.6141667	129.97	336.62
77MFkGil055.0	Middle Fork Gila River	15,040,001	23	230	1	4	7,265.20	2,215	33.41440000	-108.6141667	129.97	336.62
77Mogoll029.9	Mogollon Creek	15,040,001	23	230	2	4	6,693.24	2,040	33.22611111	-108.6155833	1.22	3.16
77Mogoll037.2	Mogollon Creek	15,040,001	23	230	2	4	6,552.16	1,997	33.21166667	-108.5587778	19.84	51.39
77Taylor004.2	Taylor Creek	15,040,001	23	230	2	4	6,394.67	1,949	33.35027778	-108.0797222	97.90	253.56
77Turkey001.8	Turkey Creek	15,040,001	23	230	3	4	4,887.20	1,490	33.08916667	-108.4861111	54.80	141.93
77WFkGil010.0	West Fork Gila River	15,040,001	23	230	2	4	5,707.20	1,740	33.22900000	-108.2660000	400.00	283.09
78GilaRi003.5	Gila River	15,040,002	24	240	4	4	3,655.46	1,114	32.68940000	-109.0145000	4,000.00	7,226.10
79Clanto000.1	Clanton Draw	15,040,003	24	241	2	2	5,085.55	1,550	31.53416667	-108.8750000	14.93	38.67
80Center000.1	Centerfire Creek	15,040,004	23	230	2	4	6,670.27	2,033	33.83055556	-108.8447222	135.68	351.41
80SanFra049.1	San Francisco River	15,040,004	23	230	3	4	4,878.85	1,487	33.36805556	-108.9097222	1,543.00	3,996.37
80SanFra159.3	San Francisco River	15,040,004	23	230	1	4	7,412.80	2,260	33.82964000	-109.0231100	60.00	155.40
80TroutC002.1	Trout Creek	15,040,004	23	230	1	4	7,290.95	2,223	33.84715000	-108.9526900	32.00	82.88
80Tularo001.3	Tularosa River	13,050,003	23	230	2	4	5,685.97	1,733	33.67777778	-108.7694444	651.60	1,687.64
80Tularo050.8	Tularosa River	13,050,003	23	230	2	4	6,755.58	2,059	33.89138889	-108.5150000	94.00	243.46
80Whitew000.5	Whitewater Creek	15,040,004	23	231	3	4	4,704.95	1,434	33.31583333	-108.8825000	51.90	134.42
80WhiteW008.8	Whitewater Creek	15,040,004	23	230	2	4	5,179.12	1,579	33.37290000	-108.8414000	38.00	92.98

Appendix B: Site Score Components - Key to Criteria Worksheet

Rating (1-5) Rate overall watershed and stream condition above the site: 1 2 3 4 5

1 - pristine
2 – minimal impact
3 – slight impact
4 – moderately impacted
5 – severely impacted

Ave. Flow Average Stream Flow (excluding spring runoff and monsoon season)
___ <1cfs, ____1 to 10cfs, ____ >10cfs, ____>100cfs

Flow Status The stream has flow except during drought years - **Perennial**
Peren. or Inter. The stream has no flow in some areas during most years - **Intermittent**

0 flow by diversion The lack of flow due to diversion of water? **T or F**

Channalized Is the stream channelized at the sites _____, any point upstream of the site _____,

<15% Grazing Less then 15% of the watershed above the site have high intensity grazing (i.e., riparian access, high density, frequent grazing, over grazing) **T or F**

Column 1 **New Site Name** - number for 8 HUC, stream name, and river kilometer
Column 2 **Site Description**
Column 3 **BPJ Score -** described above
Column 4 **0 flow due to diversion -** described above
Column 5 **Channalized -** T or F (described above)
Column 6 **<15 grazing -** described above
Column 7 Is there impact to the stream from the above activity? N or Y
Column 8 **<5% urban -** in the watershed above the site
Column 9 Is there impact to the stream from the above activity? N or Y
Column 10 **no dams**
Column 11 Is there impact to the stream from the dam? 0-no, 0.5-minimal, 1-yes
Column 12 **on 303d list-** list of impaired waters, not meeting water quality standards
Column 13 **no NPDES** permits upstream of the site
Column 14 **RBP Habitat Score** as a percent **(if no score estimated at >75, 75-50, or <50)**
Column 15 **Comments -** any brief info on site and/or watershed

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Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
04Canadi429.9	Canadian River at Coal Canyon	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.75-0.50	1	1.0	4.000
04Vermej002.9	Vermejo River above I-25	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Vermej045.4	Vermejo River at Dawson	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	5.5	9.500
04Vermej073.7	Vermejo River below York Canyon	3.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	F	1	0.65	1	3.0	6.667
05Cieneg006.3	Cieneguilla Creek at Gage above Eagle Nest Lake	3.67	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.65	1	5.5	9.167
05Cieneg016.5	Cieneguilla Creek at County Road B-25	3.33	F	0	T	1	T	0	N	0	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	yes	1	F	1	0.65	1	5.5	8.833
05Cieneg018.5	Cieneguilla Creek below Angel Fire lagoons	3.33	F	0	T	1	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	F	1	0.65	1	5.0	8.333
05Cieneg019.3	Cieneguilla Creek at Angel Fire Road	3.33	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.65	1	3.5	6.833
05Cieneg021.9	Cieneguilla Creek below Crooked Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.65	1	2.5	5.500
05Cimmar018.4	Cimarron River above Boy's Ranch (5 mi below Raya	3.50	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	0	yes	1	T	0	<0.50	2	5.5	9.000
05Cimmar044.5	Cimarron River at Cimarron (HWY 21)	4.33	T	1	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	yes	1	F	1	0.65	1	5.5	9.833
05Cimmar050.8	Cimmaron River at USGS gage by Philmont	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	yes	1	F	1	0.87	0	2.0	5.000
05Cimmar072.7	Cimarron River above Clear Creek, in upper quality se	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	no	0	T	0	>0.75	0	0.5	2.500
05Cimmar077.2	Cimmaron River at Tolby Creek	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	F	0.5	no	0	F	1	0.88	0	2.5	5.000
05Mccrys007.0	McCrystal Creek above McCrystal Place	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
05MonteV000.5	Monte Verde above Cieneguilla Creek and lake	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
05Moreno003.7	Moreno Creek above U.S. HWY 64	3.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.60	1	5.0	8.000
05MPonil000.1	Middle Ponil Creek above South Ponil Creek	2.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.84	0	1.5	4.167
05MPonil027.2	Middle Ponil Creek above FR 1950	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.89	0	1.0	3.333
05NPonil000.1	North Ponil Creek above Ponil Creek	2.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.77	0	2.0	4.500
05NPonil027.5	North Ponil Creek at FR 1950	2.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.71	1	3.0	5.000
05PonilC023.8	Ponil Creek at USGS Gage	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.87	0	2.5	5.500
05Rayado033.8	Rayado Creek near USGS Gage on Philmont	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.92	0	0.0	2.000
05Sixmil001.4	Sixmile Creek at USGS Gage	2.67	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.72	1	3.0	5.667
05SPonil004.0	South Ponil Creek 2.5 miles above Ponil Creek	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
05SPonil007.2	South Ponil Creek 4.5 miles above Ponil Creek	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
06Canadi232.6	Canadian River at Sanchez	3.67	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	F	1	0.75-0.50	1	4.0	7.667
06Canadi274.8	Canadian River at State HWY 120 bridge	3.33	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	F	1	0.75-0.50	1	4.0	7.333
06Canadi322.5	Canadian River at Mills Canyon	3.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	F	1	0.75-0.50	1	4.0	7.000
06Canadi348.3	Canadian River 0.25 mile below Cimarron River	4.00	T	1	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	F	1	0.75-0.50	1	5.0	9.000
07Coyote011.8	Coyote Creek at Rainsville	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.75-0.50	1	5.0	9.000
07Coyote040.0	Coyote Creek at State Park	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	>0.75	0	2.5	5.500
07Coyote047.9	Coyote Creek below Black Lake	2.00	F	0	F	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	2.0	4.000
07Manuel020.9	Manuelitas Creek above Maestas Creek	2.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.5	2.833
07MoraRi078.7	Mora River at Valmora	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	T	0	>0.75	0	3.5	6.500
07MoraRi146.6	Mora River below Mora WWTP lagoons	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.47	2	5.5	8.500
07MoraRi147.1	Mora River above Mora WWTP lagoons	3.33	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	T	0	0.61	1	4.5	7.833
07MoraRi157.9	Mora River at Cleveland Church	3.67	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.43	2	7.5	11.167
07MoraRi170.9	Mora River at Chacon 0.6 miles above USGS Gage	3.33	T	1	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.75-0.50	1	5.5	8.833
07MoraRi179.1	Mora River at Chacon below Luna and Lujan Creeks	3.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.45	2	5.5	8.500
07Sapell000.1	Sapello River above Mora River (HWY 85)	3.33	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	T	0	0.75-0.50	1	5.5	8.833
07Sapell044.4	Sapello River below Manuelitas Creek (HWY 518)	3.33	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	0	yes	1	T	0	0.75-0.50	1	5.5	8.833
07Sapell057.4	Sapello Creek at Sander's Cabin	2.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	0	no	0	T	0	>0.75	0	1.5	3.500
07Sapell069.8	Sapello River at Mosimann Ranch	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	no	0	T	0	>0.75	0	0.0	2.333
08Concha039.1	Conchas River above Varidaro	3.33	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	<0.50	2	4.0	7.333
08Tremen026.2	Trementina Creek O.25 mi downstream of Arroyo Rer	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	<0.50	2	2.5	5.500
09Canadi039.0	Canadian River 9 miles east of Logan	4.00	T	1	F	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	Y	1	0.5	F	1	no	0	F	1	<0.50	2	6.5	10.500
09Canadi062.4	Canadian River below Ute Reservoir at NM HWY 54	4.33	T	1	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	1	no	0	F	1	<0.50	2	7.5	11.833
09Canadi184.1	Canadian River below Conchas Dam	3.50	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	1	no	0	F	1	<0.50	2	7.5	11.000
10PaloBl005.1	Palo Blanco 3 miles above Ute Creek, 9 mi above hw	2.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.75-0.50	1	2.0	4.000
10UteCre145.0	Ute Creek (downstream from Hwy 120)	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.75-0.50	1	2.0	5.000
16Seneca048.5	Seneca Creek 7 miles above Clayton Lake (AKA Cier	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.75-0.50	1	1.0	4.000
27RPinos000.8	Rio de los Pinos 0.5 mi above CO @ DG&F area	2.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.74	1	3.0	5.500
27RPinos011.3	Rio de los Pinos at FS Boundary	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.72	1	2.0	4.000
27RSanAn025.3	Rio San Antonio at FR 87	3.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.51	1	4.0	7.000
28BigTes013.2	Big Tesuque Creek above Aspen Vista FR	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.000
28Cabres005.4	Cabresto Creek at USGS Gage	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.71	1	2.5	5.500
28Casias000.6	Casias Creek above Costilla reservoir	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.84	0	0.0	2.000
28Columb000.1	Columbine Creek above Red River	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.60	1	2.5	5.500
28Comanc000.1	Comanche Creek above Costilla Creek	2.67	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.84	0	2.5	5.167
28Comanc007.7	Comanche Creek @ upper exclosure	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.67	1	3.0	6.000
28DPCany012.4	DP Canyon near airport	4.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	F	1	0.75-0.50	1	5.0	9.500
28Embudo000.8	Embudo Creek above Rio Grande at Gage Hwy68)	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.23	2	7.5	11.500
28Embudo020.5	Embudo Creek below Rio del Pueblo and Rio Santa E	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.82	0	3.0	6.000
28LosAla010.5	Los Alamos Canyon below TA 53	3.00	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	yes	1	F	1	0.75-0.50	1	5.0	8.000
28LosAla021.0	Los Alamos Canyon below Reservoir spillway	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	yes	1	T	0	0.75-0.50	1	4.0	7.500
28LosAla021.5	Los Alamos Canyon above Reservoir	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
28NFkRHo000.5	North Fork Rio Hondo adjacent to Taos Ski Valley Pa	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.90	0	0.5	2.500
28NFkTes002.1	North Fork Tesuque Creek at Santa Fe Ski Basin Roa	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.97	0	0.5	2.000
28RChupa015.2	Rio Chupadero above summer homes	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.67	1	2.0	4.000
28RCosti025.6	Rio Costilla at USGS Gage above Costilla	3.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	0	no	0	T	0	0.81	0	3.5	6.500
28RCosti046.7	Rio Costillo above Latir Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	no	0	T	0	0.84	0	0.5	3.500
28RCosti048.6	Rio Costilla below Comanche Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	no	0	T	0	0.84	0	0.5	3.500
28RCosti048.9	Rio Costilla above Comanche Creek	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	yes	1	T	0	>0.75	0	1.5	3.500
28RCosti052.2	Rio Costilla at Valle Vidal Boundary	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	yes	1	T	0	0.84	0	2.0	5.000
28RCosti055.5	Rio Costilla below Costilla Reservoir	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	yes	1	T	0	0.75-0.50	1	3.0	6.000
28RCosti057.9	Rio Costilla above Costilla Reservoir	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
28RedRiv000.9	Red River above Rio Grande	2.33	F	0	F	0	F	1	N	0	0.5	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.90	0	3.0	5.333
28RedRiv005.3	Red River below Red River fish hatchery	3.33	F	0	F	0	F	1	Y	1	1	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.90	0	3.5	6.833
28RedRiv006.4	Red River above Hatchery	3.67	F	0	F	0	F	1	Y	1	1	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.89	0	3.5	7.167
28RedRiv009.8	Red River at HWY 3 bridge in Questa	4.67	F	0	T	1	F	1	Y	1	1	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.73	1	5.5	10.167
28RedRiv014.5	Red River above Questa at USGS Gage	4.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.73	1	3.5	8.167
28RedRiv017.1	Red River at Goat Hill Cpgd.	4.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.79	0	2.5	7.167
28RedRiv019.6	Red River below Molycorp, above Columbine	4.67	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.77	0	3.5	8.167
28RedRiv024.1	Red River above Molycorp (USGS Staff Gauge)	3.67	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.79	0	3.5	7.167
28RedRiv025.4	Red River above Hanson Creek (below Fawn Lakes (	3.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.77	0	2.5	6.167
28RedRiv027.8	Red River above Molycorp, below WWTP	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.77	0	2.5	5.833

Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
28RedRiv028.5	Red River above Red River WWTP	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.77	0	1.5	4.833
28RedRiv031.1	Red River below Bitter Creek	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.75	1	3.5	6.500
28RedRiv034.9	Red River at Zwergel Dam	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.79	0	1.5	3.500
28RFerna008.2	Rio Fernando de Taos at gage, @ Nogal	3.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.60	1	3.5	7.000
28RFerna032.5	Rio Fernando de Taos above upper US Hwy 64	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.0	4.333
28RFrijo004.8	Rio Frijoles at Wilderness Boundary	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
28RGRanc011.1	Rio Grande del Rancho @ gage near Talpa	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.77	0	1.0	3.500
28RGRanc015.6	Rio Grande del Rancho above HWY 518 (@ Ft. Burgy	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.0	4.333
28RGrand541.2	Rio Grande at Buckman Crossing	3.33	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0	yes	1	F	1	0.72	1	5.0	8.333
28RGrand572.8	Rio Grande at Highway 74 (near San Juan Pueblo)	3.50	F	0	T	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0	yes	1	F	1	0.70	1	6.0	9.500
28RGrand595.7	Rio Grande below Embudo River	2.67	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0	yes	1	F	1	0.85	0	4.0	6.667
28RGrand624.3	Rio Grande at gage at Embudo Station	2.67	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0	yes	1	F	1	0.85	0	4.0	6.667
28RGrand647.9	Rio Grande below Rio Pueblo de Taos at USGS gage	2.33	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	F	0	yes	1	F	1	0.82	0	3.5	5.833
28RGrand650.8	Rio Grande below Rio Pueblo de Taos	2.33	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	F	0	yes	1	F	1	0.82	0	3.5	5.833
28RGrand663.4	Rio Grande above Red River	2.67	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	F	0	yes	1	F	1	0.90	0	3.5	6.167
28RGrand731.6	Rio Grande at Lobatos near CO Border	3.33	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0.5	yes	1	F	1	0.76	0	4.5	7.833
28RGuaje021.7	Rio Guaje above reservoir, Santa Fe NF	4.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.0	6.500
28RHondo000.1	Rio Hondo above Rio Grande	3.67	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.87	0	3.5	7.167
28RHondo003.9	Rio Hondo at HWY 3 Bridge	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.75	1	5.5	8.500
28RHondo012.1	Rio Hondo at Valdez bridge	3.00	F	0	F	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	F	1	0.80	0	3.5	6.500
28RHondo014.8	Rio Hondo 1.5 miles above Valdez at USGS Gage	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.88	0	1.5	3.500
28RHondo022.4	Rio Hondo 2.4 miles below WWTP	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.85	0	1.5	4.167
28RHondo026.7	Rio Hondo 300 yards below WWTP	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	F	1	0.80	0	2.0	5.333
28RHondo026.9	Rio Hondo 50 yards above WWTP	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.85	0	1.0	3.667
28RiOlla000.8	Rito de la Olla at HWY 518 (@ Ft. Burgwin)	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.84	0	0.0	2.667
28RLucer013.0	Rio Lucero at USGS Gage on Taos Pueblo	1.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.95	0	0.5	2.167
28RMedio007.2	Rio en Medio at USFS boundary	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.85	0	0.5	2.833
28RMedio013.3	Rio en Medio at Aspen Ranch	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.87	0	0.5	2.500
28RMedio016.9	Rio en Medio 200 m below ski area parking lot	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.75	1	2.0	5.000
28RMedio017.5	Rio en Medio above ski area	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.80	0	1.0	3.000
28RNambe001.1	Rio Nambe 1.5km below Nambe Reservoir	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	0.5	F	1	no	0	T	0	0.70	1	2.5	6.500
28RNambe004.0	Rio Nambe (Pojoque Creek) 200m below Nambe Res	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	1	no	0	T	0	0.70	1	2.5	6.500
28RNambe005.1	Rio Nambe above Nambe Reservoir	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.93	0	0.0	2.333
28RPuebl000.3	Rio Pueblo at HWY 75 above Rio Santa Barbara	3.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.80	0	4.5	7.500
28RPuebl012.4	Rio Pueblo at gage above Hwy 518/75	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.80	0	1.5	4.000
28RPuebl019.0	Rio Pueblo above Sipapu and below Flechado CG	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.80	0	1.5	3.833
28RPuebT000.1	Rio Pueblo de Taos 400m above Rio Grande	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.91	0	5.0	8.000
28RPuebT003.5	Rio Pueblo de Taos 4km above Rio Grande	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.75	1	6.0	9.000
28RPuebT008.2	Rio Pueblo de Taos below Taos WWTP near Gage	4.33	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.60	1	6.0	10.333
28RPuebT013.2	Rio Pueblo de Taos above Rio Grande del Rancho, n	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	T	0	0.70	1	6.0	10.000
28RPuebT015.8	Rio Pueblo de Taos above Rio Fernando, near Lower	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	T	0	0.65	1	6.0	10.000
28RQuema003.1	Rio Quemado near Chimayo	3.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	T	0	0.75	1	3.5	6.500
28RSanBa000.1	Rio Santa Barbara above Rio Pueblo	3.33	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.83	0	5.5	8.833
28RSanBa017.9	Rio Santa Barbara at upper Santa Barbara campgrou	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.78	0	0.0	2.333
28SanCla009.7	Santa Clara Creek at Singer's Ranch above Irrigation	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0		0.5	T	0	0.74	1	3.5	6.500
28SanCla016.1	Santa Clara Creek near Pue Well	4.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0		0.5	T	0	0.64	1	3.5	7.500
28SanCla024.1	Santa Clara Creek near Campground 11	3.00	F	0	F	0	T	0	N	0	0	F	1	N	0	0.5	F	1	N	0	0.5	T	0		0.5	T	0	0.78	0	1.5	4.500
28SanCla033.0	Santa Clara Creek at Turkey Creek, 0.5 mile below Vi	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	N	0	0.5	T	0		0.5	T	0	0.90	0	1.0	3.000
28SanCru019.1	Santa Cruz River 100m below Rio Medio and Rio Frij	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.90	0	1.0	3.000
28Sandia011.2	Sandia Canyon below TA 53	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.50	1	2.5	6.500
28Sandia012.1	Sandia Canyon 7.53 miles above Grande, below Rad	4.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.50	1	2.5	7.000
28Sandia015.8	Sandia Canyon 10.1 miles above Rio Grande (in wetl	4.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.50	1	2.5	7.000
28Sandia016.1	Sandia Canyon 10.3 miles above Rio Grande (in wetl	4.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	F	1	0.50	1	2.5	7.000
28SFkTes032.3	South Fork Tesuque Creek at Ski Basin Road	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.90	0	0.5	2.500
28Tesuqu023.4	Tesuque Creek at gage 08302500 near Santa Fe	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	2.5	5.500
29Abiqui001.8	Abiquiu Creek at U.S. HWY 84 bridge	3.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.0	6.333
29Abiqui002.3	Abiquiu Creek 0.5 mile above U.S. HWY 84	3.33	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.5	6.833
29Canada005.6	Canada del Potrero at Rd 44 near El Rito	3.00		0.5		0.5	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.75	1	2.5	5.500
29Cannon002.4	Cannones Creek above HWY 84 (near Chama)	2.50	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.75	1	4.0	6.500
29Chihua001.3	Chihuahuenos Creek above Canones	2.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	2.0	4.000
29Coyote005.6	Coyote Creek at Forest Road 316	2.50	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	T	0	0.68	1	3.0	5.500
29Coyote017.5	Coyote Creek at 0.5 mi above FR 100 (near Coyote)	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
29ElRito000.7	El Rito Creek 0.5 mile above Rio Chama	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	5.0	9.000
29ElRito035.9	El Rito (lower) on Oso Ranch	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.5	2.500
29ElRito050.2	El Rito (upper) near Canyon de Chacon	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.000
29LitTus003.4	Little Tusas at FR 133	2.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.75-0.50	1	3.0	5.000
29NaborC000.1	Nabor Creek 5 yards upstream of Rio Chamita	2.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.72	1	2.0	4.000
29NaborC003.6	Nabor Creek 2.0 miles above Rio Chamita	1.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	1.0	2.500
29Polvad009.0	Polvadera Creek below FR 422	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.667
29Polvad009.8	Polvadera Creek at Forest Road 422	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.667
29RBrazo001.6	Rio Brazos above US HWY 84	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.50	1	6.5	10.500
29RBrazo015.4	Rio Brazos above Corkins Lodge	1.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.97	0	0.0	1.333
29RCanji039.4	Rio Canjilon at diversion above NF boundary	3.00	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	no	0	T	0	0.70	1	3.0	6.000
29RChama004.5	Rio Chama at Hwy 285 at Gage (on San Juan Res.?)	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	yes	1	F	1	0.70	1	8.0	12.000
29RChama019.3	Rio Chama at NM HWY 233 (4 miles below El Rito)	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	yes	1	F	1	0.70	1	7.0	11.000
29RChama029.4	Rio Chama at NM HWY 554 (to El Rito)	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.70	1	7.5	11.500
29RChama050.4	Rio Chama below Abiquiu Dam at USGS Gage	4.33	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.70	1	7.5	11.833
29RChama079.5	Rio Chama near gage above Abiquiu Reservoir	3.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.85	0	2.5	5.833
29RChama089.5	Rio Chama below Rio Gallina	3.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.85	0	2.5	5.833
29RChama090.1	Rio Chama below Rio Cebolla	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	1	no	0	F	1	>0.75	0	3.0	6.000
29RChama118.1	Rio Chama below Rio Nutrias	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	F	1	no	0	F	1	>0.75	0	4.0	7.000
29RChama122.6	Rio Chama below El Vado Reservoir	3.67	T	1	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	Y	1	0.5	F	1	no	0	F	1	0.70	1	6.0	9.667
29RChama143.8	Rio Chama 2mi below La Puente Gage	2.50	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.80	0	3.5	6.000
29RChama147.1	Rio Chama 4 km below Chama WWTP (G&F Area)	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.85	0	3.5	6.500
29RChama157.0	Rio Chama below Rio Chamita (@Unser's)	2.67	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.83	0	3.5	6.167
29RChama161.1	Rio Chama at U.S. HWY 84 below Chama	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	T	0	0.76	0	3.0	6.000
29RChama165.4	Rio Chama at NM HWY 17 bridge above Chama	2.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.85	0	1.0	3.000

Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
29RChama166.4	Rio Chama 0.5 miles above HWY 17 (water intake)	2.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.86	0	1.0	3.000
29RChami002.6	Rio Chamita 25m below WWTP outfall	4.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.76	0	4.5	8.500
29RChami002.8	Rio Chamita 10m above Chama WWTP outfall	3.33	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	4.5	7.833
29RChami004.0	Rio Chamita above WWTP at State HWY 29	3.67	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.75	1	4.5	8.167
29RChami008.4	Rio Chamita above Rd 29 bridge on Seargent WLA	3.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	4.0	7.000
29RChami016.1	Rio Chamita 1 mile above Nabor Creek	2.50	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.74	1	4.0	6.500
29RChami017.8	Rio Chamita above Sexto Creek	2.50	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.76	0	3.0	5.500
29REncin009.7	Rito Encino at FR 100z	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.56	1	1.5	4.500
29RGalli005.5	Rio Gallina above Rio Chama and Skull Ranch	3.67	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	<0.50	2	5.5	9.167
29RGalli045.1	Rio Gallina at FR 76 near Gallina	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.84	0	0.5	2.500
29RGalli048.3	Rio Gallina above San Pedro Parks wilderness bound	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.5	2.500
29RRioOso004.5	Rio del Oso, outside exclosure (downstream)	3.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	5.167
29RRioOso004.7	Rio del Oso 1.8 mi above SFNF boundary	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	4.500
29RRioOso008.8	Rio del Oso, within exclosure	3.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	5.167
29RMedio002.7	Rio del Medio above FR 125 near Cebolla	2.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.75	1	3.0	5.000
29RNutri027.5	Rio Nutrias below HWY 84	4.50	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.60	1	4.5	9.000
29ROjoCa026.1	Rio Ojo Caliente at NM HWY 414	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.65	1	4.5	7.500
29RPoleo009.5	Rio Poleo at FR 103	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	2.5	4.500
29RPuerc037.5	Rio Puerco de Chama at FR 103	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.85	0	1.0	3.000
29RResum002.4	Rito Resumedero above SPP Wilderness boundary	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.500
29RTierr026.1	Rito de Tierra Amarilla at HWY 64	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.90	0	0.0	2.000
29RTusas000.2	Rio Tusas above Madera	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	5.0	9.000
29RTusas028.5	Rio Tusas above Las Tablas	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
29RValle037.8	Rio Vallecito above NF boundary at Vallecitos Ranch	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	yes	1	T	0	>0.75	0	1.5	3.500
29SextoC000.1	Sexto Creek above Rio Chamita	2.50	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	2.5	5.000
30AnchoC000.1	Ancho Creek above Rio Grande	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.42	2	2.5	3.500
30Bulldo000.1	Bulldog Gulch 1.3 miles below HWY 501 (Pajarito trib	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.65	1	1.5	4.500
30CanVal003.7	Canyon de Valle 2.6 miles above Water Canyon	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.68	1	2.0	5.000
30CanVal003.9	Canyon de Valle in pool 2.7 miles above Water Canyo	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.65	1	2.0	6.000
30CanVal004.0	Canyon de Valle 2.8 miles above Water Canyon at Bu	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.79	0	1.0	5.000
30CanVal004.2	Canyon de Valle 2.9 miles above Water Canyon	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.72	1	2.0	6.000
30Capuli012.7	Capulin Creek (CG) Band. Nat. Mon.	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.75	1	1.0	3.000
30EFkFri000.1	Rito de los Frijoles, East Fork	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.0	3.000
30Galist030.9	Galisteo Creek at Hwy 14 near Cerrillos	4.33	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.35	2	6.5	10.833
30Galist050.4	Galisteo Creek in Galisteo	3.67	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.50	1	4.0	7.667
30Pajari000.1	Pajarito Creek above Rio Grande	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.69	1	2.0	4.000
30Pajari012.6	Pajarito Canyon below Twomile Canyon	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	no	0	T	0	0.56	1	2.0	4.000
30Pajari015.8	Pajarito Creek below Bulldog Gulch	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.60	1	1.5	3.500
30Pajari016.1	Pajarito Canyon below Starmer Gulch	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.75	1	1.5	3.500
30Pajari016.3	Pararito Creek above Bulldog Gulch	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.84	0	0.5	2.500
30Pajari018.5	Pajarito Creek 0.3 miles above HWY 501	5.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.61	1	1.0	6.000
30RFrijo000.1	Rito de los Frijoles above Rio Grande	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.0	4.000
30RFrijo003.0	Rito de los Frijoles at Bandelier Visitor Center	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.65	1	2.5	5.167
30RFrijo018.4	Rito de los Frijoles below West and East Fork	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.65	1	2.0	4.000
30RGrand535.1	Rio Grande below Cochiti Reservoir	3.50	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	F	1	yes	1	F	1	0.65	1	7.0	10.500
30SantaF000.1	Santa Fe River 100m above Rio Grande	3.50	F	0	T	1	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	F	0.5	no	0	F	1	0.63	1	4.5	8.000
30SantaF003.7	Santa Fe River above Cochiti Pueblo Hatchery	3.50	F	0	T	1	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	F	0.5	yes	1	F	1	0.67	1	5.5	9.000
30SantaF012.7	Santa Fe River below mine at USGS Gage	4.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	F	0.5	yes	1	F	1	0.75	1	5.5	9.500
30SantaF015.3	Santa Fe River 0.5 mi upstream Lonestar Mine	4.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	F	0.5	yes	1	F	1	0.70	1	5.5	9.500
30SantaF021.2	Santa Fe River below La Cienega	4.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	F	0.5	yes	1	F	1	0.70	1	5.5	9.500
30SantaF028.3	Santa Fe River 2 mi. below WWTP (@ CRd 56)	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	F	1	Y	1	1	F	0.5	yes	1	F	1	0.60	1	6.0	10.000
30SantaF032.8	Santa Fe River below WWTP	4.33	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	F	1	Y	1	1	F	1	no	0	F	1	0.50	1	5.5	9.833
30SantaF057.4	Santa Fe River above McClure reservoirs	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	>0.75	0	0.5	2.000
30Starme000.3	Starmer Gulch 0.1 mile above Pajarito Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	N	0	0.5	T	0	no	0	T	0	0.70	1	1.5	4.500
30WFkFri000.1	Rito de los Frijoles, West Fork	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
31EFkJem000.1	East Fork Jemez River @ Battleship Rock	2.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.94	0	1.5	4.167
31EFkJem010.1	East Fork Jemez River 2 mi above HWY 4 (below Las	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.667
31EFkJem015.0	East Fork Jemez River below HWY 4 @ Las Conchas	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	>0.75	0	1.5	4.500
31EFkJem025.4	East Fork Jemez River near Cerro en Medio	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.500
31Jarami008.0	Jaramillo Creek above Cerro Pinyon @ Rd B	2.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.70	1	2.0	4.500
31JemezR043.1	Jemez River at Owl Springs Road on Jemez Pueblo	3.67	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.70	1	5.0	8.667
31JemezR046.9	Jemez River near Canon, below Jemez Springs Scho	3.50	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	F	1	0.70	1	3.0	6.500
31JemezR049.2	Jemez River above Rio Guadalupe	3.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	F	1	0.79	0	3.0	6.667
31JemezR058.9	Jemez River below Jemez Springs WWTP	3.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	F	1	0.70	1	4.0	7.667
31JemezR064.6	Jemez River above USFS Ranger Station	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	2.5	5.833
31JemezR071.3	Jemez River below East Fork Jemez River	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.94	0	1.5	4.500
31RCebol000.1	Rio Cebolla above Rio de las Vacas	2.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0.5	yes	1	T	0	0.92	0	2.5	5.167
31RCebol005.6	Rio Cebolla at FR 376 crossing near Lake Fork Canyo	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.90	0	1.5	4.167
31RCebol015.9	Rio Cebolla below Hatchery	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	2.5	5.167
31RGuada000.1	Rio Guadalupe above Jemez River	3.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	F	0	yes	1	T	0	0.65	1	3.0	6.333
31RGuada008.2	Rio Guadalupe above tunnels	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	yes	1	T	0	0.90	0	1.5	3.833
31RIndio000.2	Rito de los Indios above San Antonio	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.500
31RPenas000.3	Rito Penas Negras above Rd 126	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.69	1	2.5	5.500
31RSanAn000.1	Rio San Antonio at Battleship Rock	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.86	0	1.5	4.500
31RSanAn005.3	Rio San Antonio Creek above La Cueva Cpgd.	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.84	0	1.5	4.167
31RSanAn008.4	Rio San Antonio at San Antonio campground (above	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.84	0	1.5	3.833
31RSanAn009.1	Rio San Antonio above San Antonio Campground	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.83	0	1.0	3.500
31RSanAn036.8	Rio San Antonio Creek 1.3 miles above Rito de los In	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.71	1	2.0	4.000
31RVacas000.5	Rio de las Vacas above Rio Cebolla	2.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.90	0	1.5	3.833
31RVacas004.2	Rio de Las Vacas below private land at Telephone Ca	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.80	0	1.5	3.500
31RVacas011.1	Rio de las Vacas above Girl Scout Camp	2.67	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	2.5	5.167
31RVacas012.2	Rio de las Vacas at NM HWY 126	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.84	0	0.0	2.667
31RVacas012.6	Rio de las Vacas 0.25 miles above Rd 126	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.84	0	0.0	2.667
31RVacas017.4	Rio de Las Vacas above FR 70, barrier and SPP wilde	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.85	0	0.0	2.000
31Sulphu000.2	Sulphur Creek above Redondo Creek	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.65	1	2.5	5.833
32RGrand294.5	Rio Grande at Bosque del Apache	3.50	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	F	1	0.70	1	5.0	8.500
32RGrand322.1	Rio Grande at Socorro	4.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	yes	1	F	1	0.70	1	5.5	9.500

Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
32RGrand373.5	Rio Grande at HWY 60 at Bernardo	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	F	0.5	yes	1	F	1	0.70	1	7.5	11.500
33RPuerc464.3	Rio Puerco at Vallicitos	3.50	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.75-0.50	1	3.0	6.500
36Bluewa012.9	Bluewater Creek below reservoir	3.50	F	0	F	0	T	0	N	0	0	F	1	N	0	0.5	T	0	N	0	0	F	1	yes	1	T	0	0.75	1	3.5	7.000
36Bluewa013.5	Bluewater Creek above reservoir	3.00	F	0	F	0	T	0	N	0	0	F	1	N	0	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	2.5	5.500
36RSanJo015.0	Rio San Jose 8 miles above Rio Puerco (at Dripping V	8.50		0.5		0.5	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.5	11.000
40Alamos054.9	Alamosa Creek 14.4 road miles upstream of Monticell	8.00		0.5		0.5	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.50	1	2.5	10.500
41RGrand199.1	Rio Grande at T or C	4.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	0.5	F	1	yes	1	F	1	0.70	1	7.5	11.500
41RGrand204.5	Rio Grande below E. Butte Reservoir	3.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	F	1	Y	1	1	F	1	yes	1	F	1	0.70	1	8.0	11.000
42RGrand087.9	Rio Grande at Leasburg Dam	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	F	1	Y	1	1	F	1	yes	1	F	1	0.65	1	7.5	11.500
45Mimbre085.7	Mimbres River above Gallinas Creek	3.50	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	4.5	8.000
45Mimbre094.6	Mimbres River at NM HWY 90 in San Lorenzo	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.64	1	6.5	10.500
45Mimbre104.8	Mimbres River at USGS Gage at Mimbres	4.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.61	1	4.5	8.500
45Mimbre127.4	Mimbres River at Cooney Campground	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.0	4.667
48RTular029.6	Rio Tularosa at HYW 70 near Alamogordo	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.70	1	5.0	8.000
48SaltCr021.7	Salt Creek on White Sands Missle Range	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.70	1	1.5	4.500
48ThreeR033.3	Three Rivers at U.S. HWY 54	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	3.0	6.000
48ThreeR047.6	Three Rivers at County Road A-30	4.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	4.0	8.000
48ThreeR057.1	Three Rivers at U.S.F.S. campground	3.00	F	0	F	0	T	0	N	0	0	F	1	N	0	0.5	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	2.5	5.500
49Sacram049.1	Sacramento River below Timberon	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	no	0	T	0	0.70	1	1.5	4.500
49Sacram051.6	Sacramento River above Timberon	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	no	0	T	0	0.70	1	1.5	4.500
49Sacram060.3	Sacramento River above Scott Able Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	no	0	T	0	0.70	1	2.0	5.000
49Sacram061.8	Sacramento River at USGS Gage	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	no	0	T	0	0.70	1	1.5	4.500
49Sacram066.9	Sacramento River below Sacramento Lake	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	no	0	T	0	0.70	1	1.5	4.500
49Sacram068.7	Sacramento River above Sacramento Lake	3.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.0	4.500
49ScottA000.1	Scott Able Creek above Sacramento River	1.83	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.0	2.833
50Beaver000.1	Beaver Creek above El Porvenir Creek	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.75	1	1.0	2.000
50CaveCr001.9	Cave Creek above Panchuela Creek	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.000
50CaveCr003.4	Cave Creek, 5 yds above FT 251 crossing	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.250
50CowCre064.0	Cow Creek at FR 156 near Elk Mt.	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
50Dalton000.1	Dalton Creek above Pecos River	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.667
50ElPorv000.1	El Porvenir Creek at HWY 65	2.33	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.67	1	2.5	4.833
50ElPorv004.8	El Porvenir Creek at Christian Camp, USGS 0838007	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	>0.75	0	0.5	3.500
50ElPorv012.6	El Porvenir Creek below Beaver and Holinger	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.76	0	0.0	1.000
50Gallin075.8	Gallinas River 1 mile above San Augustin	4.67	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.60	1	6.5	11.167
50Gallin101.8	Gallinas River 0.25 mile below Las Vegas WWTF	4.67	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.70	1	5.0	9.667
50Gallin102.1	Gallinas River below Las Vegas, above WWTF outfall	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.70	1	6.0	10.000
50Gallin114.6	Gallinas River at Montezuma, below United World Co	3.33	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.5	6.833
50Gallin119.7	Gallinas River at Montezuma, USGS Gage 08380500	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.85	0	1.5	3.833
50Gallin131.8	Gallinas River at FS boundary, USGS gage 0838000	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.86	0	1.5	3.833
50Gallin141.9	Gallinas River at end of FR 263 above Burro Creek	1.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.88	0	1.0	2.667
50Glorie001.3	Glorieta Creek below ponds between HWY 63 and Pe	3.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	3.0	6.667
50Glorie001.4	Glorieta Creek between ponds between HWY 63 and	3.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	3.0	6.667
50Glorie001.6	Glorieta Creek above ponds between HWY 63 and Pe	3.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	3.0	6.667
50HolyGh000.6	Holy Ghost Creek below campground	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1		0.5	>0.75	0	2.0	5.000
50HolyGh002.1	Holy Ghost Creek above campground	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
50HolyGh011.1	Holy Ghost Creek 200 yds below Spirit Lake	1.17	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.167
50Horset003.4	Horsethief Creek, 0.4 mi below FT 251 crossing	1.17	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.167
50JacksC008.4	Jack's Creek above jct of trails 257 & 259	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.500
50PecosR512.6	Pecos River at Puerta de Luna bridge	4.00	T	1	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.70	1	7.5	11.500
50PecosR575.0	Pecos River below Santa Rosa Dam	3.50	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.75-0.50	1	7.5	11.000
50PecosR687.4	Pecos River at El Cerrito (11 mi above Tecolote Cree	3.00	F	0	F	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	F	1	0.80	0	2.5	5.500
50PecosR739.5	Pecos River above Glorieta Creek	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.75	1	4.5	7.500
50PecosR782.1	Pecos River west of Monastery Lake	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.83	0	1.5	3.833
50PecosR784.7	Pecos River below Lisboa Springs Hatchery diversion	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	>0.75	0	3.5	6.500
50PecosR787.8	Pecos River above Lisboa Springs Hatchery	2.50	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.83	0	2.5	5.000
50PecosR802.1	Pecos River above Terrero Bridge	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	>0.75	0	1.5	4.000
50PecosR803.7	Pecos River 400m above Willow Creek	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	0.80	0	0.5	2.833
50PecosR828.4	Pecos River above Pecos Falls	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.500
50RChima007.2	Rito de los Chimayosos 0.5 mi below lower Truchas L	1.17	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.80	0	0.0	1.167
50RioMor000.3	Rio Mora above Pecos Campground	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.84	0	1.0	3.333
50ROscur002.4	Rito Oscuro, 15 yds above FT 251	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.250
50RPadre000.4	Rito del Padre 0.5 miles above Pecos River	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.250
50Tecolo042.3	Tecolote Creek at US I-25	4.67	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.60	1	5.5	10.167
50Tecolo066.9	Tecolote Creek at San Geronomo	3.67	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.68	1	3.5	7.167
50Tecolo076.3	Tecolote Creek below Blue Canyon Creek	3.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	4.333
50Tecolo083.3	Tecolote Creek below Wright Canyon	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
50Tecolo083.8	Tecolote Creek above Wright Canyon, below FR 291	1.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.333
50Tecolo084.0	Tecolote Creek above Wright Canyon and FR 291	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.000
50Tecolo084.5	Tecolote Creek above FR 291	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
50Tecolo085.8	Tecolote Creek 1 mile above FR 291	1.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.333
50Winsor006.9	Winsor Creek, 50m above Winsor trail/Stewart Lake tr	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.250
50Wright000.7	Wright Canyon above FR 291	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.250
50Wright001.0	Wright Canyon 0.5 mile above Tecolote	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.250
50Wright002.6	Wright Canyon 1.2 miles above Tecolote	1.25	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.250
51AguaNe004.2	Agua Negra Creek below diversion 3 miles E. of Hwy	1.25	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.5	1.750
52PecosR483.8	Pecos River below Sumner Dam	3.50	F	0	F	0	T	0	Y	1	0.5	T	0	N	0	0	F	1	Y	1	1	F	1	yes	1	F	1	0.70	1	5.5	9.000
56Cotton025.9	Cottonwood Creek 5 mi west of hwy 285, James Funk	0.50	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	<0.75	1	1.5	2.000
56PecosR194.6	Pecos River at Lake Arthur Falls	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	<0.50	2	8.0	12.000
56PecosR301.0	Pecos River at Highway 70/RR crossing	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	<0.50	2	8.0	12.000
57Corriz001.4	Carrizo Creek below Grindstone Creek	3.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.80	0	0.0	3.500
57Grinds001.5	Grindstone Creek above New Reservoir	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.80	0	0.0	2.500
57RBonit000.8	Rio Bonito above Rio Ruidoso at NM HWY 70	3.50	T	1	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0	yes	1	T	0	0.47	2	7.0	10.500
57RBonit025.7	Rio Bonito near Salazar Canyon at County Road B-23	3.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0	yes	1	T	0	0.59	1	5.0	8.000
57RBonit053.1	Rio Bonito above NM HWY 48 near Angus	3.00	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	no	0	T	0	0.79	0	1.5	4.500
57RBonit061.1	Rio Bonito above Bonito Lake at FR 107	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.82	0	1.0	3.000
57RHondo0117.1	Rio Hondo at Picacho on Casa Linda Ranch	4.00	T	1	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0	yes	1	F	1	0.51	1	7.0	11.000
57RHondo130.7	Rio Hondo below Rio Ruidoso and Rio Bonito	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0	yes	1	F	1	0.68	1	5.0	8.000

Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
57RRuido001.3	Rio Ruidoso at San Patricio, 1mi above Rio Bonito	3.50	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	F	1	0.70	1	5.5	9.000
57RRuido019.8	Rio Ruidoso at Glencoe at FR 443	3.50	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	F	1	0.53	1	5.0	8.500
57RRuido030.1	Rio Ruidoso 50m above WWTP outfall	3.67	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.52	1	6.0	9.667
57RRuido031.4	Rio Ruidoso below new WWTP	4.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	F	1	Y	1	1	T	0	yes	1	F	1	0.55	1	5.0	9.000
57RRuido042.2	Rio Ruidoso 300m E. of closed WWTP	3.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	F	1	0.70	1	4.0	7.500
57RRuido044.4	Rio Ruidoso below Carrizo Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	F	1	0.70	1	4.0	7.000
57RRuido045.1	Rio Ruidoso above Carrizo Creek	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	F	1	Y	1	1	T	0	yes	1	F	1	0.70	1	4.0	7.000
57RRuido048.1	Rio Ruidoso at HWY 37 Bridge	3.50	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	F	1	0.60	1	4.5	8.000
57RRuido052.5	Rio Ruidoso at reservation boundary	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.82	0	1.0	3.333
58RFelix114.1	Rio Felix at Special Area on Flying H Ranch	2.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	3.500
59AquaCh050.2	Agua Chiquita below Barrel Springs	1.50	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	3.000
59RPenas110.5	Rio Penasco near Drunken at NM HWY 24	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	2.5	5.500
59RPenas138.4	Rio Penasco at Cleve Ranch	3.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.0	6.000
59RPenas170.4	Rio Penasco at Bluff Springs	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.5	6.500
60BlackR017.7	Black River at Harkey Crossing	NA	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	3.5	NA
60BlueSp003.4	Blue Spring	1.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	2.500
60ChosaS004.5	Chosa Spring 2.8 miles above Black River, off Co Rd	1.00	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	2.500
60DarkCa085.1	Dark Canyon at special area	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.0	2.000
60Grapev013.0	Grapevine Creek 5 miles above Black River (AKA Ge	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.0	4.000
60PecosR011.3	Pecos River near Red Bluff at County Road 725	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	F	1	yes	1	F	1	0.56	1	8.0	12.000
60PecosR050.2	Pecos River below Black River at Harroun Crossing	4.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.60	1	8.5	12.500
60PecosR093.2	Pecos River below Lower Tansil Dam	3.75	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	0.55	1	8.5	12.250
60PecosR124.7	Pecos River below Brantley Dam	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	<0.50	2	8.0	12.000
62Delawa001.0	Delaware River 0.5 mi above Pecos River	3.00	T	1	T	1	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1		0.5	0.65	1	5.0	8.000
62Pecos002.7	Pecos River above Deleware River	4.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	1	yes	1	F	1	<0.75	1	7.0	11.000
64Navajo009.7	Navajo River above Amargo Creek and below La Jui	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	4.5	7.500
64Navajo015.5	Navajo River below Amargo Creek	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	4.5	7.500
64Navajo023.3	Navajo River downstream from Barella Canyon and C	2.50	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	no	0	F	1	0.70	1	4.5	7.000
64Navajo029.4	Navajo River at eastern boundary of Jicarilla Apache	3.00	F	0	T	1	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	no	0	T	0	0.70	1	4.5	7.500
64SanJua111.0	San Juan River above Navajo Reservoir	3.50	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	yes	1		0.5	0.75	1	4.0	7.500
66Animas009.8	Animas River 5 miles above Farmington.	3.33	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.70	1	6.5	9.833
66Animas048.0	Animas River at Cedar Hill	3.00	F	0	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	F	1	0.70	1	5.0	8.000
66Animas054.6	Animas River at CO Border near Riverside	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	F	1	0.70	1	5.0	8.000
67LaPlat033.8	La Plata River at CO Border	3.00	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	F	1	0.70	1	7.0	10.000
75RPesca009.7	Rio Pescado at Hwy 602 above Zuni	4.00	F	0	F	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	N	0	0	F	0.5	no	0	F	1	0.70	1	3.5	7.500
75RPesca024.8	Rio Pescado below diversion	3.00	T	1	F	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	N	0	0	F	0.5	no	0	F	1	0.70	1	4.5	7.500
77BlackC000.1	Black Canyon above East Fork Gila River	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.667
77BlackC016.8	Black Canyon Creek above Upper Black Canyon CG	4.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	5.000
77BlackC028.3	Black Canyon Creek above Aspen Canyon	2.33	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.333
77Bobcat000.8	Bobcat Spring between Adobe spring and East Fork (	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.000
77Bonner002.4	Bonner Creek 1.5 miles above Black Canyon	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.000
77CubCre005.6	Cub Creek 1 mile above Middle Fk Gila	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	1.000
77Diamon038.2	Main Diamond Creek, 0.5 mile below junction of trails	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.500
77Diamon039.3	Main Diamond Creek at junction of trails 40 &42 (near	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.500
77Diamon040.1	Main Diamond Creek, 0.5 mile above junction of trails	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.500
77EFkGil000.1	East Fork Gila River at Grapevine	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	yes	1	T	0	<0.75	1	3.5	6.500
77EFkGil000.5	East Fork Gila River above Grapevine CG	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	yes	1	T	0	>0.75	0	1.0	4.000
77EFkGil010.0	East Fork Gila River below Black Canyon	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	yes	1	T	0	>0.75	0	1.0	4.000
77EFkGil012.1	East Fork Gila River 1 mile above Black Canyon	3.33	F	0	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	N	0	0	F	0	yes	1	T	0	0.70	1	2.5	5.833
77EFkGil035.4	East Fork Gila River below Taylor Creek	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.70	1	3.5	6.500
77GilaRi092.0	Gila River above Turkey Creek	2.50	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	no	0	T	0	>0.75	0	1.0	3.500
77GilaRi131.3	Gila River below East Fork Gila River	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	0	no	0	T	0	>0.75	0	0.5	3.500
77Gilita000.1	Gilita Creek above Middle Fork Gila River (Snow Can	2.67	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.82	0	1.0	3.667
77Gobble001.9	Gobbler Canyon Creek above Mogollon Creek @ FT	1.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.500
77IronCr000.1	Iron Creek above Middle Fork Gila River	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.79	0	0.0	2.500
77MFkGil000.5	Middle Fork Gila River above West Fork Gila River	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	yes	1	T	0	0.65	1	2.0	5.000
77MFkGil028.3	Middle Fork Gila River above Indian Creek	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0	yes	1	T	0	>0.75	0	1.0	3.000
77MFkGil054.8	Middle Fork Gila River below Gilita Creek	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	F	0.5	no	0	T	0	0.72	1	1.5	3.500
77MFkGil055.0	Middle Fork Gila River above Gilita Creek	3.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	F	1	no	0	T	0	0.72	1	3.5	6.500
77Mogoll029.9	Mogollon Creek at Bud's Hole	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
77Mogoll037.2	Mogollon Creek below Mouth of S F	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
77Mogoll038.8	Mogollon Creek below Trail Canyon	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
77Mogoll042.0	Mogollon Creek at Woodrow Canyon	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	3.000
77Taylor004.2	Taylor Creek below Wall Lake	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	0.5	yes	1	T	0	0.72	1	4.0	7.000
77TrailC000.1	Trail Canyon Creek above Mogollon Creek	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.000
77Turkey001.8	Turkey Creek above Gila River at Wilderness Bounda	1.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	>0.75	0	1.0	2.000
77WFkGil000.3	West Fork Gila River below Hot Springs, above East	3.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	yes	1	T	0	0.70	1	2.5	5.500
77WFkGil010.0	West Fork Gila River 1.5 miles above Middle Fork	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	F	1	0.78	0	1.0	3.500
77WFkGil038.1	West Fork Gila River above White Creek	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	>0.75	0	0.0	2.500
77Willow000.6	Willow Creek above Gilita Creek	2.50	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	no	0	T	0	>0.75	0	0.5	3.000
78GilaRi003.5	Gila River 1 mile west of Virden	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.70	1	2.0	5.000
78GilaRi026.1	Gila River below Red Rock at BLM wildlife area	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0	no	0	T	0	0.70	1	2.0	5.000
78GilaRi052.6	Gila River above Mangas Creek (near Bill Evans Lake	3.67	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	F	0	no	0	T	0	0.70	1	3.5	7.167
78GilaRi074.8	Gila River below Mogollon Creek	3.00	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0	no	0	T	0	0.70	1	3.0	6.000
79Clanto000.1	Clanton Draw on Gray Ranch	3.00		0.5	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.70	1	1.5	4.500
80Center000.1	Centerfire Creek at Forest Road 210	2.67	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.70	1	3.0	5.667
80Negrit000.1	Negrito Creek above the Tularosa River	2.00	F	0	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.85	0	1.0	3.000
80SanFra028.6	San Francisco River below Glenwood at Hot Springs	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.70	1	4.5	7.500
80SanFra049.1	San Francisco River below Alma	3.67	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.60	1	6.5	10.167
80SanFra105.7	San Francisco River below Reserve	3.67	T	1	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	0.65	1	6.5	10.167
80SanFra115.7	San Francisco River above Reserve at Gage	3.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	F	1	0.70	1	5.0	8.000
80SanFra154.1	San Francisco River at Luna	3.33	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	4.0	7.333
80SanFra159.3	San Francisco River west of Luna	3.00	F	0	F	0	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.75	1	4.0	7.000
80TroutC002.1	Trout Creek - Quality Area	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.85	0	1.0	4.000
80Tularo001.3	Tularosa River above San Francisco River	3.00	F	0	T	1	F	1	Y	1	1	F	1	Y	1	1	T	0	N	0	0	T	0	yes	1	T	0	0.65	1	5.0	8.000
80Tularo050.8	Tularosa River above Aragon	3.00	F	0	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	T	0	no	0	T	0	0.75	1	2.0	5.000
80Whitew000.5	Whitewater Creek at Glenwood	3.67	F	0	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	yes	1	T	0	0.77	0	3.5	7.167

Site Name	Site Description	BPJ Score Avg	0 flow by diversion T or F	Flow score	Channalized T or F	Chan Score	<10% ag. T or F	ag s	ag impact Y or N	ag im score	Total Ag	<15 grazing T or F	graz score	Grazing impact Y or N	gr im s	Totla Graz	<5% urban T or F	urb s	urb impact Y or N	ur im s	Total Urban	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	NPDES Score	Habitat Score	Habitat "Rank"	Partial Score	Total Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	4.50	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.45	2	6.0	10.500
02DryCim049.8	Dry Cimarron River at Gage N of Guy	4.00	T	1	F	0	T	0	Y	1	0.5	F	1	Y	1	1	T	0	N	0	0	F	0.5	yes	1	T	0	0.49	2	6.0	10.000
02DryCim100.0	Dry Cimarron River near Oak Creek	4.00	T	1	F	0	T	0	N	0	0	F	1	Y	1	1	T	0	N	0	0	F	0.5	no	0	T	0	0.65	1	3.5	7.500
02DryCim103.6	Dry Cimarron River below Folsom Falls	3.50	T	1	F	0	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	no	0	T	0	0.65	1	2.0	5.500
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	4.00	F	0	F	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	N	0	0	T	0	no	0	F	1	<0.50	2	4.5	8.500
04Canadi402.9	Canadian River at Tinaja	4.00	T	1	T	1	T	0	N	0	0	F	1	Y	1	1	T	0	Y	1	0.5	T	0	no	0	F	1	<0.50	2	6.5	10.500
04Canadi409.4	Canadian River at Hebron	4.00	T	1	F	0	T	0	N	0	0	T	0	Y	1	0.5	T	0	Y	1	0.5	T	0	no	0	T	0	0.75-0.50	1	3.0	7.000
80WhiteW008.8	Whitewater Creek at Catwalk	2.00	F	0	T	1	T	0	N	0	0	T	0	N	0	0	T	0	N	0	0	T	0	yes	1	T	0	0.85	0	2.0	4.000

Appendix C: Site Attributes - Key to Attributes Worksheet

Rating (1-5)	Rate overall watershed and stream condition above the site: 1 2 3 4 5 1 - pristine 2 – minimal impact 3 – slight impact 4 – moderately impacted 5 – severely impacted
Ave. Flow	Average Stream Flow (excluding spring runoff and monsoon season) ___ <1cfs, ____1 to 10cfs, ____ >10cfs, ____>100cfs
Flow Status Peren. or Inter.	The stream has flow except during drought years - **Perennial** The stream has no flow in some areas during most years - **Intermittent**
0 flow by diversion	The lack of flow due to diversion of water? **T or F**
Channalized	Is the stream channelized at the sites _____, any point upstream of the site _____,
<15% Grazing	Less then 15% of the watershed above the site have high intensity grazing (i.e., riparian access, high density, frequent grazing, over grazing) T or F
Column 1	New Site Name - number for 8 HUC, stream name, and river kilometer
Column 2	Site Description
Column 3	BPJ Score - described above
Column 4	0 flow due to diversion - described above
Column 5	Channalized - T or F (described above)
Column 6	<15 grazing - described above
Column 7	Is there impact to the stream from the above activity? N or Y
Column 8	<5% urban - in the watershed above the site
Column 9	Is there impact to the stream from the above activity? N or Y
Column 10	no dams
Column 11	Is there impact to the stream from the dam? 0-no, 0.5-minimal, 1-yes
Column 12	on 303d list- list of impaired waters, not meeting water quality standards
Column 13	no NPDES permits upstream of the site
Column 14	RBP Habitat Score as a percent (if no score estimated at >75, 75-50, or <50)
Column 15	Comments - any brief info on site and/or watershed

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Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
04Canadi429.9	Canadian River at Coal Canyon	F	F	T	N	T	N	T	N	T	0	no	0	T	0.75-0.50
04Vermej002.9	Vermejo River above I-25	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Vermej045.4	Vermejo River at Dawson	T	F	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Vermej073.7	Vermejo River below York Canyon	F	F	T	N	T	Y	T	Y	T	0	no	0	F	0.65
05Cieneg006.3	Cieneguilla Creek at Gage above Eagle Nest Lake	F	T	T	N	F	Y	T	Y	T	0	yes	1	F	0.65
05Cieneg016.5	Cieneguilla Creek at County Road B-25	F	T	T	N	T	Y	F	Y	T	0	yes	1	F	0.65
05Cieneg018.5	Cieneguilla Creek below Angel Fire lagoons	F	T	T	N	T	N	F	Y	T	0	yes	1	F	0.65
05Cieneg019.3	Cieneguilla Creek at Angel Fire Road	F	T	T	N	T	N	T	Y	T	0	yes	1	T	0.65
05Cieneg021.9	Cieneguilla Creek below Crooked Creek	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.65
05Cimmar018.4	Cimarron River above Boy's Ranch (5 mi below Raya	F	F	F	Y	F	Y	T	Y	F	0	yes	1	T	<0.50
05Cimmar044.5	Cimarron River at Cimarron (HWY 21)	T	T	T	N	T	N	T	Y	F	0	yes	1	F	0.65
05Cimmar050.8	Cimmaron River at USGS gage by Philmont	F	F	T	N	T	N	T	N	F	0	yes	1	F	0.87
05Cimmar072.7	Cimarron River above Clear Creek, in upper quality s	F	F	T	N	T	N	T	N	F	0.5	no	0	T	>0.75
05Cimmar077.2	Cimmaron River at Tolby Creek	F	F	T	N	T	N	F	Y	F	0.5	no	0	F	0.88
05Mccrys007.0	McCrystal Creek above McCrystal Place	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
05MonteV000.5	Monte Verde above Cieneguilla Creek and lake	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
05Moreno003.7	Moreno Creek above U.S. HWY 64	T	T	T	N	F	Y	T	N	T	0	yes	1	T	0.60
05MPonil000.1	Middle Ponil Creek above South Ponil Creek	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.84
05MPonil027.2	Middle Ponil Creek above FR 1950	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.89
05NPonil000.1	North Ponil Creek above Ponil Creek	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.77
05NPonil027.5	North Ponil Creek at FR 1950	F	T	T	N	T	N	T	N	T	0	yes	1	T	0.71
05PonilC023.8	Ponil Creek at USGS Gage	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.87
05Rayado033.8	Rayado Creek near USGS Gage on Philmont	F	F	T	N	T	N	T	N	T	0	no	0	T	0.92
05Sixmil001.4	Sixmile Creek at USGS Gage	T	F	T	N	T	N	T	N	T	0	yes	1	T	0.72
05SPonil004.0	South Ponil Creek 2.5 miles above Ponil Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
05SPonil007.2	South Ponil Creek 4.5 miles above Ponil Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
06Canadi232.6	Canadian River at Sanchez	T	F	T	N	F	Y	T	N	T	0	no	0	F	0.75-0.50
06Canadi274.8	Canadian River at State HWY 120 bridge	T	F	T	N	F	Y	T	N	T	0	no	0	F	0.75-0.50
06Canadi322.5	Canadian River at Mills Canyon	T	F	T	N	F	Y	T	N	T	0	no	0	F	0.75-0.50
06Canadi348.3	Canadian River 0.25 mile below Cimarron River	T	F	F	Y	F	Y	T	N	T	0	no	0	F	0.75-0.50
07Coyote011.8	Coyote Creek at Rainsville	T	F	T	Y	F	Y	T	Y	T	0	yes	1	T	0.75-0.50
07Coyote040.0	Coyote Creek at State Park	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	>0.75
07Coyote047.9	Coyote Creek below Black Lake	F	F	T	Y	T	Y	T	N	T	0	yes	1	T	>0.75
07Manuel020.9	Manuelitas Creek above Maestas Creek	F	F	T	N	T	Y	T	N	T	0	no	0	T	>0.75
07MoraRi078.7	Mora River at Valmora	F	F	T	Y	F	Y	F	Y	T	0	yes	1	T	>0.75
07MoraRi146.6	Mora River below Mora WWTP lagoons	F	F	F	Y	F	Y	T	Y	T	0	no	0	F	0.47
07MoraRi147.1	Mora River above Mora WWTP lagoons	F	T	F	Y	F	Y	T	Y	T	0	no	0	T	0.61
07MoraRi157.9	Mora River at Cleveland Church	T	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.43
07MoraRi170.9	Mora River at Chacon 0.6 miles above USGS Gage	T	F	F	Y	F	Y	T	Y	T	0	yes	1	T	0.75-0.50
07MoraRi179.1	Mora River at Chacon below Luna and Lujan Creeks	T	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.45
07Sapell000.1	Sapello River above Mora River (HWY 85)	T	F	T	Y	F	Y	F	Y	T	0	yes	1	T	0.75-0.50
07Sapell044.4	Sapello River below Manuelitas Creek (HWY 518)	T	T	T	N	F	Y	T	Y	F	0	yes	1	T	0.75-0.50
07Sapell057.4	Sapello Creek at Sander's Cabin	F	F	T	N	F	Y	T	Y	F	0	no	0	T	>0.75
07Sapell069.8	Sapello River at Mosimann Ranch	F	F	T	N	T	N	T	N	F	0	no	0	T	>0.75
08Concha039.1	Conchas River above Varidaro	T	F	T	N	F	Y	T	N	T	0	no	0	T	<0.50
08Tremen026.2	Trementina Creek O.25 mi downstream of Arroyo Re	F	F	T	N	T	Y	T	N	T	0	no	0	T	<0.50
09Canadi039.0	Canadian River 9 miles east of Logan	T	F	T	Y	T	Y	T	Y	F	1	no	0	F	<0.50
09Canadi062.4	Canadian River below Ute Reservoir at NM HWY 54	T	F	F	Y	F	Y	T	Y	F	1	no	0	F	<0.50
09Canadi184.1	Canadian River below Conchas Dam	T	T	T	N	F	Y	T	Y	F	1	no	0	F	<0.50
10PaloBl005.1	Palo Blanco 3 miles above Ute Creek, 9 mi above hw	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.75-0.50
10UteCre145.0	Ute Creek (downstream from Hwy 120)	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.75-0.50
16Seneca048.5	Seneca Creek 7 miles above Clayton Lake (AKA Cier	F	F	T	N	T	N	T	N	T	0	no	0	T	0.75-0.50
27RPinos000.8	Rio de los Pinos 0.5 mi above CO @ DG&F area	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.74
27RPinos011.3	Rio de los Pinos at FS Boundary	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.72
27RSanAn025.3	Rio San Antonio at FR 87	T	F	T	N	F	Y	T	N	T	0	yes	1	T	0.51
28BigTes013.2	Big Tesuque Creek above Aspen Vista FR	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
28Cabres005.4	Cabresto Creek at USGS Gage	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.71
28Casias000.6	Casias Creek above Costilla reservoir	F	F	T	N	T	N	T	N	T	0	no	0	T	0.84
28Columb000.1	Columbine Creek above Red River	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.60
28Comanc000.1	Comanche Creek above Costilla Creek	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.84
28Comanc007.7	Comanche Creek @ upper exclosure	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.67
28DPCany012.4	DP Canyon near airport	T	F	T	N	T	N	F	Y	T	0	yes	1	F	0.75-0.50
28Embudo000.8	Embudo Creek above Rio Grande at Gage Hwy68)	T	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.23
28Embudo020.5	Embudo Creek below Rio del Pueblo and Rio Santa E	F	F	F	Y	F	Y	T	N	T	0	yes	1	T	0.82
28LosAla010.5	Los Alamos Canyon below TA 53	T	F	T	N	T	N	T	Y	F	0.5	yes	1	F	0.75-0.50
28LosAla021.0	Los Alamos Canyon below Reservoir spillway	T	F	T	N	T	N	T	Y	F	0.5	yes	1	T	0.75-0.50
28LosAla021.5	Los Alamos Canyon above Reservoir	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
28NFkRHo000.5	North Fork Rio Hondo adjacent to Taos Ski Valley Pa	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.90
28NFkTes002.1	North Fork Tesuque Creek at Santa Fe Ski Basin Roa	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.97
28RChupa015.2	Rio Chupadero above summer homes	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.67
28RCosti025.6	Rio Costilla at USGS Gage above Costilla	F	T	F	Y	F	Y	T	Y	F	0	no	0	T	0.81
28RCosti046.7	Rio Costillo above Latir Creek	F	F	T	N	T	N	T	Y	F	0	no	0	T	0.84
28RCosti048.6	Rio Costilla below Comanche Creek	F	F	T	N	T	N	T	Y	F	0	no	0	T	0.84
28RCosti048.9	Rio Costilla above Comanche Creek	F	F	T	N	T	N	T	Y	F	0	yes	1	T	>0.75
28RCosti052.2	Rio Costilla at Valle Vidal Boundary	F	F	T	N	T	N	T	Y	F	0.5	yes	1	T	0.84
28RCosti055.5	Rio Costilla below Costilla Reservoir	F	F	T	N	T	N	T	Y	F	0.5	yes	1	T	0.75-0.50
28RCosti057.9	Rio Costilla above Costilla Reservoir	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75

Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
28RedRiv000.9	Red River above Rio Grande	F	F	F	N	T	N	T	Y	T	0	yes	1	F	0.90
28RedRiv005.3	Red River below Red River fish hatchery	F	F	F	Y	T	N	T	Y	T	0	yes	1	F	0.90
28RedRiv006.4	Red River above Hatchery	F	F	F	Y	T	N	T	Y	T	0	yes	1	F	0.89
28RedRiv009.8	Red River at HWY 3 bridge in Questa	F	T	F	Y	T	N	T	Y	T	0	yes	1	F	0.73
28RedRiv014.5	Red River above Questa at USGS Gage	F	F	T	N	T	N	T	Y	T	0	yes	1	F	0.73
28RedRiv017.1	Red River at Goat Hill Cpgd.	F	F	T	N	T	N	T	Y	T	0	yes	1	F	0.79
28RedRiv019.6	Red River below Molycorp, above Columbine	F	T	T	N	T	N	T	Y	T	0	yes	1	F	0.77
28RedRiv024.1	Red River above Molycorp (USGS Staff Gauge)	F	T	T	N	T	N	T	Y	T	0	yes	1	F	0.79
28RedRiv025.4	Red River above Hanson Creek (below Fawn Lakes (	F	F	T	N	T	N	T	Y	T	0	yes	1	F	0.77
28RedRiv027.8	Red River above Molycorp, below WWTP	F	F	T	N	T	N	T	Y	T	0	yes	1	F	0.77
28RedRiv028.5	Red River above Red River WWTP	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.77
28RedRiv031.1	Red River below Bitter Creek	F	T	T	N	T	N	T	Y	T	0	yes	1	T	0.75
28RedRiv034.9	Red River at Zwergel Dam	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.79
28RFerna008.2	Rio Fernando de Taos at gage, @ Nogal	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.60
28RFerna032.5	Rio Fernando de Taos above upper US Hwy 64	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.70
28RFrijo004.8	Rio Frijoles at Wilderness Boundary	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
28RGRanc011.1	Rio Grande del Rancho @ gage near Talpa	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.77
28RGRanc015.6	Rio Grande del Rancho above HWY 518 (@ Ft. Burg	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.70
28RGrand541.2	Rio Grande at Buckman Crossing	F	F	F	Y	T	Y	T	Y	F	0	yes	1	F	0.72
28RGrand572.8	Rio Grande at Highway 74 (near San Juan Pueblo)	F	T	F	Y	T	Y	T	Y	F	0	yes	1	F	0.70
28RGrand595.7	Rio Grande below Embudo River	F	F	F	Y	T	Y	T	Y	F	0	yes	1	F	0.85
28RGrand624.3	Rio Grande at gage at Embudo Station	F	F	F	Y	T	Y	T	Y	F	0	yes	1	F	0.85
28RGrand647.9	Rio Grande below Rio Pueblo de Taos at USGS gage	F	F	F	Y	T	Y	T	N	F	0	yes	1	F	0.82
28RGrand650.8	Rio Grande below Rio Pueblo de Taos	F	F	F	Y	T	Y	T	N	F	0	yes	1	F	0.82
28RGrand663.4	Rio Grande above Red River	F	F	F	Y	T	Y	T	N	F	0	yes	1	F	0.90
28RGrand731.6	Rio Grande at Lobatos near CO Border	F	F	F	Y	T	Y	T	Y	F	0.5	yes	1	F	0.76
28RGuaje021.7	Rio Guaje above reservoir, Santa Fe NF	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.70
28RHondo000.1	Rio Hondo above Rio Grande	F	F	F	Y	F	Y	T	Y	T	0	no	0	F	0.87
28RHondo003.9	Rio Hondo at HWY 3 Bridge	F	F	F	Y	F	Y	T	Y	T	0	yes	1	F	0.75
28RHondo012.1	Rio Hondo at Valdez bridge	F	F	T	Y	T	Y	T	Y	T	0	yes	1	F	0.80
28RHondo014.8	Rio Hondo 1.5 miles above Valdez at USGS Gage	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.88
28RHondo022.4	Rio Hondo 2.4 miles below WWTP	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.85
28RHondo026.7	Rio Hondo 300 yards below WWTP	F	F	T	N	T	N	F	Y	T	0	no	0	F	0.80
28RHondo026.9	Rio Hondo 50 yards above WWTP	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.85
28RiOlla000.8	Rito de la Olla at HWY 518 (@ Ft. Burgwin)	F	F	T	N	T	N	T	N	T	0	no	0	T	0.84
28RLucer013.0	Rio Lucero at USGS Gage on Taos Pueblo	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.95
28RMedio007.2	Rio en Medio at USFS boundary	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.85
28RMedio013.3	Rio en Medio at Aspen Ranch	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.87
28RMedio016.9	Rio en Medio 200 m below ski area parking lot	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.75
28RMedio017.5	Rio en Medio above ski area	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.80
28RNambe001.1	Rio Nambe 1.5km below Nambe Reservoir	F	F	T	N	T	N	T	Y	F	1	no	0	T	0.70
28RNambe004.0	Rio Nambe (Pojoque Creek) 200m below Nambe Res	F	F	T	N	T	N	T	Y	F	1	no	0	T	0.70
28RNambe005.1	Rio Nambe above Nambe Reservoir	F	F	T	N	T	N	T	N	T	0	no	0	T	0.93
28RPuebl000.3	Rio Pueblo at HWY 75 above Rio Santa Barbara	F	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.80
28RPuebl012.4	Rio Pueblo at gage above Hwy 518/75	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.80
28RPuebl019.0	Rio Pueblo above Sipapu and below Flechado CG	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.80
28RPuebT000.1	Rio Pueblo de Taos 400m above Rio Grande	F	F	F	Y	F	Y	F	Y	T	0	yes	1	F	0.91
28RPuebT003.5	Rio Pueblo de Taos 4km above Rio Grande	F	F	F	Y	F	Y	F	Y	T	0	yes	1	F	0.75
28RPuebT008.2	Rio Pueblo de Taos below Taos WWTP near Gage	F	F	F	Y	F	Y	F	Y	T	0	yes	1	F	0.60
28RPuebT013.2	Rio Pueblo de Taos above Rio Grande del Rancho, n	F	T	F	Y	F	Y	F	Y	T	0	yes	1	T	0.70
28RPuebT015.8	Rio Pueblo de Taos above Rio Fernando, near Lower	F	T	F	Y	F	Y	F	Y	T	0	yes	1	T	0.65
28RQuema003.1	Rio Quemado near Chimayo	F	T	T	N	F	Y	T	Y	T	0	no	0	T	0.75
28RSanBa000.1	Rio Santa Barbara above Rio Pueblo	T	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.83
28RSanBa017.9	Rio Santa Barbara at upper Santa Barbara campgrou	F	F	T	N	T	N	T	N	T	0	no	0	T	0.78
28SanCla009.7	Santa Clara Creek at Singer's Ranch above Irrigation	F	F	T	N	F	Y	F	Y	T	0		0.5	T	0.74
28SanCla016.1	Santa Clara Creek near Pue Well	F	F	T	N	F	Y	F	Y	T	0		0.5	T	0.64
28SanCla024.1	Santa Clara Creek near Campground 11	F	F	T	N	F	N	F	N	T	0		0.5	T	0.78
28SanCla033.0	Santa Clara Creek at Turkey Creek, 0.5 mile below V	F	F	T	N	T	N	F	N	T	0		0.5	T	0.90
28SanCru019.1	Santa Cruz River 100m below Rio Medio and Rio Frij	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.90
28Sandia011.2	Sandia Canyon below TA 53	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.50
28Sandia012.1	Sandia Canyon 7.53 miles above Grande, below Rad	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.50
28Sandia015.8	Sandia Canyon 10.1 miles above Rio Grande (in wetl	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.50
28Sandia016.1	Sandia Canyon 10.3 miles above Rio Grande (in wetl	F	F	T	N	T	N	T	Y	T	0	no	0	F	0.50
28SFkTes032.3	South Fork Tesuque Creek at Ski Basin Road	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.90
28Tesuqu023.4	Tesuque Creek at gage 08302500 near Santa Fe	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
29Abiqui001.8	Abiquiu Creek at U.S. HWY 84 bridge	F	F	T	N	T	Y	T	Y	T	0	yes	1	T	0.70
29Abiqui002.3	Abiquiu Creek 0.5 mile above U.S. HWY 84	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.70
29Canada005.6	Canada del Potrero at Rd 44 near El Rito			T	N	T	Y	T	N	T	0	no	0	T	0.75
29Cannon002.4	Cannones Creek above HWY 84 (near Chama)	T	T	T	N	F	Y	T	N	T	0	no	0	T	0.75
29Chihua001.3	Chihuahuenos Creek above Canones	F	F	T	N	F	Y	T	N	T	0	yes	1	T	>0.75
29Coyote005.6	Coyote Creek at Forest Road 316	F	F	T	N	T	Y	T	Y	T	0	yes	1	T	0.68
29Coyote017.5	Coyote Creek at 0.5 mi above FR 100 (near Coyote)	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
29ElRito000.7	El Rito Creek 0.5 mile above Rio Chama	T	F	T	Y	F	Y	T	Y	T	0	yes	1	T	0.70
29ElRito035.9	El Rito (lower) on Oso Ranch	F	F	T	N	T	Y	T	N	T	0	no	0	T	>0.75
29ElRito050.2	El Rito (upper) near Canyon de Chacon	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
29LitTus003.4	Little Tusas at FR 133	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.75-0.50
29NaborC000.1	Nabor Creek 5 yards upstream of Rio Chamita	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.72

Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
29NaborC003.6	Nabor Creek 2.0 miles above Rio Chamita	F	F	T	N	F	Y	T	N	T	0	no	0	T	>0.75
29Polvad009.0	Polvadera Creek below FR 422	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
29Polvad009.8	Polvadera Creek at Forest Road 422	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
29RBrazo001.6	Rio Brazos above US HWY 84	T	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.50
29RBrazo015.4	Rio Brazos above Corkins Lodge	F	F	T	N	T	N	T	N	T	0	no	0	T	0.97
29RCanji039.4	Rio Canjilon at diversion above NF boundary	T	F	T	N	T	N	T	Y	F	0.5	no	0	T	0.70
29RChama004.5	Rio Chama at Hwy 285 at Gage (on San Juan Res.?)	T	T	F	Y	F	Y	T	Y	F	0.5	yes	1	F	0.70
29RChama019.3	Rio Chama at NM HWY 233 (4 miles below El Rito)	F	T	F	Y	F	Y	T	Y	F	0.5	yes	1	F	0.70
29RChama029.4	Rio Chama at NM HWY 554 (to El Rito)	F	T	F	Y	F	Y	T	Y	F	1	yes	1	F	0.70
29RChama050.4	Rio Chama below Abiquiu Dam at USGS Gage	T	T	T	N	F	Y	T	Y	F	1	yes	1	F	0.70
29RChama079.5	Rio Chama near gage above Abiquiu Reservoir	F	F	T	N	T	Y	T	Y	F	0.5	no	0	F	0.85
29RChama089.5	Rio Chama below Rio Gallina	F	F	T	N	T	Y	T	Y	F	0.5	no	0	F	0.85
29RChama090.1	Rio Chama below Rio Cebolla	F	F	T	N	F	Y	T	N	F	1	no	0	F	>0.75
29RChama118.1	Rio Chama below Rio Nutrias	F	F	F	Y	F	Y	T	N	F	1	no	0	F	>0.75
29RChama122.6	Rio Chama below El Vado Reservoir	T	F	F	Y	T	Y	T	Y	F	1	no	0	F	0.70
29RChama143.8	Rio Chama 2mi below La Puente Gage	F	F	F	Y	F	Y	T	Y	T	0	no	0	F	0.80
29RChama147.1	Rio Chama 4 km below Chama WWTP (G&F Area)	F	T	T	N	T	N	T	Y	T	0	yes	1	F	0.85
29RChama157.0	Rio Chama below Rio Chamita (@Unser's)	F	T	T	N	T	N	T	Y	T	0	yes	1	F	0.83
29RChama161.1	Rio Chama at U.S. HWY 84 below Chama	F	T	T	N	T	N	F	Y	T	0	yes	1	T	0.76
29RChama165.4	Rio Chama at NM HWY 17 bridge above Chama	F	T	T	N	T	N	T	N	T	0	no	0	T	0.85
29RChama166.4	Rio Chama 0.5 miles above HWY 17 (water intake)	F	T	T	N	T	N	T	N	T	0	no	0	T	0.86
29RChami002.6	Rio Chamita 25m below WWTP outfall	F	T	T	N	F	Y	T	Y	T	0	yes	1	F	0.76
29RChami002.8	Rio Chamita 10m above Chama WWTP outfall	F	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.70
29RChami004.0	Rio Chamita above WWTP at State HWY 29	F	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.75
29RChami008.4	Rio Chamita above Rd 29 bridge on Seargent WLA	F	T	T	N	F	Y	T	N	T	0	yes	1	T	0.75
29RChami016.1	Rio Chamita 1 mile above Nabor Creek	T	F	T	N	F	Y	T	N	T	0	yes	1	T	0.74
29RChami017.8	Rio Chamita above Sexto Creek	T	F	T	N	F	Y	T	N	T	0	yes	1	T	0.76
29REncin009.7	Rito Encino at FR 100z	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.56
29RGalli005.5	Rio Gallina above Rio Chama and Skull Ranch	F	F	F	Y	F	Y	T	Y	T	0	yes	1	T	<0.50
29RGalli045.1	Rio Gallina at FR 76 near Gallina	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.84
29RGalli048.3	Rio Gallina above San Pedro Parks wilderness bound	F	F	T	N	T	Y	T	N	T	0	no	0	T	>0.75
29RioOso004.5	Rio del Oso, outside exclosure (downstream)	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
29RioOso004.7	Rio del Oso 1.8 mi above SFNF boundary	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
29RioOso008.8	Rio del Oso, within exclosure	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
29RMedio002.7	Rio del Medio above FR 125 near Cebolla	T	F	T	N	F	Y	T	N	T	0	no	0	T	0.75
29RNutri027.5	Rio Nutrias below HWY 84	F	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.60
29ROjoCa026.1	Rio Ojo Caliente at NM HWY 414	F	F	F	Y	F	Y	T	Y	T	0	yes	1	T	0.65
29RPoleo009.5	Rio Poleo at FR 103	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.75
29RPuerc037.5	Rio Puerco de Chama at FR 103	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.85
29RResum002.4	Rito Resumedero above SPP Wilderness boundary	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
29RTierr026.1	Rito de Tierra Amarilla at HWY 64	F	F	T	N	T	N	T	N	T	0	no	0	T	0.90
29RTusas000.2	Rio Tusas above Madera	F	T	T	Y	F	Y	T	Y	T	0	yes	1	T	0.70
29RTusas028.5	Rio Tusas above Las Tablas	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
29RValle037.8	Rio Vallecito above NF boundary at Vallecitos Ranch	F	F	T	N	T	N	T	N	F	0.5	yes	1	T	>0.75
29SextoC000.1	Sexto Creek above Rio Chamita	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.75
30AnchoC000.1	Ancho Creek above Rio Grande	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.42
30Bulldo000.1	Bulldog Gulch 1.3 miles below HWY 501 (Pajarito trib	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.65
30CanVal003.7	Canyon de Valle 2.6 miles above Water Canyon	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.68
30CanVal003.9	Canyon de Valle in pool 2.7 miles above Water Cany	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.65
30CanVal004.0	Canyon de Valle 2.8 miles above Water Canyon at Bu	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.79
30CanVal004.2	Canyon de Valle 2.9 miles above Water Canyon	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.72
30Capuli012.7	Capulin Creek (CG) Band. Nat. Mon.	F	F	T	N	T	N	T	N	T	0	no	0	T	0.75
30EFkFri000.1	Rito de los Frijoles, East Fork	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.70
30Galist030.9	Galisteo Creek at Hwy 14 near Cerrillos	T	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.35
30Galist050.4	Galisteo Creek in Galisteo	T	F	T	N	F	Y	T	N	T	0	yes	1	T	0.50
30Pajari000.1	Pajarito Creek above Rio Grande	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.69
30Pajari012.6	Pajarito Canyon below Twomile Canyon	F	F	T	N	T	N	F	Y	T	0	no	0	T	0.56
30Pajari015.8	Pajarito Creek below Bulldog Gulch	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.60
30Pajari016.1	Pajarito Canyon below Starmer Gulch	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.75
30Pajari016.3	Pararito Creek above Bulldog Gulch	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.84
30Pajari018.5	Pajarito Creek 0.3 miles above HWY 501	F	F	T	N	T	N	T	N	T	0	no	0	T	0.61
30RFrijo000.1	Rito de los Frijoles above Rio Grande	F	F	T	N	T	N	T	N	T	0	no	0	T	0.70
30RFrijo003.0	Rito de los Frijoles at Bandelier Visitor Center	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.65
30RFrijo018.4	Rito de los Frijoles below West and East Fork	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.65
30RGrand535.1	Rio Grande below Cochiti Reservoir	F	T	T	N	F	Y	F	Y	F	1	yes	1	F	0.65
30SantaF000.1	Santa Fe River 100m above Rio Grande	F	T	T	N	T	N	F	Y	F	0.5	no	0	F	0.63
30SantaF003.7	Santa Fe River above Cochiti Pueblo Hatchery	F	T	T	N	T	N	F	Y	F	0.5	yes	1	F	0.67
30SantaF012.7	Santa Fe River below mine at USGS Gage	F	F	T	N	F	Y	F	Y	F	0.5	yes	1	F	0.75
30SantaF015.3	Santa Fe River 0.5 mi upstream Lonestar Mine	F	F	T	N	F	Y	F	Y	F	0.5	yes	1	F	0.70
30SantaF021.2	Santa Fe River below La Cienega	F	F	T	N	F	Y	F	Y	F	0.5	yes	1	F	0.70
30SantaF028.3	Santa Fe River 2 mi. below WWTP (@ CRd 56)	T	F	T	N	T	Y	F	Y	F	0.5	yes	1	F	0.60
30SantaF032.8	Santa Fe River below WWTP	T	F	T	N	T	Y	F	Y	F	1	no	0	F	0.50
30SantaF057.4	Santa Fe River above McClure reservoirs	F	F	T	N	T	N	T	Y	T	0	no	0	T	>0.75
30Starme000.3	Starmer Gulch 0.1 mile above Pajarito Creek	F	F	T	N	T	N	F	N	T	0	no	0	T	0.70
30WFkFri000.1	Rito de los Frijoles, West Fork	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
31EFkJem000.1	East Fork Jemez River @ Battleship Rock	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.94
31EFkJem010.1	East Fork Jemez River 2 mi above HWY 4 (below Las	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75

Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
31EFkJem015.0	East Fork Jemez River below HWY 4 @ Las Conchas	F	F	T	N	T	N	T	Y	T	0	yes	1	T	>0.75
31EFkJem025.4	East Fork Jemez River near Cerro en Medio	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
31Jarami008.0	Jaramillo Creek above Cerro Pinyon @ Rd B	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.70
31JemezR043.1	Jemez River at Owl Springs Road on Jemez Pueblo	F	T	T	Y	F	Y	T	Y	T	0	no	0	F	0.70
31JemezR046.9	Jemez River near Canon, below Jemez Springs Scho	F	F	T	N	T	Y	T	Y	T	0	no	0	F	0.70
31JemezR049.2	Jemez River above Rio Guadalupe	F	F	T	N	T	Y	T	Y	T	0	yes	1	F	0.79
31JemezR058.9	Jemez River below Jemez Springs WWTP	F	F	T	N	T	Y	T	Y	T	0	yes	1	F	0.70
31JemezR064.6	Jemez River above USFS Ranger Station	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
31JemezR071.3	Jemez River below East Fork Jemez River	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.94
31RCebol000.1	Rio Cebolla above Rio de las Vacas	F	F	T	N	T	Y	T	Y	F	0.5	yes	1	T	0.92
31RCebol005.6	Rio Cebolla at FR 376 crossing near Lake Fork Cany	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.90
31RCebol015.9	Rio Cebolla below Hatchery	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
31RGuada000.1	Rio Guadalupe above Jemez River	F	F	T	N	T	Y	T	Y	F	0	yes	1	T	0.65
31RGuada008.2	Rio Guadalupe above tunnels	F	F	T	N	T	N	T	Y	F	0	yes	1	T	0.90
31RIndio000.2	Rito de los Indios above San Antonio	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
31RPenas000.3	Rito Penas Negras above Rd 126	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.69
31RSanAn000.1	Rio San Antonio at Battleship Rock	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.86
31RSanAn005.3	Rio San Antonio Creek above La Cueva Cpgd.	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.84
31RSanAn008.4	Rio San Antonio at San Antonio campground (above	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.84
31RSanAn009.1	Rio San Antonio above San Antonio Campground	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.83
31RSanAn036.8	Rio San Antonio Creek 1.3 miles above Rito de los In	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.71
31RVacas000.5	Rio de las Vacas above Rio Cebolla	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.90
31RVacas004.2	Rio de Las Vacas below private land at Telephone Ca	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.80
31RVacas011.1	Rio de las Vacas above Girl Scout Camp	F	F	T	N	T	Y	T	N	T	0	yes	1	T	0.75
31RVacas012.2	Rio de las Vacas at NM HWY 126	F	F	T	N	T	N	T	N	T	0	no	0	T	0.84
31RVacas012.6	Rio de las Vacas 0.25 miles above Rd 126	F	F	T	N	T	N	T	N	T	0	no	0	T	0.84
31RVacas017.4	Rio de Las Vacas above FR 70, barrier and SPP wild	F	F	T	N	T	N	T	N	T	0	no	0	T	0.85
31Sulphu000.2	Sulphur Creek above Redondo Creek	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.65
32RGrand294.5	Rio Grande at Bosque del Apache	F	F	T	Y	F	Y	T	N	F	0.5	yes	1	F	0.70
32RGrand322.1	Rio Grande at Socorro	F	F	T	Y	F	Y	T	Y	F	0.5	yes	1	F	0.70
32RGrand373.5	Rio Grande at HWY 60 at Bernardo	F	T	F	Y	F	Y	F	Y	F	0.5	yes	1	F	0.70
33RPuerc464.3	Rio Puerco at Vallicitos	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.75-0.50
36Bluewa012.9	Bluewater Creek below reservoir	F	F	T	N	F	N	T	N	F	1	yes	1	T	0.75
36Bluewa013.5	Bluewater Creek above reservoir	F	F	T	N	F	N	T	N	T	0	yes	1	T	0.75
36RSanJo015.0	Rio San Jose 8 miles above Rio Puerco (at Dripping Vat Springs)			T	N	T	Y	T	N	T	0	no	0	T	0.65
40Alamos054.9	Alamosa Creek 14.4 road miles upstream of Monticello			T	N	T	Y	T	N	T	0	no	0	T	0.50
41RGrand199.1	Rio Grande at T or C	F	T	F	Y	F	Y	T	Y	F	1	yes	1	F	0.70
41RGrand204.5	Rio Grande below E. Butte Reservoir	F	T	F	Y	F	Y	F	Y	F	1	yes	1	F	0.70
42RGrand087.9	Rio Grande at Leasburg Dam	F	T	T	Y	F	Y	F	Y	F	1	yes	1	F	0.65
45Mimbre085.7	Mimbres River above Gallinas Creek	F	F	F	Y	F	Y	T	Y	T	0	yes	1	T	0.70
45Mimbre094.6	Mimbres River at NM HWY 90 in San Lorenzo	T	T	F	Y	F	Y	T	Y	T	0	yes	1	T	0.64
45Mimbre104.8	Mimbres River at USGS Gage at Mimbres	F	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.61
45Mimbre127.4	Mimbres River at Cooney Campground	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.70
48RTular029.6	Rio Tularosa at HYW 70 near Alamogordo	F	F	T	Y	F	Y	T	Y	T	0	yes	1	F	0.70
48SaltCr021.7	Salt Creek on White Sands Missle Range	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.70
48ThreeR033.3	Three Rivers at U.S. HWY 54	F	T	T	N	T	N	T	N	T	0	yes	1	T	0.70
48ThreeR047.6	Three Rivers at County Road A-30	F	T	T	N	F	Y	T	N	T	0	yes	1	T	0.70
48ThreeR057.1	Three Rivers at U.S.F.S. campground	F	F	T	N	F	N	T	N	T	0	yes	1	T	0.70
49Sacram049.1	Sacramento River below Timberon	F	F	T	N	T	N	T	Y	F	0	no	0	T	0.70
49Sacram051.6	Sacramento River above Timberon	F	F	T	N	T	N	T	Y	F	0	no	0	T	0.70
49Sacram060.3	Sacramento River above Scott Able Creek	F	F	T	N	T	N	T	Y	F	0.5	no	0	T	0.70
49Sacram061.8	Sacramento River at USGS Gage	F	F	T	N	T	N	T	N	F	0.5	no	0	T	0.70
49Sacram066.9	Sacramento River below Sacramento Lake	F	F	T	N	T	N	T	N	F	0.5	no	0	T	0.70
49Sacram068.7	Sacramento River above Sacramento Lake	F	F	T	N	T	N	T	N	T	0	no	0	T	0.70
49ScottA000.1	Scott Able Creek above Sacramento River	F	F	T	N	T	N	T	N	T	0	no	0	T	0.70
50Beaver000.1	Beaver Creek above El Porvenir Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	0.75
50CaveCr001.9	Cave Creek above Panchuela Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50CaveCr003.4	Cave Creek, 5 yds above FT 251 crossing	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50CowCre064.0	Cow Creek at FR 156 near Elk Mt.	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Dalton000.1	Dalton Creek above Pecos River	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50ElPorv000.1	El Porvenir Creek at HWY 65	F	T	T	N	T	N	T	Y	T	0	no	0	T	0.67
50ElPorv004.8	El Porvenir Creek at Christian Camp, USGS 0838007	F	F	T	N	T	N	T	Y	T	0	no	0	T	>0.75
50ElPorv012.6	El Porvenir Creek below Beaver and Holinger	F	F	T	N	T	N	T	N	T	0	no	0	T	0.76
50Gallin075.8	Gallinas River 1 mile above San Augustin	T	T	T	N	F	Y	T	Y	T	0	yes	1	F	0.60
50Gallin101.8	Gallinas River 0.25 mile below Las Vegas WWTF	F	F	T	N	F	Y	F	Y	T	0	yes	1	F	0.70
50Gallin102.1	Gallinas River below Las Vegas, above WWTF outfal	T	F	T	N	F	Y	F	Y	T	0	yes	1	F	0.70
50Gallin114.6	Gallinas River at Montezuma, below United World Co	T	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
50Gallin119.7	Gallinas River at Montezuma, USGS Gage 0838050	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.85
50Gallin131.8	Gallinas River at FS boundary, USGS gage 0838000	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.86
50Gallin141.9	Gallinas River at end of FR 263 above Burro Creek	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.88
50Glorie001.3	Glorieta Creek below ponds between HWY 63 and Pe	F	F	T	N	T	N	T	Y	F	0.5	no	0	F	0.70
50Glorie001.4	Glorieta Creek between ponds between HWY 63 and	F	F	T	N	T	N	T	Y	F	0.5	no	0	F	0.70
50Glorie001.6	Glorieta Creek above ponds between HWY 63 and P	F	F	T	N	T	N	T	Y	F	0.5	no	0	F	0.70
50HolyGh000.6	Holy Ghost Creek below campground	F	F	T	N	T	N	T	Y	T	0	yes	1		>0.75
50HolyGh002.1	Holy Ghost Creek above campground	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50HolyGh011.1	Holy Ghost Creek 200 yds below Spirit Lake	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Horset003.4	Horsethief Creek, 0.4 mi below FT 251 crossing	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75

Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of S	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
50JacksC008.4	Jack's Creek above jct of trails 257 & 259	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50PecosR512.6	Pecos River at Puerta de Luna bridge	T	F	F	Y	F	Y	T	Y	F	1	yes	1	F	0.70
50PecosR575.0	Pecos River below Santa Rosa Dam	T	T	T	N	F	Y	T	Y	F	1	yes	1	F	0.75-0.50
50PecosR687.4	Pecos River at El Cerrito (11 mi above Tecolote Cree	F	F	T	Y	T	N	T	N	T	0	yes	1	F	0.80
50PecosR739.5	Pecos River above Glorieta Creek	F	F	T	N	F	Y	T	Y	T	0	yes	1	F	0.75
50PecosR782.1	Pecos River west of Monastery Lake	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.83
50PecosR784.7	Pecos River below Lisboa Springs Hatchery diversion	F	T	T	N	T	N	T	Y	T	0	yes	1	F	>0.75
50PecosR787.8	Pecos River above Lisboa Springs Hatchery	F	T	T	N	T	N	T	Y	T	0	yes	1	T	0.83
50PecosR802.1	Pecos River above Terrero Bridge	F	F	T	N	T	N	T	Y	T	0	yes	1	T	>0.75
50PecosR803.7	Pecos River 400m above Willow Creek	F	F	T	N	T	N	T	Y	T	0	no	0	T	0.80
50PecosR828.4	Pecos River above Pecos Falls	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50RChima007.2	Rito de los Chimayosos 0.5 mi below lower Truchas L	F	F	T	N	T	N	T	N	T	0	no	0	T	0.80
50RioMor000.3	Rio Mora above Pecos Campground	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.84
50ROscur002.4	Rito Oscuro, 15 yds above FT 251	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50RPadre000.4	Rito del Padre 0.5 miles above Pecos River	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
50Tecolo042.3	Tecolote Creek at US I-25	T	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.60
50Tecolo066.9	Tecolote Creek at San Geronomo	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.68
50Tecolo076.3	Tecolote Creek below Blue Canyon Creek	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Tecolo083.3	Tecolote Creek below Wright Canyon	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Tecolo083.8	Tecolote Creek above Wright Canyon, below FR 291	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Tecolo084.0	Tecolote Creek above Wright Canyon and FR 291	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Tecolo084.5	Tecolote Creek above FR 291	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Tecolo085.8	Tecolote Creek 1 mile above FR 291	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Winsor006.9	Winsor Creek, 50m above Winsor trail/Stewart Lake t	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Wright000.7	Wright Canyon above FR 291	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Wright001.0	Wright Canyon 0.5 mile above Tecolote	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
50Wright002.6	Wright Canyon 1.2 miles above Tecolote	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
51AguaNe004.2	Agua Negra Creek below diversion 3 miles E. of Hwy	F	F	T	N	T	Y	T	N	T	0	no	0	T	>0.75
52PecosR483.8	Pecos River below Sumner Dam	F	F	T	Y	T	N	F	Y	F	1	yes	1	F	0.70
56Cotton025.9	Cottonwood Creek 5 mi west of hwy 285, James Funt	F	F	T	N	T	Y	T	N	T	0	no	0	T	<0.75
56PecosR194.6	Pecos River at Lake Arthur Falls	F	T	T	Y	F	Y	T	Y	F	1	yes	1	F	<0.50
56PecosR301.0	Pecos River at Highway 70/RR crossing	F	T	T	Y	F	Y	T	Y	F	1	yes	1	F	<0.50
57Corriz001.4	Carrizo Creek below Grindstone Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	0.80
57Grinds001.5	Grindstone Creek above New Reservoir	F	F	T	N	T	N	T	N	T	0	no	0	T	0.80
57RBonit000.8	Rio Bonito above Rio Ruidoso at NM HWY 70	T	T	T	Y	F	Y	T	Y	F	0	yes	1	T	0.47
57RBonit025.7	Rio Bonito near Salazar Canyon at County Road B-2	T	T	T	N	F	Y	T	N	F	0	yes	1	T	0.59
57RBonit053.1	Rio Bonito above NM HWY 48 near Angus	T	F	T	N	T	N	T	N	F	0.5	no	0	T	0.79
57RBonit061.1	Rio Bonito above Bonito Lake at FR 107	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.82
57RHondo0117.1	Rio Hondo at Picacho on Casa Linda Ranch	T	T	T	Y	F	Y	T	Y	F	0	yes	1	F	0.51
57RHondo130.7	Rio Hondo below Rio Ruidoso and Rio Bonito	F	F	T	Y	F	Y	T	Y	F	0	yes	1	F	0.68
57RRuido001.3	Rio Ruidoso at San Patricio, 1mi above Rio Bonito	F	T	T	Y	F	Y	T	N	T	0	yes	1	F	0.70
57RRuido019.8	Rio Ruidoso at Glencoe at FR 443	F	T	T	N	F	Y	T	N	T	0	yes	1	F	0.53
57RRuido030.1	Rio Ruidoso 50m above WWTP outfall	F	T	T	N	F	Y	F	Y	T	0	yes	1	F	0.52
57RRuido031.4	Rio Ruidoso below new WWTP	F	F	T	N	F	Y	F	Y	T	0	yes	1	F	0.55
57RRuido042.2	Rio Ruidoso 300m E. of closed WWTP	F	F	T	N	T	N	F	Y	T	0	yes	1	F	0.70
57RRuido044.4	Rio Ruidoso below Carrizo Creek	F	F	T	N	T	N	F	Y	T	0	yes	1	F	0.70
57RRuido045.1	Rio Ruidoso above Carrizo Creek	F	F	T	N	T	N	F	Y	T	0	yes	1	F	0.70
57RRuido048.1	Rio Ruidoso at HWY 37 Bridge	F	T	T	N	T	N	T	Y	T	0	yes	1	F	0.60
57RRuido052.5	Rio Ruidoso at reservation boundary	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.82
58RFelix114.1	Rio Felix at Special Area on Flying H Ranch	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
59AguaCh050.2	Agua Chiquita below Barrel Springs	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
59RPenas110.5	Rio Penasco near Drunken at NM HWY 24	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
59RPenas138.4	Rio Penasco at Cleve Ranch	F	F	T	N	T	Y	T	Y	T	0	yes	1	T	0.70
59RPenas170.4	Rio Penasco at Bluff Springs	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.70
60BlackR017.7	Black River at Harkey Crossing	F	F	T	N	F	Y	T	Y	T	0	yes	1	T	0.70
60BlueSp003.4	Blue Spring	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
60ChosaS004.5	Chosa Spring 2.8 miles above Black River, off Co Rd	F	F	T	N	T	Y	T	N	T	0	no	0	T	0.70
60DarkCa085.1	Dark Canyon at special area	F	F	T	N	T	N	T	N	T	0	no	0	T	0.70
60Grapev013.0	Grapevine Creek 5 miles above Black River (AKA Ge	F	F	T	N	T	N	T	N	T	0	no	0	T	0.70
60PecosR011.3	Pecos River near Red Bluff at County Road 725	T	T	F	Y	F	Y	T	N	F	1	yes	1	F	0.56
60PecosR050.2	Pecos River below Black River at Harroun Crossing	T	T	F	Y	F	Y	T	Y	F	1	yes	1	F	0.60
60PecosR093.2	Pecos River below Lower Tansil Dam	T	T	F	Y	F	Y	T	Y	F	1	yes	1	F	0.55
60PecosR124.7	Pecos River below Brantley Dam	F	T	T	Y	F	Y	T	Y	F	1	yes	1	F	<0.50
62Delawa001.0	Delaware River 0.5 mi above Pecos River	T	T	T	N	T	Y	T	N	T	0	yes	1		0.65
62Pecos002.7	Pecos River above Deleware River	F	T	T	Y	F	Y	T	Y	F	1	yes	1	F	<0.75
64Navajo009.7	Navajo River above Amargo Creek and below La Juit	F	F	T	Y	F	Y	T	Y	F	0.5	no	0	F	0.70
64Navajo015.5	Navajo River below Amargo Creek	F	F	T	Y	F	Y	T	Y	F	0.5	no	0	F	0.70
64Navajo023.3	Navajo River downstream from Barella Canyon and C	F	F	T	Y	F	Y	T	Y	F	0.5	no	0	F	0.70
64Navajo029.4	Navajo River at eastern boundary of Jicarilla Apache	F	T	T	Y	F	Y	T	Y	F	0.5	no	0	T	0.70
64SanJua111.0	San Juan River above Navajo Reservoir	F	F	F	Y	T	Y	T	N	T	0	yes	1		0.75
66Animas009.8	Animas River 5 miles above Farmington.	F	T	F	Y	F	Y	T	Y	T	0	yes	1	F	0.70
66Animas048.0	Animas River at Cedar Hill	F	F	T	Y	F	Y	T	Y	T	0	yes	1	F	0.70
66Animas054.6	Animas River at CO Border near Riverside	F	F	F	Y	F	Y	T	N	T	0	yes	1	F	0.70
67LaPlat033.8	La Plata River at CO Border	T	T	F	Y	F	Y	T	N	T	0	yes	1	F	0.70
75RPesca009.7	Rio Pescado at Hwy 602 above Zuni	F	F	T	Y	T	Y	T	N	F	0.5	no	0	F	0.70
75RPesca024.8	Rio Pescado below diversion	T	F	T	Y	T	Y	T	N	F	0.5	no	0	F	0.70
77BlackC000.1	Black Canyon above East Fork Gila River	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75

Site Name	Site Description	0 flow by diversion T or F	Channalized T or F	<10% ag. T or F	ag impact Y or N	<15 grazing T or F	Grazing impact Y or N	<5% urban T or F	urb impact Y or N	no dams T or F	impacN 0, 0.5, 1	on 303d list yes or no	303d Score	no NPDES T or F	Habitat Score
02DryCim003.2	Dry Cimarron River near Oklahoma Border	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.45
02DryCim049.8	Dry Cimarron River at Gage N of Guy	T	F	T	Y	F	Y	T	N	F	0.5	yes	1	T	0.49
02DryCim100.0	Dry Cimarron River near Oak Creek	T	F	T	N	F	Y	T	N	F	0.5	no	0	T	0.65
02DryCim103.6	Dry Cimarron River below Folsom Falls	T	F	T	N	T	N	T	N	T	0	no	0	T	0.65
04Canadi363.5	Canadian River at Gonzales Ranch, 4.5 miles NE of	F	F	F	Y	T	Y	T	N	T	0	no	0	F	<0.50
04Canadi402.9	Canadian River at Tinaja	T	T	T	N	F	Y	T	Y	T	0	no	0	F	<0.50
04Canadi409.4	Canadian River at Hebron	T	F	T	N	T	Y	T	Y	T	0	no	0	T	0.75-0.50
77BlackC016.8	Black Canyon Creek above Upper Black Canyon CG	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77BlackC028.3	Black Canyon Creek above Aspen Canyon	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Bobcat000.8	Bobcat Spring between Adobe spring and East Fork	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77Bonner002.4	Bonner Creek 1.5 miles above Black Canyon	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77CubCre005.6	Cub Creek 1 mile above Middle Fk Gila	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77Diamon038.2	Main Diamond Creek, 0.5 mile below junction of trails	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77Diamon039.3	Main Diamond Creek at junction of trails 40 &42 (nea	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77Diamon040.1	Main Diamond Creek, 0.5 mile above junction of trails	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77EFkGil000.1	East Fork Gila River at Grapevine	F	T	T	N	T	N	T	Y	F	0	yes	1	T	<0.75
77EFkGil000.5	East Fork Gila River above Grapevine CG	F	F	T	N	T	N	T	N	F	0	yes	1	T	>0.75
77EFkGil010.0	East Fork Gila River below Black Canyon	F	F	T	N	T	N	T	N	F	0	yes	1	T	>0.75
77EFkGil012.1	East Fork Gila River 1 mile above Black Canyon	F	F	T	N	T	Y	T	N	F	0	yes	1	T	0.70
77EFkGil035.4	East Fork Gila River below Taylor Creek	F	F	T	N	F	Y	T	N	F	0.5	yes	1	T	0.70
77GilaRi092.0	Gila River above Turkey Creek	F	T	T	N	T	N	T	N	F	0	no	0	T	>0.75
77GilaRi131.3	Gila River below East Fork Gila River	F	F	T	N	T	N	T	Y	F	0	no	0	T	>0.75
77Gilita000.1	Gilita Creek above Middle Fork Gila River (Snow Can	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.82
77Gobble001.9	Gobbler Canyon Creek above Mogollon Creek @ FT	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77IronCr000.1	Iron Creek above Middle Fork Gila River	F	F	T	N	T	N	T	N	T	0	no	0	T	0.79
77MFkGil000.5	Middle Fork Gila River above West Fork Gila River	F	F	T	N	T	N	T	N	F	0	yes	1	T	0.65
77MFkGil028.3	Middle Fork Gila River above Indian Creek	F	F	T	N	T	N	T	N	F	0	yes	1	T	>0.75
77MFkGil054.8	Middle Fork Gila River below Gilita Creek	F	F	T	N	T	N	T	N	F	0.5	no	0	T	0.72
77MFkGil055.0	Middle Fork Gila River above Gilita Creek	F	T	T	N	T	N	T	Y	F	1	no	0	T	0.72
77Mogoll029.9	Mogollon Creek at Bud's Hole	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Mogoll037.2	Mogollon Creek below Mouth of S F	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Mogoll038.8	Mogollon Creek below Trail Canyon	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Mogoll042.0	Mogollon Creek at Woodrow Canyon	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Taylor004.2	Taylor Creek below Wall Lake	F	F	T	N	F	Y	T	Y	F	0.5	yes	1	T	0.72
77TrailC000.1	Trail Canyon Creek above Mogollon Creek	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77Turkey001.8	Turkey Creek above Gila River at Wilderness Bounda	F	F	T	N	T	N	T	N	T	0	yes	1	T	>0.75
77WFkGil000.3	West Fork Gila River below Hot Springs, above East	F	F	T	N	T	N	T	Y	T	0	yes	1	T	0.70
77WFkGil010.0	West Fork Gila River 1.5 miles above Middle Fork	F	F	T	N	T	N	T	N	T	0	no	0	F	0.78
77WFkGil038.1	West Fork Gila River above White Creek	F	F	T	N	T	N	T	N	T	0	no	0	T	>0.75
77Willow000.6	Willow Creek above Gilita Creek	F	F	T	N	T	N	T	Y	T	0	no	0	T	>0.75
78GilaRi003.5	Gila River 1 mile west of Virden	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.70
78GilaRi026.1	Gila River below Red Rock at BLM wildlife area	F	F	T	N	F	Y	T	N	F	0	no	0	T	0.70
78GilaRi052.6	Gila River above Mangas Creek (near Bill Evans Lak	F	T	T	N	F	Y	T	Y	F	0	no	0	T	0.70
78GilaRi074.8	Gila River below Mogollon Creek	F	T	T	N	F	Y	T	N	F	0	no	0	T	0.70
79Clanto000.1	Clanton Draw on Gray Ranch		F	T	N	T	N	T	N	T	0	no	0	T	0.70
80Center000.1	Centerfire Creek at Forest Road 210	F	F	T	N	F	Y	T	N	T	0	yes	1	T	0.70
80Negrit000.1	Negrito Creek above the Tularosa River	F	F	T	N	T	N	T	N	T	0	yes	1	T	0.85
80SanFra028.6	San Francisco River below Glenwood at Hot Springs	F	F	F	Y	F	Y	T	Y	T	0	no	0	F	0.70
80SanFra049.1	San Francisco River below Alma	T	T	F	Y	F	Y	T	Y	T	0	no	0	F	0.60
80SanFra105.7	San Francisco River below Reserve	T	T	F	Y	F	Y	T	Y	T	0	no	0	F	0.65
80SanFra115.7	San Francisco River above Reserve at Gage	F	T	F	Y	F	Y	T	N	T	0	no	0	F	0.70
80SanFra154.1	San Francisco River at Luna	F	F	F	Y	F	Y	T	N	T	0	yes	1	T	0.75
80SanFra159.3	San Francisco River west of Luna	F	F	F	Y	F	Y	T	N	T	0	yes	1	T	0.75
80TroutC002.1	Trout Creek - Quality Area	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.85
80Tularo001.3	Tularosa River above San Francisco River	F	T	F	Y	F	Y	T	N	T	0	yes	1	T	0.65
80Tularo050.8	Tularosa River above Aragon	F	F	T	N	F	Y	T	N	T	0	no	0	T	0.75
80Whitew000.5	Whitewater Creek at Glenwood	F	T	T	N	F	Y	T	Y	T	0	yes	1	T	0.77
80WhiteW008.8	Whitewater Creek at Catwalk	F	T	T	N	T	N	T	N	T	0	yes	1	T	0.85

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
28BigTes013.2	Big Tesuque Creek, above Aspen Vista FR	0.67	10325.31	35.78	-105.8	1	High Small	Reference	1
50CaveCr001.9	Cave Creek above Panchuela Creek	5.76	9010.16	35.85	-105.7	1	High Small	Reference	1
50Horset003.4	Horsethief Creek, 0.4 mi below FT 251 crossing	2.3	7736.6	35.88	-105.71	1.17	High Small	Reference	1
50RChima007.2	Rito de los Chimayosos 0.5 mi below lower Truchas Lake	0.2	11355.54	35.97	-105.62	1.17	High Small	Reference	1
50CaveCr003.4	Cave Creek, 5 yds above FT 251 crossing	1.65	9747.85	35.86	-105.71	1.25	High Small	Reference	1
50ROscur002.4	Rito Oscuro 15 yds above FT 251	2.2	10098.92	35.85	-105.72	1.25	High Small	Reference	1
50RPadre000.4	Rio del Padre, 0.5 miles above Beattys Flat	11.61	9488.65	35.91	-105.6	1.25	High Small	Reference	1
29RResum002.4	Rito Resumedero above SPP Wilderness boundary	5.9	9022.75	36.11	-106.75	1.5	High Small	Reference	1
77Diamon038.2	Main Diamond Creek, 0.5 mile below trails 40 &43	4.6	7782.53	33.3	-107.86	1.5	High Small	Reference	1
28RCosti057.9	Rio Costilla above Costilla Reservoir	17.05	9403.35	36.9	-105.26	2	High Small	Reference	1
30SantaF057.4	Santa Fe River above McClure reservoirs	10.6	7930.18	35.69	-105.82	2	High Small	Reference	1
31RVacas017.4	Rio de Las Vacas, FR 71, above barrier; Santa Fe N F	13	9472.25	36.04	-106.82	2	High Small	Reference	1
50Winsor006.9	Winsor Creek, 50m above Winsor trail/Stewart Lake trail	1.4	10171.1	35.82	-105.73	2.25	High Small	Reference	1
50Wright000.6	Wright Canyon below FR 291	5.8	8596.22	35.69	-105.48	2.25	High Small	Reference	1
50Wright000.7	Wright Canyon above FR 291	5.7	8609.34	35.69	-105.48	2.25	High Small	Reference	1
07Sapell069.8	Sapello River at Mosimann Ranch	5.2	8218.91	35.82	-105.47	2.33	High Small	Reference	1
28RSanBa017.9	Rio Santa Barbara @ SB campground	34.1	8875.11	36.09	-105.61	2.33	High Small	Reference	1
50Tecolo072.0	Tecolote Creek below FR 291 above Wright Canyon	2.5	8583.1	35.69	-105.48	2.33	High Small	Reference	1
50Tecolo074.1	Tecolote Creek 1 mile above FR 291	1.4	8730.74	35.69	-105.49	2.33	High Small	Reference	1
28NFkRHo000.5	North Fork Rio Hondo atTaos Ski Valley Parking Lot	3.9	9439.44	36.6	-105.45	2.5	High Small	Reference	1
28RMedio013.3	Rio Lucero at USGS Gage on Taos Pueblo	4.86	8980.1	35.8	-105.83	2.5	High Small	Reference	1
29RGalli045.1	Rio Gallina at FR 76 near Gallina	7.2	7920.33	36.19	-106.84	2.5	High Small	Reference	1
50CowCre064.0	Cow Creek at FR 156 near Elk Mt.	3	10338.43	35.77	-105.58	2.5	High Small	Reference	1
50HolyGh002.1	Holy Ghost Creek above campground	14	7999.08	35.76	-105.69	2.5	High Small	Reference	1
50Tecolo071.6	Tecolote Creek below Wright Canyon	2.8	8468.26	35.69	-105.48	2.5	High Small	Reference	1
50Tecolo072.8	Tecolote Creek above FR 291	2	8494.51	35.69	-105.48	2.5	High Small	Reference	1
77Diamon039.3	Main Diamond Creek at trails 40 &42	2.8	8235.31	33.27	-107.84	2.5	High Small	Reference	1
77Diamon040.1	Main Diamond Creek, 0.5 mile above trails 40 &43	2.1	7972.83	33.27	-107.84	2.5	High Small	Reference	1
31RVacas012.6	Rio de Las Vacas 0.25 miles above Rd 126	17.5	8274.68	36	-106.81	2.67	High Small	Reference	1
50Gallin141.9	Gallinas River at end of FR 263 above Burro Creek	84	8435.45	35.72	-105.5	2.67	High Small	Reference	1
07Manuel020.9	Manuelitas Creek above Maestas Creek	3.92	7972.83	35.85	-105.46	2.83	High Small	Reference	1
50PecosR803.7	Pecos River 400m above Willow Creek	129.99	7775.97	35.76	-105.67	2.83	High Small	Reference	1
29RChama165.4	Chama River at NM HWY 17 bridge above Chama	106.15	7884.24	36.91	-106.57	3	High Small	Reference	1
29RChama166.4	Chama River below Chama Water Intake; Rio Arriba Co.	106.15	7917.05	36.92	-106.57	3	High Small	Reference	1
29RPuerc037.5	Rio Puerco de Chama at FR 103	14.8	8277.96	36.1	-106.73	3	High Small	Reference	1
30EFkFri000.1	Rito de Los Frijoles, East Fork	2.04	7992.52	35.83	-106.41	3	High Small	Reference	1
30WFkFri000.1	Rito de los Frijoles, West Fork	1.5	7982.67	35.83	-106.41	3	High Small	Reference	1
77Willow000.6	Willow Creek above Gilita Creek	16	7930.18	33.41	-108.58	3	High Small	Reference	1

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
77Diamon038.1	Main Diamond Creek, 0.5 mile below trails 40 &43	4.6	8642.15	33.28	-107.85	2.5	High Small	Intermediate	2
28RMedio017.5	Rio en Medio above ski area	0.4	10637	35.79	-105.79	3	High Small	Intermediate	2
28RCosti048.9	Rio Costilla above Comanche Creek	71.6	8970.25	36.84	-105.31	3.5	High Small	Intermediate	2
28RHondo014.8	Rio Hondo 1.5 miles above Valdez at USGS Gage	36.2	7641.45	36.54	-105.56	3.5	High Small	Intermediate	2
29RValle037.8	Rio Vallecito above NF boundary at Vallecitos Ranch	48	8783.24	36.64	-106.21	3.5	High Small	Intermediate	2
31EFkJem025.4	East Fork Jemez River near Cerro en Medio	5.8	8547.01	35.87	-106.45	3.5	High Small	Intermediate	2
31RVacas004.2	Rio de Las Vacas below private land (Sec. 24)	107.7	7880.96	36.94	-106.79	3.5	High Small	Intermediate	2
50ElPorv004.8	El Porvenir Creek at Christian Camp, USGS 08380075	22	7559.42	35.71	-105.42	3.5	High Small	Intermediate	2
28RHondo026.9	Rio Hondo above WWTP	8	9380.38	36.6	-105.45	3.67	High Small	Intermediate	2
31EFkJem010.1	East Fork Jemez River 2 mi above HWY4	51	8209.06	35.82	-106.56	3.67	High Small	Intermediate	2
30RFrijo018.4	Rito de Los Frijoles below West and East Fork	3.6	7926.9	35.83	-106.41	4	High Small	Intermediate	2
31RSanAn036.8	Rio San Antonio Creek, Baca Location-PFC	14.5	8625.75	35.96	-106.47	4	High Small	Intermediate	2
28RHondo022.4	Rio Hondo 2.4 miles below WWTP	12.53	8629.03	36.59	-105.49	4.17	High Small	Intermediate	2
31RSanAn005.3	Rio San Antonio Creek above La Cueva Cpgd.	93.7	7625.04	35.86	-106.64	4.17	High Small	Intermediate	2
29REncin009.7	Rito Encino at FR 100z	10.1	7821.9	36.15	-106.52	4.5	High Small	Intermediate	2
29RPoleo009.5	Rio Poleo at FR 103	2.6	7903.93	36.13	-106.72	4.5	High Small	Intermediate	2
31EFkJem015.0	East Fork Jemez River below HWY 4 @ Las Conchas CG	45	8419.05	35.81	-106.53	4.5	High Small	Intermediate	2
31Jarami008.0	Jaramillo Creek above Cerro Pinyon @ Rd B	9.2	8619.19	35.9	-106.49	4.5	High Small	Intermediate	2
49Sacram066.9	Sacramento River below Sacramento Lake	8.1	8346.86	32.75	-105.78	4.5	High Small	Intermediate	2
49Sacram068.7	Sacramento River above Sacramento Lake	5.3	8504.35	32.76	-105.78	4.5	High Small	Intermediate	2
49Sacrom060.3	Sacramento River above Scott Able Creek	18.7	7720.19	32.71	-105.74	4.5	High Small	Intermediate	2
28RedRiv028.5	Red River above Red River WWTP (HRG 23.1)	66.86	8645.44	36.71	-105.43	4.83	High Small	Intermediate	2
05Cimmar077.2	Cimarron River at Tolby Creek	157.42	8054.86	36.54	-105.22	5	High Small	Intermediate	2
28RCosti052.2	Rio Costilla at Valle Vidal Boundary	120.43	8891.51	36.84	-105.34	5	High Small	Intermediate	2
28RMedio016.9	Rio en Medio 200 m below ski area parking lot	0.7	10466.39	35.79	-105.8	5	High Small	Intermediate	2
29SextoC000.1	Sexto Creek above Rio Chamita	8.1	8317.34	36.98	-106.66	5	High Small	Intermediate	2
49Sacram061.8	Sacramento River at USGS Gage	14.3	7775.97	32.71	-105.75	5	High Small	Intermediate	2
50HolyGh000.6	Holy Ghost Creek below campground	15	7917.05	35.74	-105.68	5	High Small	Intermediate	2
28RHondo026.7	Rio Hondo 300 yards below WWTP	8.2	9370.54	36.6	-105.46	5.33	High Small	Intermediate	2
05Cieneg021.9	Cieneguilla Creek below Crooked Creek	6.74	8566.69	36.36	-105.29	5.5	High Small	Intermediate	2
28Cabres005.4	Cabresto Creek	34.28	7890.81	36.73	-105.55	5.5	High Small	Intermediate	2
28Columb000.1	Columbine Creek above Red River	17.51	7864.56	36.68	-105.51	5.5	High Small	Intermediate	2
29RChami017.8	Rio Chamita above Sexto Creek	6.94	8317.34	36.98	-106.66	5.5	High Small	Intermediate	2
05Sixmil001.4	Sixmile Creek at USGS Gage	11.3	8222.19	36.52	-105.27	5.67	High Small	Intermediate	2
28RedRiv027.8	Red River above Molycorp, below WWTP	66.6	8547.01	36.71	-105.44	5.83	High Small	Intermediate	2
28RCosti055.5	Rio Costilla below Costilla Reservoir	54.6	9331.16	36.87	-105.28	6	High Small	Stressed	3
29RCanji039.4	Rio Canjilon at diversion above NF boundary	24	8041.73	36.51	-106.4	6	High Small	Stressed	3

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
29RChama161.1	Chama River at U.S. HWY 84 bridge below Chama	120.67	7766.13	36.88	-106.58	6	High Small	Stressed	3
30Pajari018.5	Pajarito Creek 0.3 miles above HWY 501	1.25	7910.49	35.87	-106.36	6	High Small	Stressed	3
28RedRiv025.4	Red River above Hanson Creek (below Fawn Lakes CG)	72.06	8251.72	36.7	-105.47	6.17	High Small	Stressed	3
29RChama157.0	Chama River below Rio Chamita (@Unser's)	168	7690.66	36.85	-106.59	6.17	High Small	Stressed	3
28RCosti025.6	Rio Costilla at USGS Gage above Costilla	195	7953.14	36.97	-105.51	6.5	High Small	Stressed	3
28RedRiv031.1	Red River below Bitter Creek	53.04	8455.14	36.71	-105.4	6.5	High Small	Stressed	3
28RGuaje021.7	Rio Guaje above reservoir; Santa Fe NF	3.6	8258.28	35.93	-106.36	6.5	High Small	Stressed	3
29Cannon002.4	Cannones Creek above HWY 84 (near Chama)	28.29	7651.29	36.81	-106.57	6.5	High Small	Stressed	3
29RChami016.1	Rio Chamita 1 mile above Nabor Creek	16.97	8209.06	36.96	-106.64	6.5	High Small	Stressed	3
59RPenas170.4	Rio Penasco at Bluff Springs	12	8084.38	32.83	-105.74	6.5	High Small	Stressed	3
05Cieneg019.3	Cieneguilla Creek at Angel Fire Road	11.98	8455.14	36.38	-105.28	6.83	High Small	Stressed	3
29RChami008.4	Rio Chamita above Rd 29 bridge on Seargent WLA	36.6	7789.09	36.92	-106.59	7	High Small	Stressed	3
28RedRiv017.1	Red River at Goat Hill Cpgd.	105	7680.82	36.69	-105.54	7.17	High Small	Stressed	3
28RedRiv024.1	Red River above Molycorp (USGS Staff Gauge)	72.61	8202.5	36.7	-105.48	7.17	High Small	Stressed	3
28LosAla021.0	Los Alamos Canyon below Reservoir spillway	6.22	7598.8	35.88	-106.35	7.5	High Small	Stressed	3
29RChami002.8	Rio Chamita 10m above Chama WWTP outfall	46.14	7766.13	36.88	-106.59	7.83	High Small	Stressed	3
05Moreno003.7	Moreno Creek above U.S. HWY 64	72.06	8218.91	36.55	-105.27	8	High Small	Stressed	3
28RedRiv019.6	Red River below Molycorp, above Columbine	98	7854.71	36.68	-105.51	8.17	High Small	Stressed	3
29RChami004.0	Rio Chamita above WWTP at State HWY 29	35.43	7913.77	36.92	-106.59	8.17	High Small	Stressed	3
05Cieneg018.5	Cieneguilla Creek below Angel Fire lagoons	15.53	8415.77	36.4	-105.28	8.33	High Small	Stressed	3
29RChami002.6	Rio Chamita 25m below WWTP outfall	46.14	7762.85	36.88	-106.59	8.5	High Small	Stressed	3
05Cieneg016.5	Cieneguilla Creek at County Road B-25	20.61	8379.67	36.41	-105.28	8.83	High Small	Stressed	3
07MoraRi170.9	Mora River at Chacon below Luna and Lujan Creeks	57	7851.43	36.12	-105.38	8.83	High Small	Stressed	3
05Cieneg006.3	Cieneguilla Creek at Gage above Eagle Nest Lake	68.94	8189.38	36.48	-105.26	9.17	High Small	Stressed	3
28RedRiv024.9	Red River at Zwergel Dam	28.9	8891.51	36.67	-105.38	3.5	High Small	2.75	?
80Negrit000.1	Negrito Creek above the Tularosa River	192.69	5797.53	33.68	-108.74	3	Low Large	Reference	1
77GilaRi131.3	Gila River below East Fork Gila River	1526.86	5544.89	33.18	-108.21	3.5	Low Large	Reference	1
31RGuada008.2	Rio Guadalupe above tunnels	236.5	6053.45	35.73	-106.76	3.83	Low Large	Reference	1
50PecosR782.1	Pecos River west of Monastery Lake	222.98	7021.34	35.59	-105.68	3.83	Low Large	Reference	1
77EFkGil000.5	East Fork Gila River below Franks	1027	5554.73	33.18	-108.21	4	Low Large	Reference	1
77EFkGil010.0	East Fork Gila River below Black Canyon	1016	5715.5	33.18	-108.17	4	Low Large	Reference	1
78GilaRi026.1	Gila River @ Red Rock	3210	4006.1	32.65	-108.85	5	Low Large	Reference	1
77WFkGil000.3	West Fork Gila River above East Fork	509.29	5587.54	33.18	-108.2	5.5	Low Large	Reference	1
78GilaRi074.8	Gila River above Gila	2015	4619.65	33.04	-108.53	6	Low Large	Reference	1
31RGuada000.1	Rio Guadalupe above Jemez River	273.57	5659.73	35.67	-106.74	6.33	Low Large	Reference	1
31JemezR046.9	Jemez River below Jemez Springs School	473.35	5620.35	35.65	-106.74	6.5	Low Large	Reference	1
77EFkGil000.1	East Fork Gila River at Grapevine	1027	5554.73	33.18	-108.21	6.5	Low Large	Reference	1
31JemezR049.2	Jemez River above Rio Guadalupe	200	5669.57	35.67	-106.73	6.67	Low Large	Reference	1

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
05Cimmar050.8	Cimarron River at USGS gage by Philmont	294	6614.5	36.52	-104.98	5	Low Large	Intermediate	2
02DryCim103.6	Dry Cimarron River below Folsom Falls	231.58	6145.31	36.87	-103.88	5.5	Low Large	Intermediate	2
29RChama089.5	Chama River below Rio Gallina	1695	6401.23	36.37	-106.68	5.83	Low Large	Intermediate	2
31JemezR064.6	Jemez River above USFS Ranger Station	174.96	6283.12	35.79	-106.69	5.83	Low Large	Intermediate	2
29RChama090.1	Chama River above Rio Cebolla	1145	6512.79	36.46	-106.71	6	Low Large	Intermediate	2
29RChama143.8	Rio Chama 2mi below La Puente Gage	482	7050.87	36.67	-106.66	6	Low Large	Intermediate	2
29RChama147.1	Chama River 4 km below Chama WWTP (G&F Area)	225.09	7460.99	36.78	-106.57	6.5	Low Large	Intermediate	2
77EFkGil035.4	East Fork Gila River below Taylor Creek	715.51	6155.16	33.3	-108.12	6.5	Low Large	Intermediate	2
04Vermej073.7	Vermejo River below York Canyon	202.9	7080.4	36.81	-104.9	6.67	Low Large	Intermediate	2
28RedRiv005.3	Red River below Red River fish hatchery	185	7136.18	36.68	-105.66	6.83	Low Large	Intermediate	2
04Canadi409.4	Canadian River at Hebron	229	6240.46	36.79	-104.46	7	Low Large	Intermediate	2
29RChama118.1	Chama River below Rio Nutrias	860	6693.24	36.55	-106.72	7	Low Large	Intermediate	2
64Navajo023.3	Navajo River below Barella Canyon and CO border	172	6512.79	36.97	-107.08	7	Low Large	Intermediate	2
78GilaRi052.6	Gila River above Mangas Creek (near Bill Evans Lake)	2619	4393.26	32.87	-108.59	7.17	Low Large	Intermediate	2
06Canadi274.8	Canadian River at State HWY 120 bridge	3865.37	4885.41	35.92	-104.35	7.33	Low Large	Intermediate	2
29ROjoCa026.1	Rio Ojo Caliente at NM HWY 414	445.8	5216.79	36.31	-106.05	7.5	Low Large	Intermediate	2
50PecosR739.5	Pecos River above Glorieta Creek	242	6804.79	35.53	-105.67	7.5	Low Large	Intermediate	2
64Navajo009.7	Navajo River above Amargo Creek	255.2	6581.69	36.95	-107.06	7.5	Low Large	Intermediate	2
64Navajo015.5	Navajo River below Amargo Creek	439.16	6555.44	36.95	-107.07	7.5	Low Large	Intermediate	2
64Navajo029.4	Navajo River at E boundary of Jicarilla Apache Res	230.71	6863.85	36.97	-106.96	7.5	Low Large	Intermediate	2
80SanFra028.6	San Francisco River below Glenwood at Hot Springs	1653	4560.59	33.25	-108.88	7.5	Low Large	Intermediate	2
31JemezR058.9	Jemez River below Jemez Springs WWTP	184.46	5984.54	35.74	-106.71	7.67	Low Large	Intermediate	2
28RPuebT000.1	Rio Pueblo de Taos 400m above Rio Grande	418.1	6135.47	36.34	-105.73	8	Low Large	Intermediate	2
30SantaF000.1	Santa Fe River 100m above Rio Grande	262	5229.91	35.6	-106.34	8	Low Large	Intermediate	2
45Mimbre085.7	Mimbres River above Gallinas Creek	290	5466.15	32.73	-107.87	8	Low Large	Intermediate	2
57RBonit025.7	Rio Bonito near Salazar Canyon at County Road B-23	254	5866.43	33.53	-105.44	8	Low Large	Intermediate	2
57RHondo130.7	Rio Hondo below Rio Ruidoso and Rio Bonito	620	5183.98	33.38	-105.27	8	Low Large	Intermediate	2
62Delawa001.0	Delaware River 0.5 mi above Pecos River	689	2847.91	32.03	-104.03	8	Low Large	Intermediate	2
66Animas054.6	Animas River at CO Border near Riverside	1097.19	5909.08	36.98	-107.87	8	Low Large	Intermediate	2
80SanFra115.7	San Francisco River above Reserve at Gage	350	5751.59	33.74	-108.77	8	Low Large	Intermediate	2
80Tularo001.3	Tularosa River above San Francisco River	651.6	5685.97	33.68	-108.77	8	Low Large	Intermediate	2
45Mimbre104.8	Mimbres River at USGS Gage at Mimbres	216	5922.21	32.86	-107.97	8.5	Low Large	Intermediate	2
57RRuido019.8	Rio Ruidoso at Glencoe at FR 443	201.9	5718.78	33.41	-105.45	8.5	Low Large	Intermediate	2
31JemezR043.1	Jemez River at Owl Springs Road on Jemez Pueblo	565.62	5535.05	35.62	-106.73	8.67	Low Large	Intermediate	2
07Sapell000.1	Sapello River above Mora River (HWY 85)	300	6496.38	35.79	-104.98	8.83	Low Large	Intermediate	2
06Canadi348.3	Canadian River 0.25 mile below Cimarron River	2850	5626.92	36.3	-104.49	9	Low Large	Stressed	3
28RPuebT003.5	Rio Pueblo de Taos 4km above Rio Grande	404.1	6634.18	36.35	-105.71	9	Low Large	Stressed	3
30SantaF003.7	Santa Fe River above Cochiti Pueblo Hatchery	257.5	5279.13	35.59	-106.31	9	Low Large	Stressed	3

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
57RRuido001.3	Rio Ruidoso at San Patricio, 1mi above Rio Bonito	295.5	5197.1	33.39	-105.28	9	Low Large	Stressed	3
57RRuido031.4	Rio Ruidoso below new WWTP	156.3	6135.47	33.36	-105.55	9	Low Large	Stressed	3
04Vermej045.4	Vermejo River at Dawson	301	6365.14	36.68	-104.78	9.5	Low Large	Stressed	3
30SantaF012.7	Santa Fe River below mine at USGS Gage	231	5498.96	35.55	-106.23	9.5	Low Large	Stressed	3
30SantaF015.3	Santa Fe River 0.5 mi upstream Lonestar Mine	220	5640.04	35.55	-106.2	9.5	Low Large	Stressed	3
30SantaF021.2	Santa Fe River below La Cienega	215.5	5856.59	35.56	-106.15	9.5	Low Large	Stressed	3
29RChama122.6	Chama River below El Vado Reservoir	793	6811.36	36.59	-106.73	9.67	Low Large	Stressed	3
50Gallin101.8	Gallinas River 0.25 mile below Las Vegas WWTF	172	6417.64	35.57	-105.21	9.67	Low Large	Stressed	3
57RRuido030.1	Rio Ruidoso 50m above WWTP outfall	156	6119.07	33.36	-105.55	9.67	Low Large	Stressed	3
05Cimmar044.5	Cimarron River at Springer (@ City Park)	335.74	6197.81	36.47	-104.83	9.83	Low Large	Stressed	3
66Animas009.8	Animas River 5 miles above Farmington.	1345.72	5377.56	36.75	-108.14	9.83	Low Large	Stressed	3
02DryCim049.8	Dry Cimarron River at USGS Gage north of Guy, NM	545	4878.85	36.99	-103.42	10	Low Large	Stressed	3
28RPuebT013.2	Rio Pueblo de Taos near Los Cordovas	198.6	6726.05	36.39	-105.63	10	Low Large	Stressed	3
50Gallin102.1	Gallinas River below Las Vegas, above WWTF outfall	172	6424.2	35.57	-105.21	10	Low Large	Stressed	3
67LaPlat033.8	La Plata River at CO Border	331	5958.3	37	-108.19	10	Low Large	Stressed	3
28RedRiv009.8	Red River at HWY 3 bridge in Questa	158.74	7267.42	36.69	-105.61	10.17	Low Large	Stressed	3
80SanFra049.1	San Francisco River below Alma	1543	4878.85	33.37	-108.91	10.17	Low Large	Stressed	3
80SanFra105.7	San Francisco River below Reserve	434	5682.69	33.68	-108.78	10.17	Low Large	Stressed	3
28RPuebT008.2	Rio Pueblo de Taos belwo WWTP near gage	380	6660.43	36.38	-105.67	10.33	Low Large	Stressed	3
02DryCim003.2	Dry Cimarron River near Oklahoma Border	1023.63	4350.61	36.92	-103.03	10.5	Low Large	Stressed	3
04Vermej002.9	Vermejo River above I-25	558.2	5889.4	36.5	-104.57	10.5	Low Large	Stressed	3
45Mimbre094.6	Mimbres River at NM HWY 90 in San Lorenzo	262	5646.6	32.79	-107.92	10.5	Low Large	Stressed	3
57RBonit000.8	Rio Bonito above Rio Ruidoso at NM HWY 70	298	5216.79	33.39	-105.28	10.5	Low Large	Stressed	3
29RChama019.3	Chama River at NM HWY 233 (other landmark?)	2477.36	5794.25	36.17	-106.18	11	Low Large	Stressed	3
57RHondo0117.	Rio Hondo at Picacho on Casa Linda Ranch	1032	4937.91	33.35	-105.15	11	Low Large	Stressed	3
28RedRiv012.7	Red River above Hatchery	180	7106.65	36.69	-105.65	11.17	Low Large	Stressed	3
50Gallin075.8	Gallinas River 1 mile above San Augustin	312.54	5925.49	35.47	-105.16	11.17	Low Large	Stressed	3
28Embudo000.8	Embudo Creek above Rio Grande at USGS Gage	312	5872.99	36.21	-105.91	11.5	Low Large	Stressed	3
29RChama050.4	Chama River below Abiquiu Dam at USGS Gage	2147	6050.16	36.24	-106.42	11.83	Low Large	Stressed	3
29RChama004.5	Chama River at Hwy 285 at Gage (on San Juan Res.?)	3144	5653.16	36.07	-106.11	12	Low Large	Stressed	3
77TrailC000.1	Trail Canyon Creek above Mogollon Creek	2.8	6726.05	33.22	-108.54	2	Low Small	Reference	1
30Pajari016.3	Pararito Creek above Bulldog Gulch	2.55	7375.69	35.86	-106.34	2.5	Low Small	Reference	1
57Grinds001.5	Grindstone Creek above New Reservoir	1.84	6847.45	33.32	-105.68	2.5	Low Small	Reference	1
77Gobble001.9	Gobbler Canyon Creek above Mogollon Creek @ FT 221	3	6709.65	33.22	-108.57	2.5	Low Small	Reference	1
77IronCr000.1	Iron Creek above Middle Fork Gila River	17.46	7054.15	33.39	-108.48	2.5	Low Small	Reference	1
50Dalton000.1	Dalton Creek above Pecos River	10.9	7290.38	35.66	-105.69	2.67	Low Small	Reference	1
77Mogoll029.9	Mogollon Creek at Bud's Hole	1.22	6693.24	33.23	-108.62	3	Low Small	Reference	1
77Mogoll037.2	Mogollon Creek below Mouth of S F	19.84	6552.16	33.21	-108.56	3	Low Small	Reference	1

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
77Mogoll038.8	Mogollon Creek below Trail Canyon	12.34	6745.74	33.22	-108.54	3	Low Small	Reference	1
77Mogoll042.0	Mogollon Creek at Woodrow Canyon	9.1	7073.84	33.2	-108.51	3	Low Small	Reference	1
57RRuido052.5	Rio Ruidoso at reservation boundary	18.7	7185.39	33.34	-105.73	3.33	Low Small	Reference	1
57Corriz001.3	Carrizo Creek below Grindstone Creek	24.5	6693.24	33.32	-105.67	3.5	Low Small	Reference	1
29Polvad009.8	Polvadera Creek at Forest Road 422	19.08	6627.62	36.12	-106.44	3.67	Low Small	Reference	1
77BlackC000.1	Black Canyon above East Fork Gila River	105.91	5751.59	33.17	-108.16	3.67	Low Small	Reference	1
50Gallin119.7	Gallinas River at Montezuma, USGS Gage 08380500	84	6867.13	35.65	-105.32	3.83	Low Small	Reference	1
30Pajari012.6	Pajarito Canyon below Twomile Canyon	2.7	6932.75	35.85	-106.3	4	Low Small	Reference	1
30RFrijo000.1	Rito de los Frijoles above Rio Grande	19.8	5341.47	35.69	-106.3	4	Low Small	Reference	1
29RioOso004.7	Rio del Oso - REMAP	39	5915.64	36.09	-106.19	4.5	Low Small	Reference	1
49Sacram051.6	Sacramento River above Timberon	35.7	7021.34	32.65	-105.7	4.5	Low Small	Reference	1
79Clanto000.1	Clanton Draw on Gray Ranch	14.93	5085.55	31.53	-108.88	4.5	Low Small	Reference	1
45Mimbre127.4	Mimbres River at Cooney Campground	29	6837.6	33.04	-107.98	4.67	Low Small	Reference	1
29RioOso004.5	Rio del Oso, outside exclosure (downstream)	38.6	5889.4	36.09	-106.18	5.17	Low Small	Reference	1
59RPenas110.5	Rio Penasco near Drunken at NM HWY 24	5.1	5236.48	32.88	-105.25	5.5	Low Small	Reference	1
30Pajari015.8	Pajarito Canyon below junction with Bulldog Gulch	2.78	7319.91	35.86	-106.33	3.5	Low Small	Intermediate	2
30Pajari016.1	Pajarito Canyon below Starmer Gulch	1.54	7395.37	35.86	-106.34	3.5	Low Small	Intermediate	2
77MFkGil054.8	Middle Fork Gila River, Gila National Forest	129.97	7267.42	33.41	-108.61	3.5	Low Small	Intermediate	2
77Gilita000.1	Gilita Creek above Middle Fork Gila River	36.26	7270.7	33.41	-108.49	3.67	Low Small	Intermediate	2
50Gallin131.8	Gallinas River at FS boundary, USGS gage 08380000	21	7480.68	35.7	-105.42	3.83	Low Small	Intermediate	2
31RCebol005.6	Rio Cebolla at FR 376 crossing near Lake Fork Canyon	42	7460.99	35.86	-106.76	4.17	Low Small	Intermediate	2
30Bulldo000.1	Bulldog Gulch above junction with Pajarito Canyon	0.1	7300.23	35.86	-106.33	4.5	Low Small	Intermediate	2
50ElPorv000.1	El Porvenir Creek at HWY 65	25.97	7254.29	35.69	-105.38	4.83	Low Small	Intermediate	2
30CanVal003.7	Canyon de Valle 2.6 miles above Water Canyon	4.12	7303.51	35.85	-106.33	5	Low Small	Intermediate	2
30CanVal004.0	Canyon de Valle 2.8 miles above Water Canyon at Spring	4.25	7372.41	35.85	-106.33	5	Low Small	Intermediate	2
77BlackC016.8	Black Canyon Creek above Upper Black Canyon CG	48.09	6755.58	33.18	-108.03	5	Low Small	Intermediate	2
80Tularo050.8	Tularosa River above Aragon	94	6755.58	33.89	-108.52	5	Low Small	Intermediate	2
29RioOso008.8	Rio del Oso, within exclosure	33.1	6220.78	36.08	-106.22	5.17	Low Small	Intermediate	2
31RCebol000.1	Rio Cebolla above Rio de las Vacas	67	7201.8	35.82	-106.79	5.17	Low Small	Intermediate	2
29Canada005.6	Canada del Potrero at Rd 44 near El Rito	10.3	7474.12	36.4	-106.2	5.5	Low Small	Intermediate	2
29Coyote005.6	Coyote Creek at Forest Road 316	34.09	7136.18	36.13	-106.62	5.5	Low Small	Intermediate	2
48ThreeR057.1	Three Rivers at U.S.F.S. campground	6.5	6312.64	33.4	-105.89	5.5	Low Small	Intermediate	2
80Center000.1	Centerfire Creek at Forest Road 210	135.68	6670.27	33.83	-108.84	5.67	Low Small	Intermediate	2
30CanVal004.2	Canyon de Valle 2.9 miles above Water Canyon	4.63	7362.56	35.85	-106.33	6	Low Small	Intermediate	2
29Abiqui001.8	Abiquiu Creek at U.S. HWY 84 bridge	43	6076.41	36.2	-106.32	6.33	Low Small	Intermediate	2
28RHondo012.1	Rio Hondo at Valdez bridge	39.1	7415.06	36.53	-105.58	6.5	Low Small	Intermediate	2
28Sandia011.2	Sandia Canyon 7 miles above Rio Grande, below TA 53	1.3	6788.39	35.87	-106.27	6.5	Low Small	Intermediate	2
33RPuerc464.3	Rio Puerco at Vallicitos	8.45	7339.6	36.04	-106.92	6.5	Low Small	Intermediate	2

Appendix D. Revised Site Scores

Table D-1.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort
50Glorie001.3	Glorieta Creek below ponds below HWY 63	32.2	6837.6	35.54	-105.68	6.67	Low Small	Intermediate	2
50Glorie001.4	Glorieta Creek between ponds below HWY 63	32.2	6834.32	35.54	-105.68	6.67	Low Small	Intermediate	2
50Glorie001.6	Glorieta Creek above ponds below HWY 63	32.2	6837.6	35.54	-105.68	6.67	Low Small	Intermediate	2
50Gallin114.6	Gallinas River at Montezuma, below lagoons	87	6726.05	35.65	-105.28	6.83	Low Small	Intermediate	2
50Tecolo065.6	Tecolote Creek below Blue Canyon Creek	16.8	7270.7	35.65	-105.44	7.17	Low Small	Intermediate	2
50Tecolo066.9	Tecolote Creek at San Geronimo	54.1	6758.86	35.58	-105.39	4.33	Low Small	Stressed	3
28Sandia012.1	Sandia Canyon 7.5 mi above Grande	1	7034.46	35.87	-106.29	7	Low Small	Stressed	3
28Sandia015.8	Sandia Canyon 10.1 miles above Rio Grande (in wetlands)	0.6	7237.89	35.88	-106.31	7	Low Small	Stressed	3
28Sandia016.1	Sandia Canyon 10.3 miles above Rio Grande (in wetlands)	0.7	7237.89	35.88	-106.31	7	Low Small	Stressed	3
57RRuido044.4	Rio Ruidoso below Carrizo Creek	60.1	6539.03	33.32	-105.65	7	Low Small	Stressed	3
57RRuido045.1	Rio Ruidoso above Carrizo Creek	52.1	6575.12	33.33	-105.65	7	Low Small	Stressed	3
77Taylor004.2	Taylor Creek below Wall Lake	97.9	6394.67	33.35	-108.08	7	Low Small	Stressed	3
28RHondo000.1	Rio Hondo above Rio Grande	73.6	6453.73	36.54	-105.71	7.17	Low Small	Stressed	3
80Whitew000.5	Whitewater Creek at Glenwood	51.9	4704.95	33.32	-108.88	7.17	Low Small	Stressed	3
80SanFra154.1	San Francisco River at Luna	67.5	7139.46	33.82	-108.99	7.33	Low Small	Stressed	3
02DryCim100.0	Dry Cimarron River near Oak Creek	136.22	6014.07	36.89	-103.86	7.5	Low Small	Stressed	3
57RRuido042.2	Rio Ruidoso 300m E. of closed WWTP	116	6430.76	33.33	-105.62	7.5	Low Small	Stressed	3
28LosAla010.5	Los Alamos Canyon below TA 53	11.38	6512.79	35.87	-106.24	8	Low Small	Stressed	3
48ThreeR047.6	Three Rivers at County Road A-30	44.9	5243.04	33.36	-105.96	8	Low Small	Stressed	3
57RRuido048.1	Rio Ruidoso at HWY 37 Bridge	23.5	6791.67	33.33	-105.68	8	Low Small	Stressed	3
80Tularo029.6	Rio Tularosa at HYW 70 near Alamogordo	116	5567.86	33.15	-105.89	8	Low Small	Stressed	3
28RedRiv014.5	Red River at Junbug Cpgd.	113	7464.28	36.7	-105.57	8.17	Low Small	Stressed	3
07MoraRi132.9	Mora River at Cleveland Church	119.55	7342.88	35.99	-105.37	8.5	Low Small	Stressed	3
28RHondo003.9	Rio Hondo at HWY 3 Bridge	65.9	6752.3	36.54	-105.67	8.5	Low Small	Stressed	3
07Sapell044.4	Sapello River below Manuelitas Creek (HWY 518)	140.2	6945.88	35.77	-105.25	8.83	Low Small	Stressed	3
28RSanBa000.1	Rio Santa Barbara above conf. Rio del Pueblo	60	7165.7	36.2	-105.73	8.83	Low Small	Stressed	3
29ElRito000.7	El Rito Creek 0.5 mile above Chama River	133.41	5872.99	36.2	-106.22	9	Low Small	Stressed	3
28DPCany012.4	DP Canyon near airport	8.8	6913.07	35.87	-106.26	9.5	Low Small	Stressed	3
30SantaF032.8	Santa Fe River below WWTP	47	6269.99	35.63	-106.09	9.83	Low Small	Stressed	3
28RPuebT015.8	Rio Pueblo de Taos near Lower Ranchito	90.5	6798.23	36.4	-105.61	10	Low Small	Stressed	3
30SantaF028.3	Santa Fe River 2 mi. below WWTP (@ CRd 56)	93	6135.47	35.6	-106.12	10	Low Small	Stressed	3
50Tecolo042.3	Tecolote Creek at US I-25	120.5	6342.17	35.46	-105.28	10.17	Low Small	Stressed	3

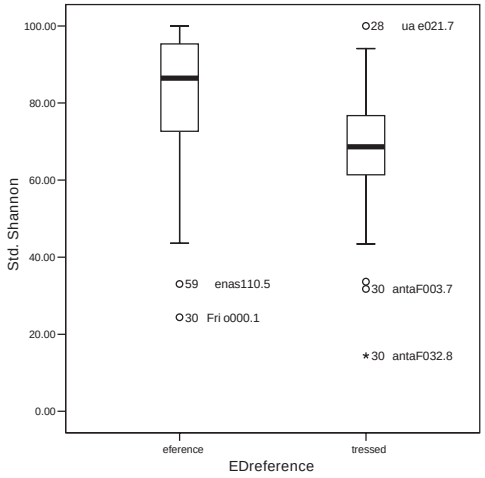
Appendix D. Revised Site Scores, continued.

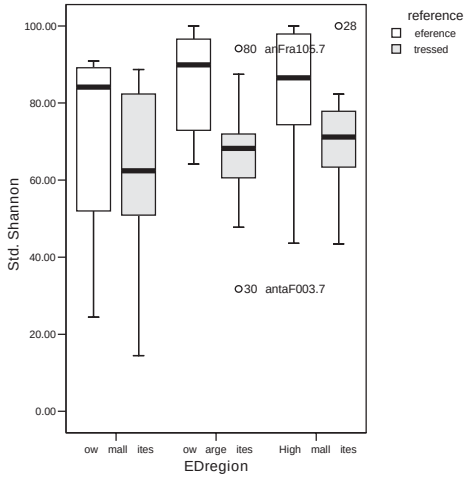
Table D-2. Detailed changes.

Station ID	Site Description	Watershed area	elevation	Lat	Long	Score	Bioregion	Condition	Sort	Comments	Adjustment/Impact
77Willow000.6	Willow Creek above Gilita Creek	16	7930.18	33.41	-108.58	3	High Small	Reference	1	adjust score to intermidiate	Rd/campground
29RValle037.8	Rio Vallecito above NF boundary at Vallecitos Ranch	48	8783.24	36.64	-106.21	3.5	High Small	Intermediate	2	adjust score to reference	only grazing
31EFkJem025.4	East Fork Jemez River near Cerro en Medio	5.8	8547.01	35.87	-106.45	3.5	High Small	Intermediate	2	adjust score to reference	only elk grazing
28RCosti055.5	Rio Costilla below Costilla Reservoir	54.6	9331.16	36.87	-105.28	6	High Small	Stressed	3	adjust score to intermediate	
29RCanji039.4	Rio Canjilon at diversion above NF boundary	24	8041.73	36.51	-106.4	6	High Small	Stressed	3	adjust score to intermediate	
29RChama161.1	Chama River at U.S. HWY 84 bridge below Chama	120.67	7766.13	36.88	-106.58	6	High Small	Stressed	3	adjust score to intermediate	
30Pajari018.5	Pajarito Creek 0.3 miles above HWY 501	1.25	7910.49	35.87	-106.36	6	High Small	Stressed	3	adjust score to intermediate	
28RedRiv025.4	Red River above Hanson Creek (below Fawn Lakes CG)	72.06	8251.72	36.7	-105.47	6.17	High Small	Stressed	3	adjust score to intermediate	
29RChama157.0	Chama River below Rio Chamita (@Unser's)	168	7690.66	36.85	-106.59	6.17	High Small	Stressed	3	adjust score to intermediate	
29Cannon002.4	Cannones Creek above HWY 84 (near Chama)	28.29	7651.29	36.81	-106.57	6.5	High Small	Stressed	3	adjust score to intermediate	only elk grazing
29RChami008.4	Rio Chamita above Rd 29 bridge on Seargent WLA	36.6	7789.09	36.92	-106.59	7	High Small	Stressed	3	adjust score to intermediate	only elk grazing & band destablization
28RedRiv024.9	Red River at Zwergel Dam	28.9	8891.51	36.67	-105.38	3.5	High Small	2.75	?	adjust score to intermediate	Rd
80Negrit000.1	Negrito Creek above the Tularosa River	192.69	5797.53	33.68	-108.74	3	Low Large	Reference	1	should be moved to low sm Reference	
78GilaRi052.6	Gila River above Mangas Creek (near Bill Evans Lake)	2619	4393.26	32.87	-108.59	7.17	Low Large	Intermediate	2	adjust score to stressed	thick fines
30SantaF000.1	Santa Fe River 100m above Rio Grande	262	5229.91	35.6	-106.34	8	Low Large	Intermediate	2	adjust score to stressed	WWTP/mine/listed
57RHondo130.7	Rio Hondo below Rio Ruidoso and Rio Bonito	620	5183.98	33.38	-105.27	8	Low Large	Intermediate	2	adjust score to stressed	
06Canadi348.3	Canadian River 0.25 mile below Cimarron River	2850	5626.92	36.3	-104.49	9	Low Large	Stressed	3	adjust score to intermediate	
29RioOso004.7	Rio del Oso - REMAP	39	5915.64	36.09	-106.19	4.5	Low Small	Reference	1	adjust score to intermediate	
29RioOso004.5	Rio del Oso, outside exclosure (downstream)	38.6	5889.4	36.09	-106.18	5.17	Low Small	Reference	1	adjust score to intermediate	
28RHondo000.1	Rio Hondo above Rio Grande	73.6	6453.73	36.54	-105.71	7.17	Low Small	Stressed	3	adjust score to intermediate	

Appendix E – Comparisons of Metrics by Location

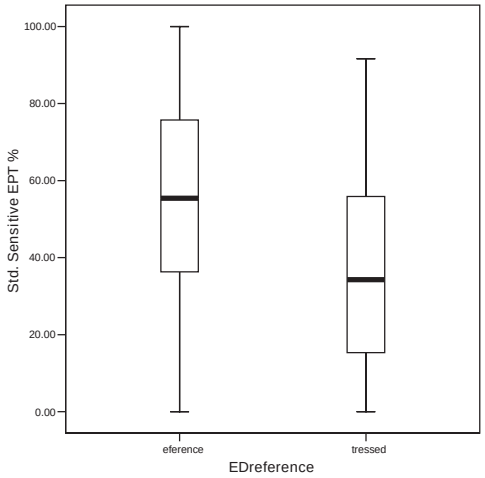
Ta onomic Composition

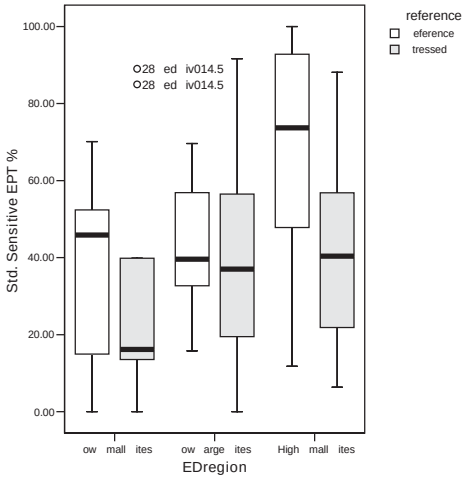




73.47

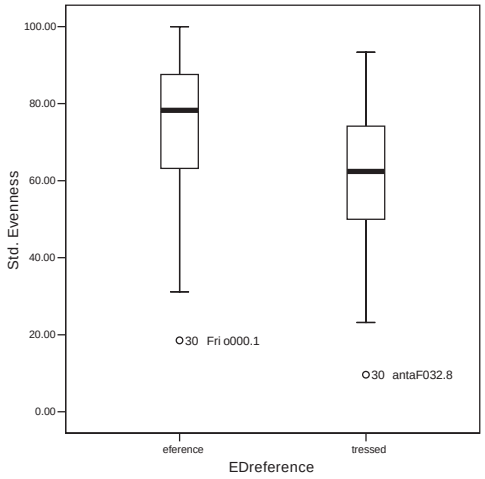
ll 66.67 79.17 68.75
oc 33.33 79.17 68.75

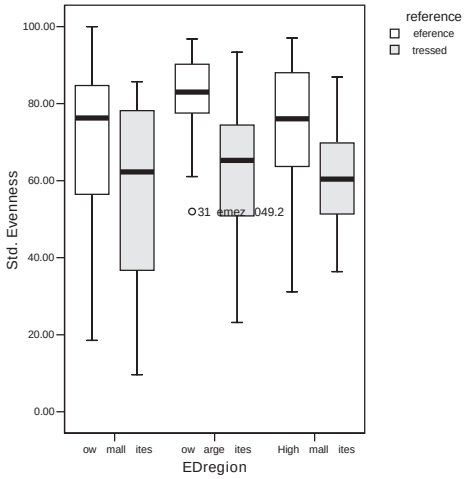




51.02

ll 55.46 50.00 50.00
oc 44.44 50.00 68.75





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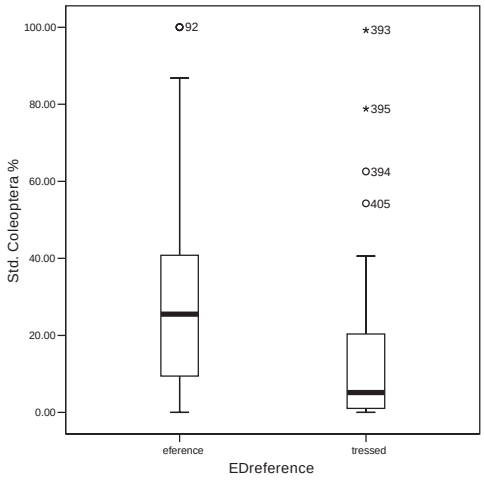
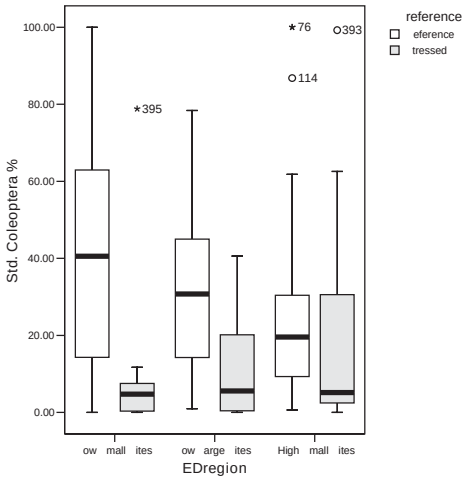
oc 44.44 83.33 62.50





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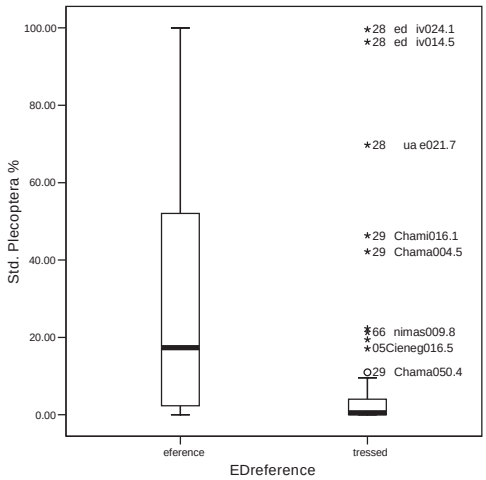

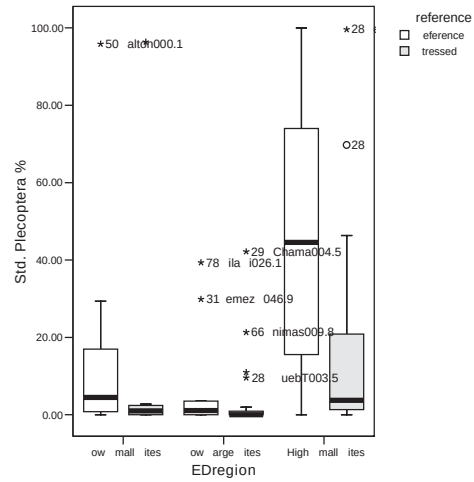

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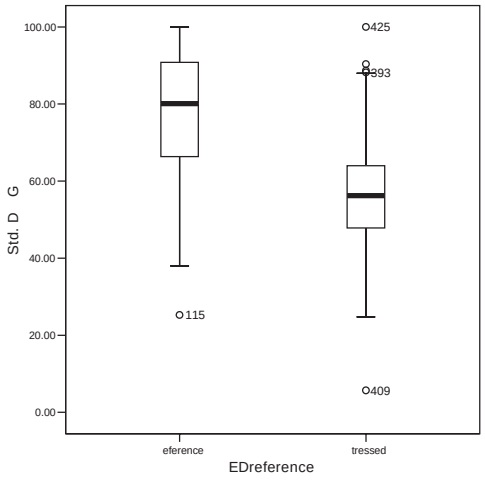

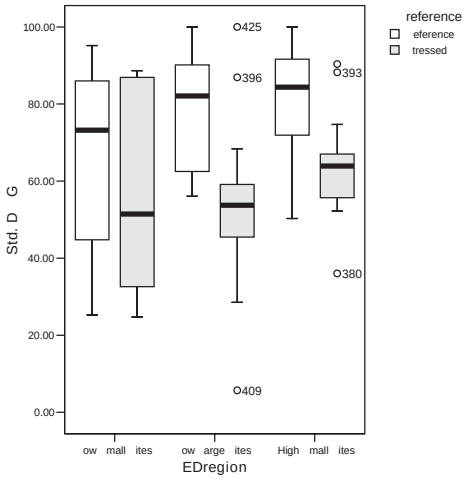

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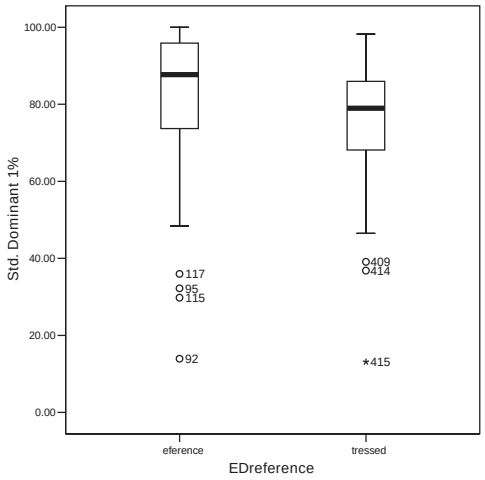
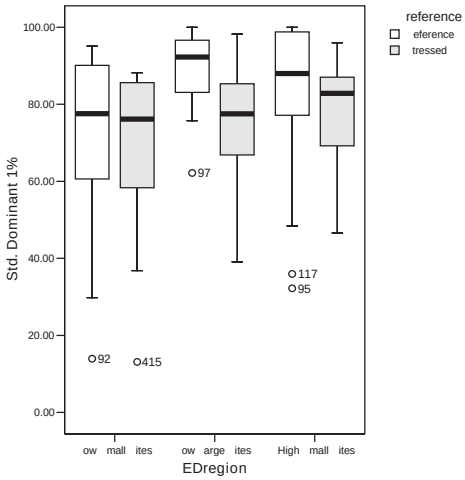
oc	33.33	87.5	81.25





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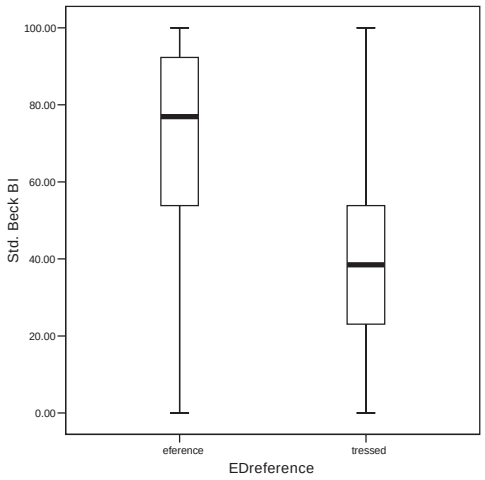
oc 33.33 70.83 37.50



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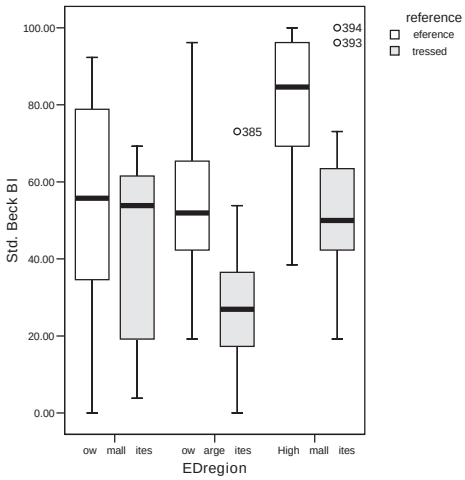

ll 55.56 95.83 62.5
oc 44.44 83.33 81.25

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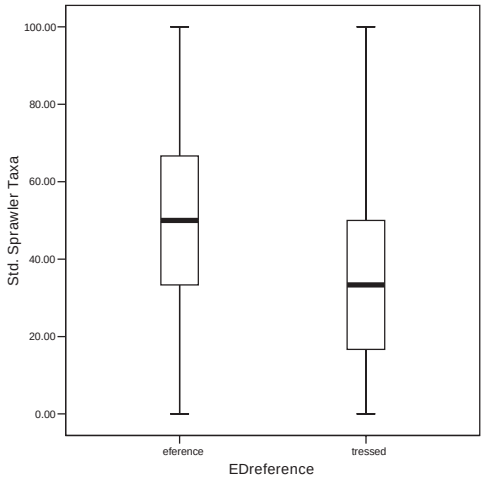

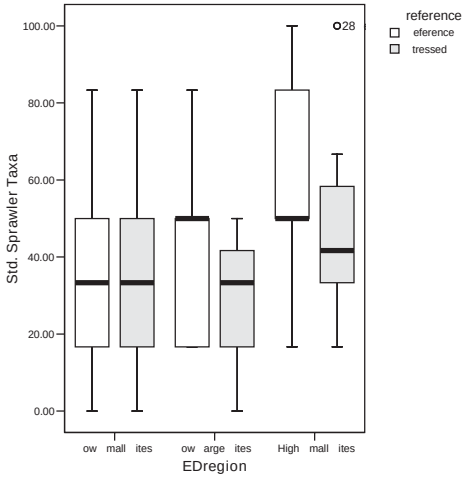

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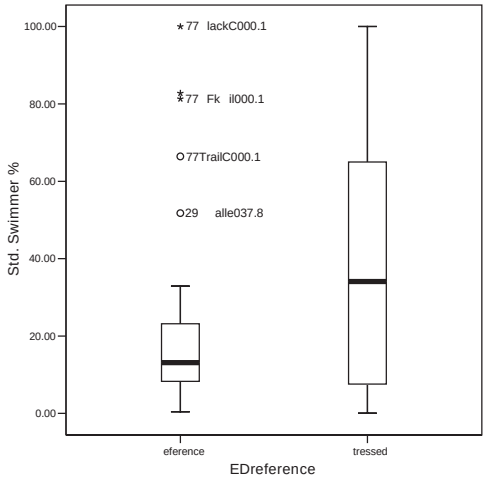

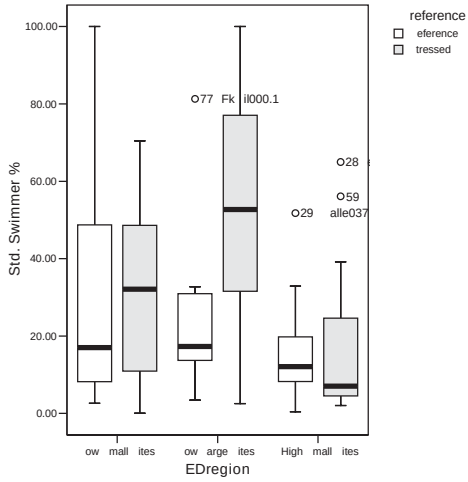

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oc	91.67

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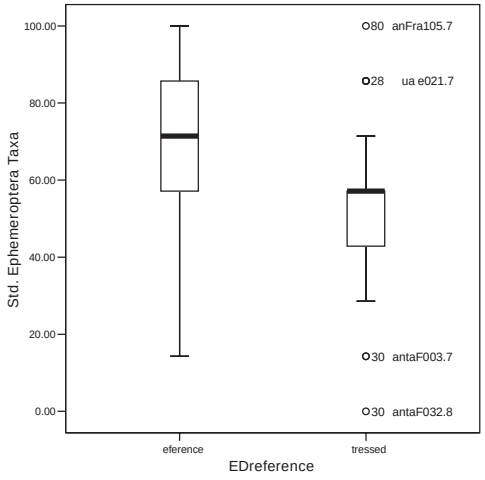

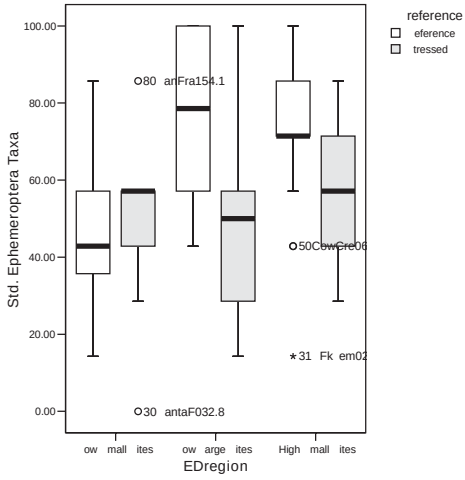

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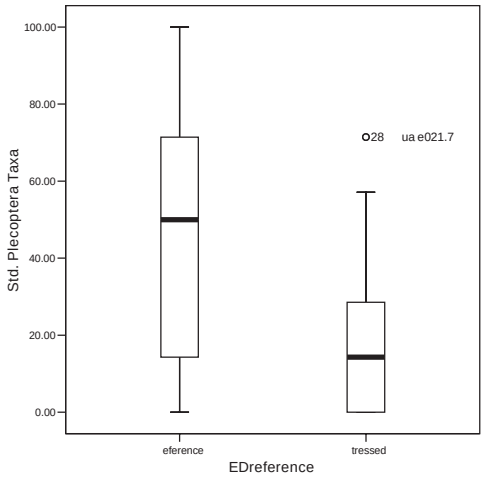

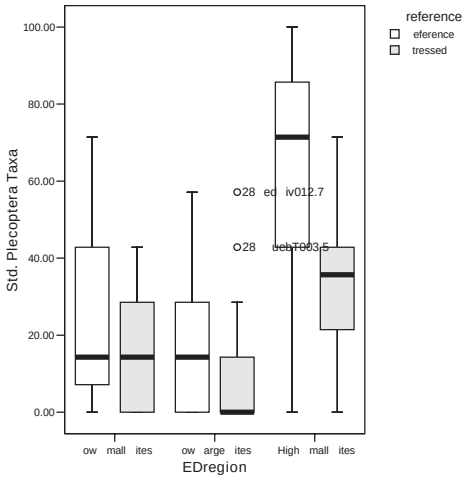

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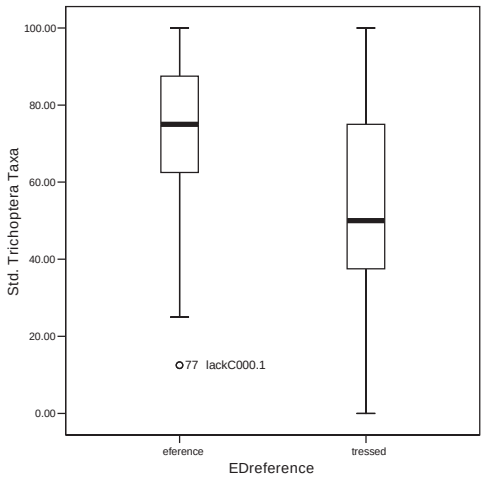
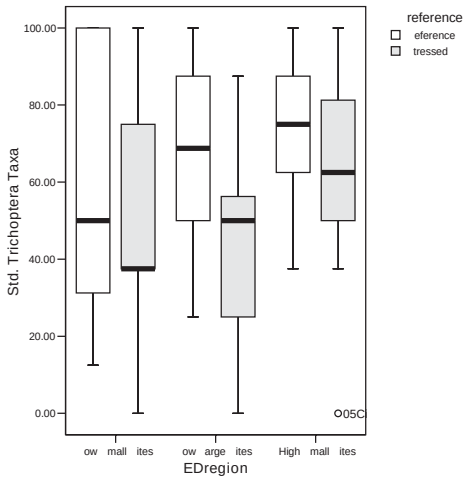
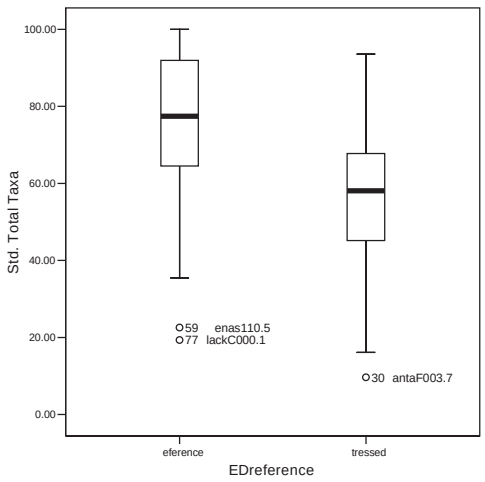
oc	44.44	70.83	68.75

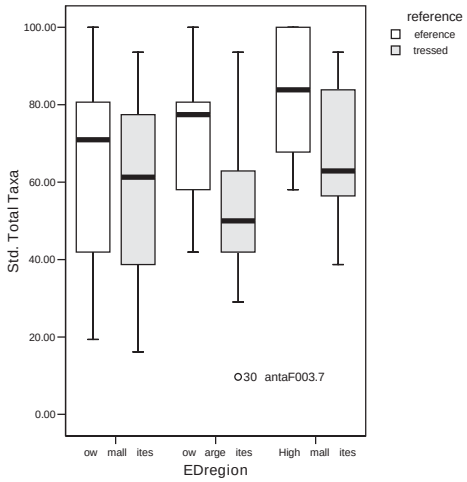




71.43

ll	77.78	79.17	62.50
oc	55.56	75.00	62.50

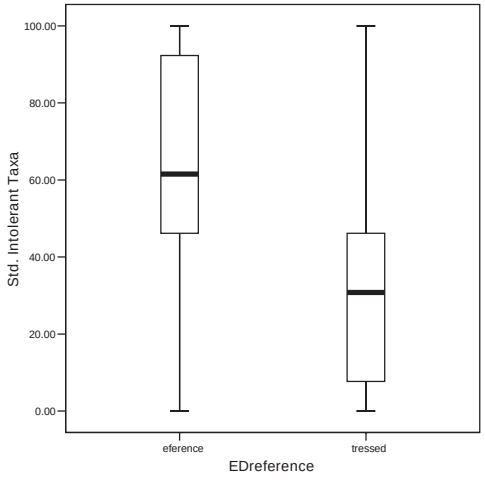


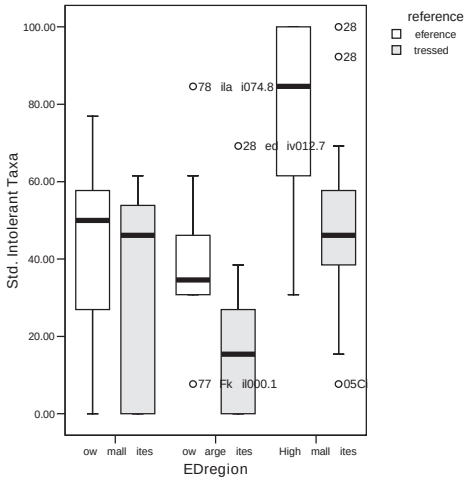


73.47

ll 66.67 87.50 56.25
oc 33.33 70.83 56.25

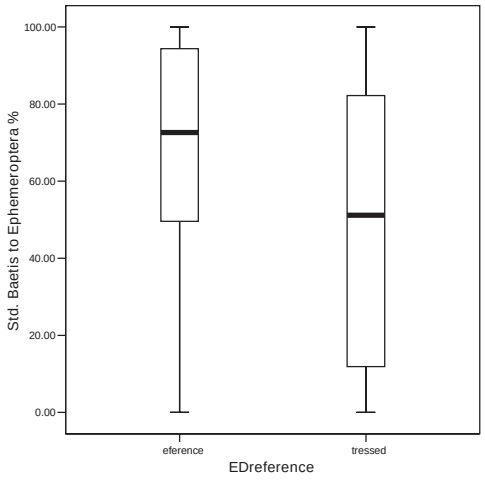
Tolerance

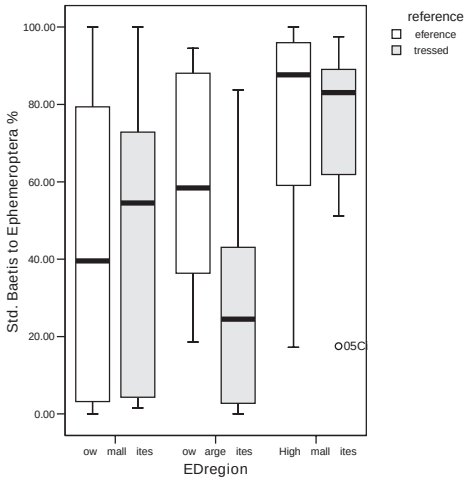




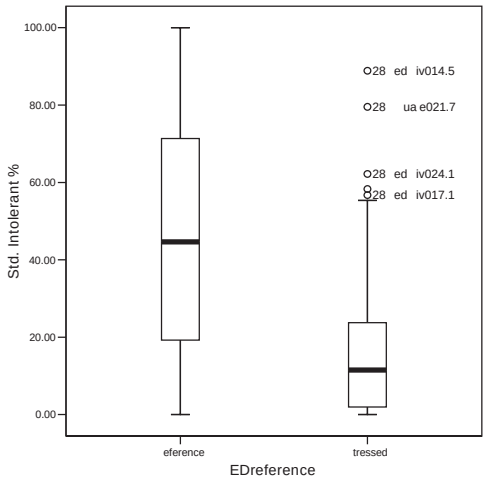
79.59

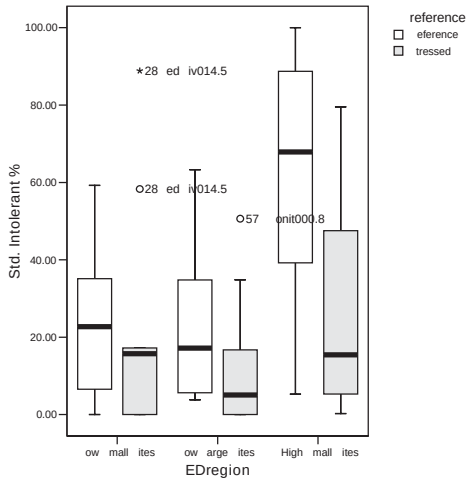
ll	66.67	83.33	62.50
oc	44.44	79.17	81.25





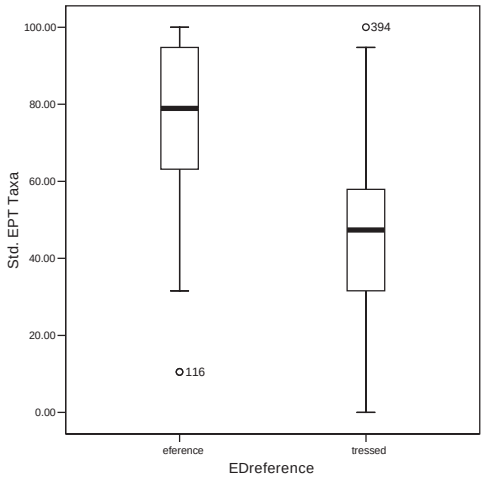
ll	79.17	
oc	66.67	

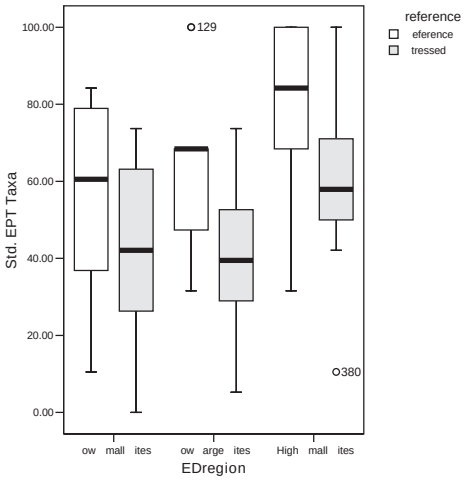




71.43

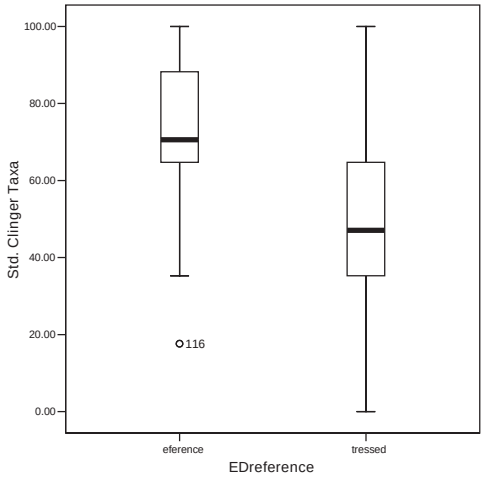
ll	33.33	79.17	56.25
oc	33.33	50.00	68.75

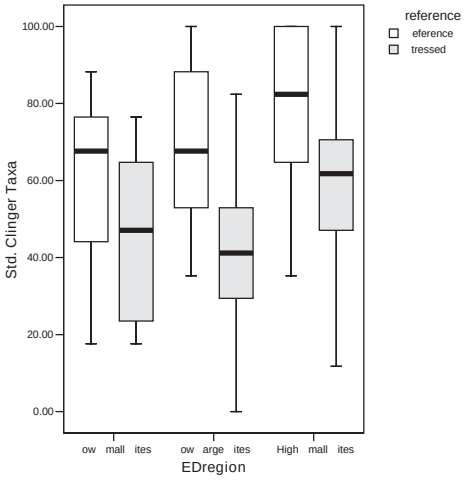




81.63

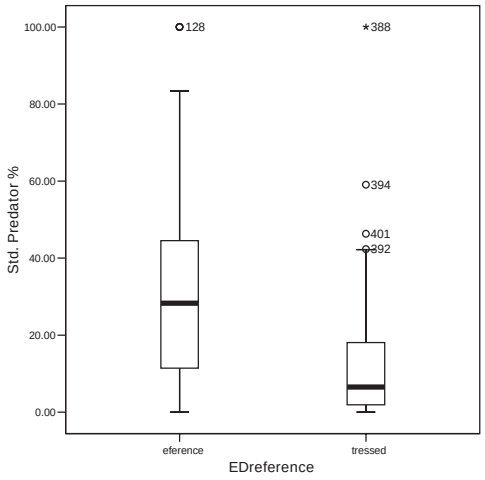
ll 77.78 91.67 68.75
oc 44.44 75.00 75.00

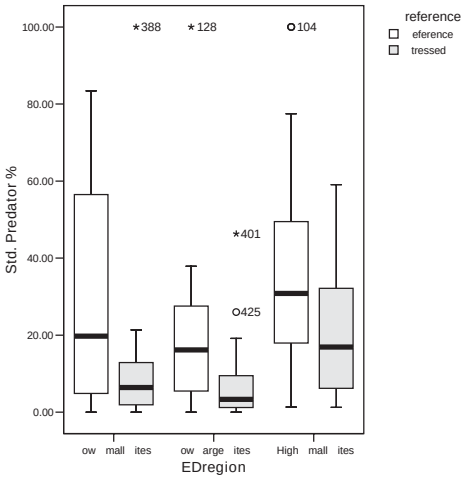




79.59

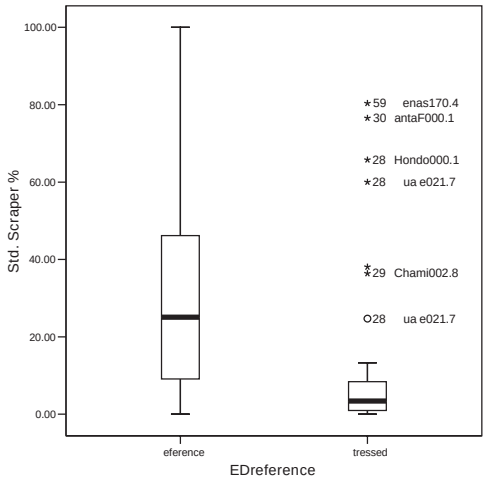
ll 77.78 87.5 68.75
oc 44.44 66.67 68.75

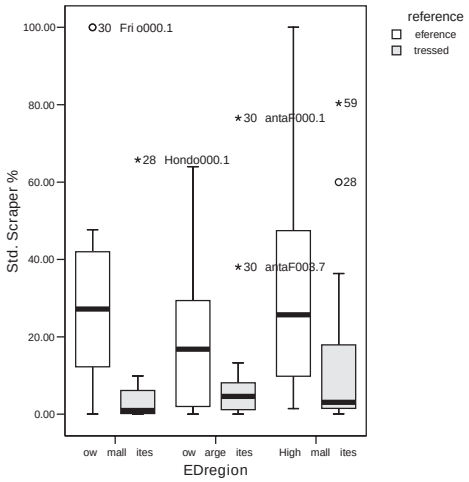




65.31

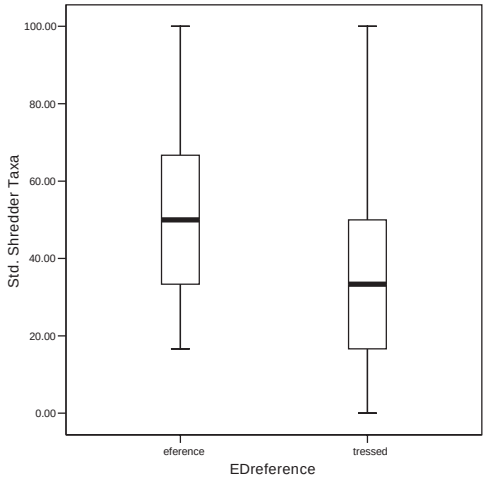
ll 66.67 87.50 31.25
oc 33.33 62.50 50.00

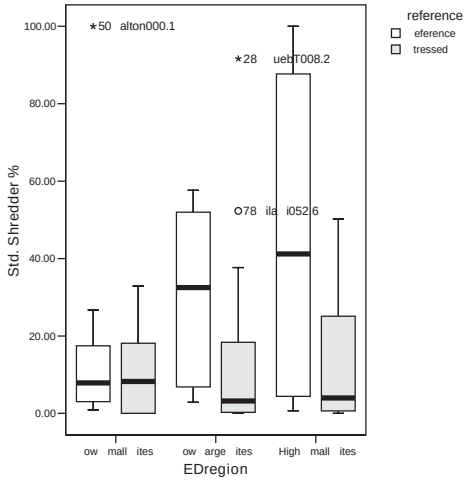




75.51

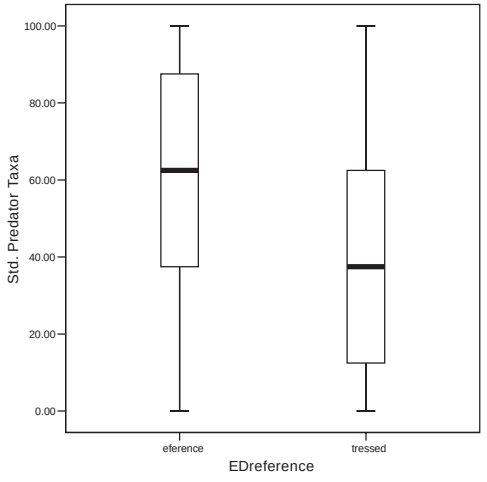
ll 77.78 79.17 68.75
oc 88.89 37.50 68.75

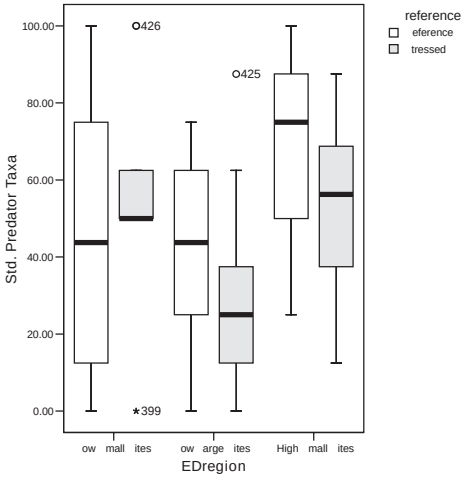




61.22

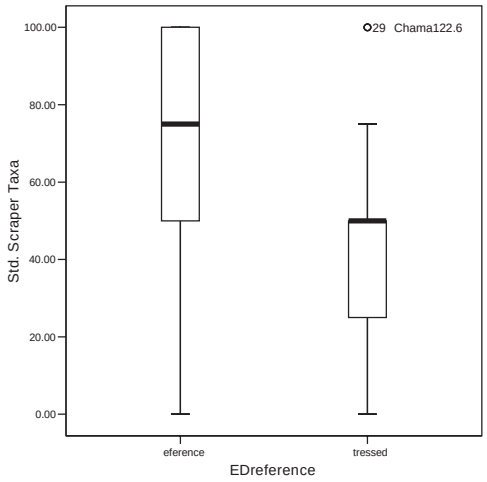
ll 55.56 75.00 43.75
oc 44.44 100.0 43.75

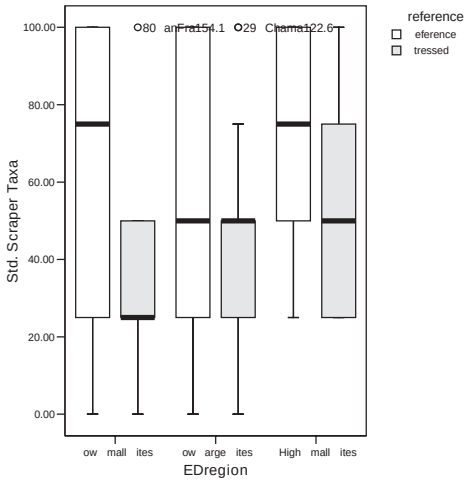




59.18

ll 22.22 83.33 43.75
oc 22.22 70.83 50.00





77.55

ll 88.89 79.17 68.75
oc 66.67 45.83 68.75

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Appendix F: Master Taxa List

Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Hirudinea	69290	568832	Annelida		Clitellata	Oligochaeta		
Oligochaeta	68422	568832	Annelida		Clitellata	Oligochaeta		
Erpobdella	69444	568847	Annelida		Clitellata	Oligochaeta	Arhynchobdellida	Erpobdelliformes
Limnodrilus	68638	68585	Annelida		Clitellata	Oligochaeta	Haplotaxida	Tubificina
Naididae	68854	68509	Annelida		Clitellata	Oligochaeta	Haplotaxida	Tubificina
Ophidonais serpentina	68996	68995	Annelida		Clitellata	Oligochaeta	Haplotaxida	Tubificina
Tubificidae	68585	68509	Annelida		Clitellata	Oligochaeta	Haplotaxida	Tubificina
Lumbriculidae	68440	68439	Annelida		Clitellata	Oligochaeta	Lumbriculida	
Amphizoidae	111952	109226	Arthropoda		Insecta		Coleoptera	Adephaga
Dytiscidae	111963	109226	Arthropoda		Insecta		Coleoptera	Adephaga
Dytiscus	112118	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Hydaticus	112172	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Agabus	111966	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Hydroporus	112390	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Oreodytes	112314	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Laccophilus	112278	111963	Arthropoda		Insecta		Coleoptera	Adephaga
Dineutus	112711	112653	Arthropoda		Insecta		Coleoptera	Adephaga
Gyrinus	112654	112653	Arthropoda		Insecta		Coleoptera	Adephaga
Haliplidae	111857	109226	Arthropoda		Insecta		Coleoptera	Adephaga
Haliplus	111858	111857	Arthropoda		Insecta		Coleoptera	Adephaga
Peltodytes	111923	111857	Arthropoda		Insecta		Coleoptera	Adephaga
Noteridae	112606	109226	Arthropoda		Insecta		Coleoptera	Adephaga
Lampyridae	113835	113829	Arthropoda		Insecta		Coleoptera	Polyphaga
Chrysomelidae	114509	114496	Arthropoda		Insecta		Coleoptera	Polyphaga
Curculionidae	114666	114654	Arthropoda		Insecta		Coleoptera	Polyphaga
Helichus	114006	113999	Arthropoda		Insecta		Coleoptera	Polyphaga
Helichus striatus	114017	114006	Arthropoda		Insecta		Coleoptera	Polyphaga
Postelichus immsi	193693	193691	Arthropoda		Insecta		Coleoptera	Polyphaga
Elmidae	114093	113998	Arthropoda		Insecta		Coleoptera	Polyphaga
Cleptelmis	114164	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Dubiraphia	114126	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Heterelmis	114237	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Heterlimnius corpulentus	114169	114167	Arthropoda		Insecta		Coleoptera	Polyphaga
Microcylloepus	114146	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Narpus	114142	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Optioservus	114177	114093	Arthropoda		Insecta		Coleoptera	Polyphaga
Zaitzevia parvula	114206	114205	Arthropoda		Insecta		Coleoptera	Polyphaga
Psephenidae	114069	113998	Arthropoda		Insecta		Coleoptera	Polyphaga
Psphenus	114070	114069	Arthropoda		Insecta		Coleoptera	Polyphaga
Hydrochus	113166	112811	Arthropoda		Insecta		Coleoptera	Polyphaga
Helochares	113150	112811	Arthropoda		Insecta		Coleoptera	Polyphaga

Appendix F: Master Taxa List

Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Hydrophilidae	112811	112752	Arthropoda		Insecta		Coleoptera	Polyphaga
Berosus	112812	112811	Arthropoda		Insecta		Coleoptera	Polyphaga
Cymbiodyta	113017	112811	Arthropoda		Insecta		Coleoptera	Polyphaga
Hydrobius	113196	112811	Arthropoda		Insecta		Coleoptera	Polyphaga
Tropisternus	112938	112811	Arthropoda		Insecta		Coleoptera	Polyphaga
Poduridae	99239	99238	Arthropoda		Insecta		Collembola	Arthropleona
Copepoda	85257	83677	Arthropoda		Maxillipoda		Copepoda	
Agathon	121230	121229	Arthropoda		Insecta		Diptera	
Chaetocladius	128520	128457	Arthropoda		Insecta		Diptera	
Saetheria	129735	129229	Arthropoda		Insecta		Diptera	
Tribelos	129820	129229	Arthropoda		Insecta		Diptera	
Stempellinella	129969	129872	Arthropoda		Insecta		Diptera	
Ephydridae	146893	131750	Arthropoda		Insecta		Diptera	
Dolichopodidae	136824	131750	Arthropoda		Insecta		Diptera	Brachycera
Empididae	135830	131750	Arthropoda		Insecta		Diptera	Brachycera
Clinocera	135849	135844	Arthropoda		Insecta		Diptera	Brachycera
Chelifera	136305	136304	Arthropoda		Insecta		Diptera	Brachycera
Hemerodromia	136327	136304	Arthropoda		Insecta		Diptera	Brachycera
Muscidae	150025	131750	Arthropoda		Insecta		Diptera	Brachycera
Limnophora	150730	150729	Arthropoda		Insecta		Diptera	Brachycera
Stratiomyidae	130150	130130	Arthropoda		Insecta		Diptera	Brachycera
Euparyphus	130436	130408	Arthropoda		Insecta		Diptera	Brachycera
Odontomyia	130573	130483	Arthropoda		Insecta		Diptera	Brachycera
Atherix pachypus	130931	130929	Arthropoda		Insecta		Diptera	Brachycera
Tabanidae	130934	130741	Arthropoda		Insecta		Diptera	Brachycera
Chrysops	131078	131061	Arthropoda		Insecta		Diptera	Brachycera
Tabanus	131527	131318	Arthropoda		Insecta		Diptera	Brachycera
Deuterophlebia coloradensis	121288	121287	Arthropoda		Insecta		Diptera	Nematocera
Blephariceridae	121227	121226	Arthropoda		Insecta		Diptera	Nematocera
Bibiocephala grandis	121251	121250	Arthropoda		Insecta		Diptera	Nematocera
Ceratopogonidae	127076	125808	Arthropoda		Insecta		Diptera	Nematocera
Bezzia	127778	127076	Arthropoda		Insecta		Diptera	Nematocera
Atrichopogon	127113	127076	Arthropoda		Insecta		Diptera	Nematocera
Chironomidae	127917	125808	Arthropoda		Insecta		Diptera	Nematocera
Chironominae	129228	127917	Arthropoda		Insecta		Diptera	Nematocera
Chironomus	129254	129229	Arthropoda		Insecta		Diptera	Nematocera
Chironomus plumosus	129303	129254	Arthropoda		Insecta		Diptera	Nematocera
Cryptochironomus	129368	129229	Arthropoda		Insecta		Diptera	Nematocera
Cryptotendipes	129394	129229	Arthropoda		Insecta		Diptera	Nematocera
Dicrotendipes	129428	129229	Arthropoda		Insecta		Diptera	Nematocera
Glyptotendipes	129483	129229	Arthropoda		Insecta		Diptera	Nematocera

Appendix F: Master Taxa List

Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Microtendipes	129535	129229	Arthropoda		Insecta		Diptera	Nematocera
Paracladopelma	129597	129229	Arthropoda		Insecta		Diptera	Nematocera
Paratendipes	129623	129229	Arthropoda		Insecta		Diptera	Nematocera
Phaenopsectra	129637	129229	Arthropoda		Insecta		Diptera	Nematocera
Polypedilum	129657	129229	Arthropoda		Insecta		Diptera	Nematocera
Stictochironomus	129785	129229	Arthropoda		Insecta		Diptera	Nematocera
Pseudochironomus	129851	129850	Arthropoda		Insecta		Diptera	Nematocera
Cladotanytarsus	129873	129872	Arthropoda		Insecta		Diptera	Nematocera
Micropsectra	129890	129872	Arthropoda		Insecta		Diptera	Nematocera
Paratanytarsus	129935	129872	Arthropoda		Insecta		Diptera	Nematocera
Rheotanytarsus	129952	129872	Arthropoda		Insecta		Diptera	Nematocera
Stempellina	129962	129872	Arthropoda		Insecta		Diptera	Nematocera
Sublettea	129975	129872	Arthropoda		Insecta		Diptera	Nematocera
Tanytarsus	129978	129872	Arthropoda		Insecta		Diptera	Nematocera
Diamesa	128355	128351	Arthropoda		Insecta		Diptera	Nematocera
Pagastia	128401	128351	Arthropoda		Insecta		Diptera	Nematocera
Potthastia	128408	128351	Arthropoda		Insecta		Diptera	Nematocera
Potthastia longimana	128412	128408	Arthropoda		Insecta		Diptera	Nematocera
Pseudodiamesa	128416	128351	Arthropoda		Insecta		Diptera	Nematocera
Orthocladiinae	128457	127917	Arthropoda		Insecta		Diptera	Nematocera
Heterotrissocladius	128737	128457	Arthropoda		Insecta		Diptera	Nematocera
Paratrissocladius	129010	128457	Arthropoda		Insecta		Diptera	Nematocera
Corynoneura	128563	128457	Arthropoda		Insecta		Diptera	Nematocera
Thienemanniella	129182	128457	Arthropoda		Insecta		Diptera	Nematocera
Brillia	128477	128457	Arthropoda		Insecta		Diptera	Nematocera
Cardiocladius	128511	128457	Arthropoda		Insecta		Diptera	Nematocera
Cricotopus	128575	128457	Arthropoda		Insecta		Diptera	Nematocera
Cricotopus (Nostococladius) nostocicola	568516	128575	Arthropoda		Insecta		Diptera	Nematocera
Eukiefferiella	128689	128457	Arthropoda		Insecta		Diptera	Nematocera
Hydrobaenus	128750	128457	Arthropoda		Insecta		Diptera	Nematocera
Limnophyes	128776	128457	Arthropoda		Insecta		Diptera	Nematocera
Lopescladius	128811	128457	Arthropoda		Insecta		Diptera	Nematocera
Metriocnemus	128821	128457	Arthropoda		Insecta		Diptera	Nematocera
Nanocladius	128844	128457	Arthropoda		Insecta		Diptera	Nematocera
Orthocladius	128874	128457	Arthropoda		Insecta		Diptera	Nematocera
Orthocladius (Symposiocladius)	568523	128874	Arthropoda		Insecta		Diptera	Nematocera
Parakiefferiella	128968	128457	Arthropoda		Insecta		Diptera	Nematocera
Parametriocnemus	128978	128457	Arthropoda		Insecta		Diptera	Nematocera

Appendix F: Master Taxa List

Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Paraphenocladius	128989	128457	Arthropoda		Insecta		Diptera	Nematocera
Pseudosmittia	129071	128457	Arthropoda		Insecta		Diptera	Nematocera
Rheocricotopus	129086	128457	Arthropoda		Insecta		Diptera	Nematocera
Stilocladius	129152	128457	Arthropoda		Insecta		Diptera	Nematocera
Synorthocladius	129161	128457	Arthropoda		Insecta		Diptera	Nematocera
Tvetenia	129197	128457	Arthropoda		Insecta		Diptera	Nematocera
Podonominae	127952	127917	Arthropoda		Insecta		Diptera	Nematocera
Parochlus kiefferi	127989	127952	Arthropoda		Insecta		Diptera	Nematocera
Monodiamesa	128440	128437	Arthropoda		Insecta		Diptera	Nematocera
Odontomesa	128446	128437	Arthropoda		Insecta		Diptera	Nematocera
Prodiamesa	128452	128437	Arthropoda		Insecta		Diptera	Nematocera
Tanypodinae	127994	127917	Arthropoda		Insecta		Diptera	Nematocera
Macropelopia	128034	128020	Arthropoda		Insecta		Diptera	Nematocera
Radotanypus		128020	Arthropoda		Insecta		Diptera	Nematocera
Ablabesmyia	128079	128078	Arthropoda		Insecta		Diptera	Nematocera
Nilotanypus	128202	128078	Arthropoda		Insecta		Diptera	Nematocera
Paramerina	128207	128078	Arthropoda		Insecta		Diptera	Nematocera
Pentaneura	128215	128078	Arthropoda		Insecta		Diptera	Nematocera
Thienemannimyia	128236	128078	Arthropoda		Insecta		Diptera	Nematocera
Zavrelimyia	128259	128078	Arthropoda		Insecta		Diptera	Nematocera
Procladius	128277	128270	Arthropoda		Insecta		Diptera	Nematocera
Tanypus	128324	128323	Arthropoda		Insecta		Diptera	Nematocera
Culicidae	125930	125808	Arthropoda		Insecta		Diptera	Nematocera
Culiseta	126429	126233	Arthropoda		Insecta		Diptera	Nematocera
Dixidae	125809	125808	Arthropoda		Insecta		Diptera	Nematocera
Dixa	125810	125809	Arthropoda		Insecta		Diptera	Nematocera
Dixella	125854	125809	Arthropoda		Insecta		Diptera	Nematocera
Simuliidae	126640	125808	Arthropoda		Insecta		Diptera	Nematocera
Prosimulium	126703	126648	Arthropoda		Insecta		Diptera	Nematocera
Simulium	126774	126773	Arthropoda		Insecta		Diptera	Nematocera
Maruina	125392	125391	Arthropoda		Insecta		Diptera	Nematocera
Pericoma	125514	125391	Arthropoda		Insecta		Diptera	Nematocera
Ptychopteridae	125763	125762	Arthropoda		Insecta		Diptera	Nematocera
Protanyderus	125802	125799	Arthropoda		Insecta		Diptera	Nematocera
Protoplasa fitchii	125801	125800	Arthropoda		Insecta		Diptera	Nematocera
Cryptolabis	120488	120397	Arthropoda		Insecta		Diptera	Nematocera
Molophilus	120758	120397	Arthropoda		Insecta		Diptera	Nematocera
Prionocera	119008	118841	Arthropoda		Insecta		Diptera	Nematocera
Tipulidae	118840	118839	Arthropoda		Insecta		Diptera	Nematocera
Hesperoconopa	120732	120397	Arthropoda		Insecta		Diptera	Nematocera
Ormosia	120830	120397	Arthropoda		Insecta		Diptera	Nematocera

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Rhabdomastix	120968	120397	Arthropoda		Insecta		Diptera	Nematocera
Hexatoma	120094	120030	Arthropoda		Insecta		Diptera	Nematocera
Limnophila	120164	120030	Arthropoda		Insecta		Diptera	Nematocera
Antocha monticola	119660	119656	Arthropoda		Insecta		Diptera	Nematocera
Limonia	119704	119655	Arthropoda		Insecta		Diptera	Nematocera
Dicranota	121027	121026	Arthropoda		Insecta		Diptera	Nematocera
Pedicia	121118	121026	Arthropoda		Insecta		Diptera	Nematocera
Holorusia grandis	118891	118890	Arthropoda		Insecta		Diptera	Nematocera
Tipula	119037	118841	Arthropoda		Insecta		Diptera	Nematocera
Caudatella heterocaudata heterocaudata	101354	101351	Arthropoda		Insecta		Ephemeroptera	
Paraleptophlebia	101187	101095	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Thraulodes	101128	101095	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Traverella	101096	101095	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Caenis	101478	101467	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Ephemerellidae	101232	568542	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Drunella coloradensis	101389	101365	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Drunella doddsi	101368	101365	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Drunella grandis	101370	101365	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Drunella spinifera	101385	101365	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Ephemerella	101233	101232	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Ephemerella altana	101252	101233	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Ephemerella inermis	101239	101233	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Ephemerella infrequens	101240	101233	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Serratella tibialis	101399	101232	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Timpanoga hecuba	101318	101317	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Leptohyphidae	568545	568542	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Leptohyphes	101429	568545	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Tricorythodes	101405	568545	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Tricorythodes minutus	101413	101405	Arthropoda		Insecta		Ephemeroptera	Furcatergalia
Centroptilum	100873	100755	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Ameletus	100996	568544	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Acentrella insignificans	568572	100801	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Baetis	100800	100755	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Baetis bicaudatus	100823	100800	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Baetis tricaudatus	100817	100800	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Diphetor hageni	568598	568550	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Siphlonurus occidentalis	100955	100953	Arthropoda		Insecta		Ephemeroptera	Pisciforma
Heptageniidae	100504	609501	Arthropoda		Insecta		Ephemeroptera	Setisura
Cinygmula	100557	100504	Arthropoda		Insecta		Ephemeroptera	Setisura
Epeorus	100626	100504	Arthropoda		Insecta		Ephemeroptera	Setisura

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Epeorus longimanus	100637	100626	Arthropoda		Insecta		Ephemeroptera	Setisura
Heptagenia	100602	100504	Arthropoda		Insecta		Ephemeroptera	Setisura
Heptagenia solitaria	100621	100602	Arthropoda		Insecta		Ephemeroptera	Setisura
Nixe	100692	100504	Arthropoda		Insecta		Ephemeroptera	Setisura
Nixe simplicoides	568647	100692	Arthropoda		Insecta		Ephemeroptera	Setisura
Rhithrogena	100572	100504	Arthropoda		Insecta		Ephemeroptera	Setisura
Rithrogena hageni	100583	100572	Arthropoda		Insecta		Ephemeroptera	Setisura
Rhithrogena robusta	100589	100572	Arthropoda		Insecta		Ephemeroptera	Setisura
Rhithrogena undulata	100591	100572	Arthropoda		Insecta		Ephemeroptera	Setisura
Isonychia	101041	609506	Arthropoda		Insecta		Ephemeroptera	Setisura
Lachlania	101030	101029	Arthropoda		Insecta		Ephemeroptera	Setisura
Tubifex	68622	68585	Arthropoda		Insecta		Haplotaxida	Tubificina
Abedus	103717	103683	Arthropoda		Insecta		Hemiptera	
Belostoma	103684	103683	Arthropoda		Insecta		Hemiptera	
Lethocerus	103699	103683	Arthropoda		Insecta		Hemiptera	
Corixidae	103364	103358	Arthropoda		Insecta		Hemiptera	
Graptocorixa	103547	103364	Arthropoda		Insecta		Hemiptera	
Sigara	103369	103364	Arthropoda		Insecta		Hemiptera	
Trichocorixa	103423	103364	Arthropoda		Insecta		Hemiptera	
Gelastocoris	103769	103768	Arthropoda		Insecta		Hemiptera	
Gerridae	103801	103358	Arthropoda		Insecta		Hemiptera	
Gerris	103829	103801	Arthropoda		Insecta		Hemiptera	
Trepobates	103811	103801	Arthropoda		Insecta		Hemiptera	
Hydrometra	103939	103938	Arthropoda		Insecta		Hemiptera	
Macrovelia	103991	103953	Arthropoda		Insecta		Hemiptera	
Ambrysus mormon	103626	103614	Arthropoda		Insecta		Hemiptera	
Notonectidae	103557	103358	Arthropoda		Insecta		Hemiptera	
Notonecta	103558	103557	Arthropoda		Insecta		Hemiptera	
Veliidae	103885	103358	Arthropoda		Insecta		Hemiptera	
Microvelia	103900	103885	Arthropoda		Insecta		Hemiptera	
Rhagovelia	103886	103885	Arthropoda		Insecta		Hemiptera	
Noctuidae	117318	117232	Arthropoda		Insecta		Lepidoptera	
Pyralidae	117641	117232	Arthropoda		Insecta		Lepidoptera	
Petrophilia	117682	117641	Arthropoda		Insecta		Lepidoptera	
Corydalidae	115023	115000	Arthropoda		Insecta		Megaloptera	
Neohermes	115048	115023	Arthropoda		Insecta		Megaloptera	
Corydalus cornutus	115034	115033	Arthropoda		Insecta		Megaloptera	
Sialis	115002	115001	Arthropoda		Insecta		Megaloptera	
Aeshnidae	101596	101594	Arthropoda		Insecta		Odonata	Anisoptera
Aeshna	101603	101596	Arthropoda		Insecta		Odonata	Anisoptera
Boyeria	101645	101596	Arthropoda		Insecta		Odonata	Anisoptera

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Oplonaeschna	101655	101596	Arthropoda		Insecta		Odonata	Anisoptera
Cordulegaster	102027	102026	Arthropoda		Insecta		Odonata	Anisoptera
Gomphidae	101664	101594	Arthropoda		Insecta		Odonata	Anisoptera
Erpetogomphus	101725	101664	Arthropoda		Insecta		Odonata	Anisoptera
Gomphus	101665	101664	Arthropoda		Insecta		Odonata	Anisoptera
Ophiogomphus	101738	101664	Arthropoda		Insecta		Odonata	Anisoptera
Progomphus	101718	101664	Arthropoda		Insecta		Odonata	Anisoptera
Libellulidae	101797	101594	Arthropoda		Insecta		Odonata	Anisoptera
Leucorrhinia	101885	101797	Arthropoda		Insecta		Odonata	Anisoptera
Libellula	101893	101797	Arthropoda		Insecta		Odonata	Anisoptera
Sympetrum	101976	101797	Arthropoda		Insecta		Odonata	Anisoptera
Hetaerina	102048	102043	Arthropoda		Insecta		Odonata	Zygoptera
Coenagrionidae	102077	102042	Arthropoda		Insecta		Odonata	Zygoptera
Argia	102139	102077	Arthropoda		Insecta		Odonata	Zygoptera
Enallagma	102102	102077	Arthropoda		Insecta		Odonata	Zygoptera
Hesperagrion	181187	102077	Arthropoda		Insecta		Odonata	Zygoptera
Gryllidae	102281	102160	Arthropoda		Insecta		Orthoptera	Ensifera
Capniidae	102643	102467	Arthropoda		Insecta		Plecoptera	Euholognatha
Capnia	102688	609848	Arthropoda		Insecta		Plecoptera	Euholognatha
Capnia confusa	102702	102688	Arthropoda		Insecta		Plecoptera	Euholognatha
Capnia gracilaria	102712	102688	Arthropoda		Insecta		Plecoptera	Euholognatha
Mesocapnia frisoni	102776	102771	Arthropoda		Insecta		Plecoptera	Euholognatha
Leuctridae	102840	102467	Arthropoda		Insecta		Plecoptera	Euholognatha
Perlomyia	103239	609849	Arthropoda		Insecta		Plecoptera	Euholognatha
Amphinemura	102540	609851	Arthropoda		Insecta		Plecoptera	Euholognatha
Amphinemura banksi	102546	102540	Arthropoda		Insecta		Plecoptera	Euholognatha
Malenka	102567	609851	Arthropoda		Insecta		Plecoptera	Euholognatha
Podmosta delicatula	102606	102605	Arthropoda		Insecta		Plecoptera	Euholognatha
Prostoia besametsa	102585	102584	Arthropoda		Insecta		Plecoptera	Euholognatha
Zapada	102591	609852	Arthropoda		Insecta		Plecoptera	Euholognatha
Zapada cinctipes	102594	102591	Arthropoda		Insecta		Plecoptera	Euholognatha
Zapada haysi	102592	102591	Arthropoda		Insecta		Plecoptera	Euholognatha
Taeniopterygidae	102788	102467	Arthropoda		Insecta		Plecoptera	Euholognatha
Taenionema	102519	609853	Arthropoda		Insecta		Plecoptera	Euholognatha
Taenionema pacificum	102817	102519	Arthropoda		Insecta		Plecoptera	Euholognatha
Taeniopteryx	102789	609854	Arthropoda		Insecta		Plecoptera	Euholognatha
Chloroperlidae	103202	102467	Arthropoda		Insecta		Plecoptera	Systellognatha
Alloperla severa	103232	103203	Arthropoda		Insecta		Plecoptera	Systellognatha
Plumiperla diversa	103306	103305	Arthropoda		Insecta		Plecoptera	Systellognatha
Suwallia	103254	609855	Arthropoda		Insecta		Plecoptera	Systellognatha
Sweltsa	103273	609855	Arthropoda		Insecta		Plecoptera	Systellognatha

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Sweltsa borealis	103281	103273	Arthropoda		Insecta		Plecoptera	Systellognatha
Triznaka	103308	609855	Arthropoda		Insecta		Plecoptera	Systellognatha
Perlidae	102914	102467	Arthropoda		Insecta		Plecoptera	Systellognatha
Acroneuria abnormis	102919	102917	Arthropoda		Insecta		Plecoptera	Systellognatha
Hesperoperla pacifica	102972	102971	Arthropoda		Insecta		Plecoptera	Systellognatha
Claassenia sabulosa	102932	102930	Arthropoda		Insecta		Plecoptera	Systellognatha
Perlodidae	102994	102467	Arthropoda		Insecta		Plecoptera	Systellognatha
Isoperla	102995	609859	Arthropoda		Insecta		Plecoptera	Systellognatha
Isoperla mormona	103007	102995	Arthropoda		Insecta		Plecoptera	Systellognatha
Isoperla quinquepunctata	103045	102995	Arthropoda		Insecta		Plecoptera	Systellognatha
Isoperla sobria	103037	102995	Arthropoda		Insecta		Plecoptera	Systellognatha
Perlodinae	102915	102994	Arthropoda		Insecta		Plecoptera	Systellognatha
Megarcys signata	103111	103110	Arthropoda		Insecta		Plecoptera	Systellognatha
Skwala americana	568735	103102	Arthropoda		Insecta		Plecoptera	Systellognatha
Cultus aestivalis	103138	103137	Arthropoda		Insecta		Plecoptera	Systellognatha
Kogotus modestus	103151	103149	Arthropoda		Insecta		Plecoptera	Systellognatha
Diura knowltoni	103096	103094	Arthropoda		Insecta		Plecoptera	Systellognatha
Isogenoides	103124	609867	Arthropoda		Insecta		Plecoptera	Systellognatha
Isogenoides elongatus	103130	103124	Arthropoda		Insecta		Plecoptera	Systellognatha
Isogenoides zionensis	103133	103124	Arthropoda		Insecta		Plecoptera	Systellognatha
Pteronarcella badia	102486	102485	Arthropoda		Insecta		Plecoptera	Systellognatha
Pteronarcys californica	102473	102471	Arthropoda		Insecta		Plecoptera	Systellognatha
Agraylea	115635	598244	Arthropoda		Insecta		Trichoptera	
Alisotrichia	181197	598245	Arthropoda		Insecta		Trichoptera	
Agapetus	117121	598218	Arthropoda		Insecta		Trichoptera	
Anagapetus	117154	598242	Arthropoda		Insecta		Trichoptera	
Glossosoma	117159	598243	Arthropoda		Insecta		Trichoptera	
Culoptila	115236	598220	Arthropoda		Insecta		Trichoptera	
Protoptila	115221	598220	Arthropoda		Insecta		Trichoptera	
Hydropsychidae	115398	598158	Arthropoda		Insecta		Trichoptera	
Arctopsyche grandis	115530	115529	Arthropoda		Insecta		Trichoptera	
Diplectroninae	598190	115398	Arthropoda		Insecta		Trichoptera	
Ceratopsyche cockerelli	115602	115570	Arthropoda		Insecta		Trichoptera	
Ceratopsyche oslari	599457	115570	Arthropoda		Insecta		Trichoptera	
Ceratopsyche venada	599479	115570	Arthropoda		Insecta		Trichoptera	
Cheumatopsyche	115408	598191	Arthropoda		Insecta		Trichoptera	
Hydropsyche	115453	598191	Arthropoda		Insecta		Trichoptera	
Hydropsyche occidentalis	115513	115453	Arthropoda		Insecta		Trichoptera	
Smicridea	115544	598225	Arthropoda		Insecta		Trichoptera	
Neureclipsis	117095	598193	Arthropoda		Insecta		Trichoptera	
Polyplectropus	115395	598193	Arthropoda		Insecta		Trichoptera	

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Polycentropus	117044	598193	Arthropoda		Insecta		Trichoptera	
Psychomyia	115335	598196	Arthropoda		Insecta		Trichoptera	
Oxyethira	115779	598244	Arthropoda		Insecta		Trichoptera	
Neotrichia	115833	598246	Arthropoda		Insecta		Trichoptera	
Metrichia	598644	598247	Arthropoda		Insecta		Trichoptera	
Hydroptilidae	115629	598164	Arthropoda		Insecta		Trichoptera	
Hydroptila	115641	598244	Arthropoda		Insecta		Trichoptera	
Ochrotrichia	115714	598247	Arthropoda		Insecta		Trichoptera	
Leucotrichia	115630	598245	Arthropoda		Insecta		Trichoptera	
Mayatrichia	115811	598246	Arthropoda		Insecta		Trichoptera	
Ithytrichia	115823	598248	Arthropoda		Insecta		Trichoptera	
Stactobiella	115817	598247	Arthropoda		Insecta		Trichoptera	
Phylloicus aeneus	116545	116540	Arthropoda		Insecta		Trichoptera	
Leptoceridae	116547	598160	Arthropoda		Insecta		Trichoptera	
Ceraclea	116684	598230	Arthropoda		Insecta		Trichoptera	
Oecetis	116607	555650	Arthropoda		Insecta		Trichoptera	
Nectopsyche	116651	598234	Arthropoda		Insecta		Trichoptera	
Odontoceridae	116496	598160	Arthropoda		Insecta		Trichoptera	
Apataniidae	598182	598162	Arthropoda		Insecta		Trichoptera	
Amiocentrus	116933	116905	Arthropoda		Insecta		Trichoptera	
Ecclisomyia	116025	568759	Arthropoda		Insecta		Trichoptera	
Homophylax	116286	568767	Arthropoda		Insecta		Trichoptera	
Psychoglypha	115974	568767	Arthropoda		Insecta		Trichoptera	
Clistoronia	116276	568768	Arthropoda		Insecta		Trichoptera	
Brachycentridae	116905	598162	Arthropoda		Insecta		Trichoptera	
Brachycentrus	116906	116905	Arthropoda		Insecta		Trichoptera	
(Oligoplectrodes) americanus	116912	598768	Arthropoda		Insecta		Trichoptera	
(Sphinctogaster) occidentalis	116918	598770	Arthropoda		Insecta		Trichoptera	
Micrasema	116958	116905	Arthropoda		Insecta		Trichoptera	
Lepidostomatidae	116793	598162	Arthropoda		Insecta		Trichoptera	
Lepidostoma	116794	598212	Arthropoda		Insecta		Trichoptera	
Limnephilidae	115933	598162	Arthropoda		Insecta		Trichoptera	
Dicosmoecus	116265	568759	Arthropoda		Insecta		Trichoptera	
Hesperophylax	116001	568768	Arthropoda		Insecta		Trichoptera	
Limnephilus	116069	568768	Arthropoda		Insecta		Trichoptera	
Psychoronia	116402	568768	Arthropoda		Insecta		Trichoptera	
Oligophlebodes	116039	568760	Arthropoda		Insecta		Trichoptera	
Neothremma	116388	568761	Arthropoda		Insecta		Trichoptera	
Chimarra	115273	598201	Arthropoda		Insecta		Trichoptera	

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Dolophilodes	115319	598200	Arthropoda		Insecta		Trichoptera	
Wormaldia	115258	598200	Arthropoda		Insecta		Trichoptera	
Hydrobiosidae	117225	598165	Arthropoda		Insecta		Trichoptera	
Atopsyche	117226	598250	Arthropoda		Insecta		Trichoptera	
Rhyacophilidae	115096	598165	Arthropoda		Insecta		Trichoptera	
Rhyacophila	115097	115096	Arthropoda		Insecta		Trichoptera	
Rhyacophila brunea	115151	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila coloradensis	115156	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila hyalinata	115159	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila sibirica	568811	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila tucula	115189	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila valuma	115121	115097	Arthropoda		Insecta		Trichoptera	
Rhyacophila verrula	115125	115097	Arthropoda		Insecta		Trichoptera	
Helicopsyche (Feropsyche) borealis	117020	598759	Arthropoda		Insecta		Trichoptera	
Gumaga	117003	116982	Arthropoda		Insecta		Trichoptera	
Daphniidae	83872	609958	Arthropoda	Crustacea	Branchiopoda		Diplostraca	Cladocera
Hydrachnidae	83122	82770	Arthropoda		Arachnida		Trombidiformes	Prostigmata
Ostracoda	84195	82696	Arthropoda	Crustacea	Ostracoda			
Gammaridae	93745	93295	Arthropoda	Crustacea	Malacostraca		Amphipoda	Gammaridea
Gammarus lacustris	93789	93773	Arthropoda	Crustacea	Malacostraca		Amphipoda	Gammaridea
Hyalella azteca	94026	94025	Arthropoda	Crustacea	Malacostraca		Amphipoda	Gammaridea
Orconectes virilis	97425	97421	Arthropoda	Crustacea	Malacostraca		Decapoda	Pleocyemata
Asellidae	92657	92650	Arthropoda	Crustacea	Malacostraca		Isopoda	Asellota
Caecidotea	92686	92657	Arthropoda	Crustacea	Malacostraca		Isopoda	Asellota
Gastropoda	69459	69458	Mollusca		Gastropoda			
Bivalvia	79118	69458	Mollusca		Bivalvia			
Physella virgata	76731	76698	Mollusca		Gastropoda		Basommatophora	
Ancylidae	76568	76437	Mollusca		Gastropoda		Basommatophora	
Ferrissia	76569	76568	Mollusca		Gastropoda		Basommatophora	
Lymnaea	76484	76483	Mollusca		Gastropoda		Basommatophora	
Physidae	76676	76437	Mollusca		Gastropoda		Basommatophora	
Physa	76677	76676	Mollusca		Gastropoda		Basommatophora	
Physella	76698	76676	Mollusca		Gastropoda		Basommatophora	
Planorbidae	76591	76437	Mollusca		Gastropoda		Basommatophora	
Gyraulus	76592	76591	Mollusca		Gastropoda		Basommatophora	
Helisoma anceps	76600	76599	Mollusca		Gastropoda		Basommatophora	
Corbicula	81385	81381	Mollusca		Bivalvia		Veneroida	
Pisidiidae	81388	566875	Mollusca		Bivalvia		Veneroida	
Pisidium	81400	81388	Mollusca		Bivalvia		Veneroida	
Nemata	563956	202423	Nemata					

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Final ID	TSN	ParTSN	Phylum	SubPhylum	Class	SubClass	Order	SubOrder
Gordius	64228	64227	Nematomorpha		Gordioida		Gordea	
Turbellaria	53964	53963	Platyhelminthes		Turbellaria			
Phagocata crenophila	54543	54535	Platyhelminthes		Turbellaria		Tricladida	
Polycelis coronata	54512	54510	Platyhelminthes		Turbellaria		Tricladida	
Tricladida	54468	53965	Platyhelminthes		Turbellaria		Tricladida	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Hirudinea							
Oligochaeta							
Erpobdella			Erpobdellidae			Erpobdella	
Limnodrilus			Tubificidae			Limnodrilus	
Naididae			Naididae				
Ophidonais serpentina			Naididae			Ophidonais	
Tubificidae			Tubificidae				
Lumbriculidae			Lumbriculidae				
Amphizoidae			Amphizoidae				
Dytiscidae			Dytiscidae				
Dytiscus			Dytiscidae			Dytiscus	
Hydaticus			Dytiscidae			Hydaticus	
Agabus			Dytiscidae	Colymbetinae		Agabus	
Hydroporus			Dytiscidae	Hydroporinae		Hydroporus	
Oreodytes			Dytiscidae	Hydroporinae		Oreodytes	
Laccophilus			Dytiscidae	Laccophilinae		Laccophilus	
Dineutus			Gyrinidae	Gyrininae	Enhydrini	Dineutus	
Gyrinus			Gyrinidae	Gyrininae	Gyrinini	Gyrinus	
Haliplidae			Haliplidae				
Haliplus			Haliplidae			Haliplus	
Peltodytes			Haliplidae			Peltodytes	
Noteridae			Noteridae				
Lampyridae		Cantharoidea	Lampyridae				
Chrysomelidae		Chrysomeloidea	Chrysomelidae				
Curculionidae		Curculionoidea	Curculionidae				
Helichus		Dryopoidea	Dryopidae			Helichus	
Helichus striatus		Dryopoidea	Dryopidae			Helichus	
Postelichus immsi		Dryopoidea	Dryopidae			Postelichus	
Elmidae		Dryopoidea	Elmidae				
Cleptelmis		Dryopoidea	Elmidae			Cleptelmis	
Dubiraphia		Dryopoidea	Elmidae			Dubiraphia	
Heterelmis		Dryopoidea	Elmidae			Heterelmis	
Heterlimnius corpulentus		Dryopoidea	Elmidae			Heterlimnius	
Microcylloepus		Dryopoidea	Elmidae			Microcylloepus	
Narpus		Dryopoidea	Elmidae			Narpus	
Optioservus		Dryopoidea	Elmidae			Optioservus	
Zaitzevia parvula		Dryopoidea	Elmidae			Zaitzevia	
Psephenidae		Dryopoidea	Psephenidae				
Psphenus		Dryopoidea	Psephenidae			Psphenus	
Hydrochus		Hydrophiloidea	Hydrophilidae			Hydrochus	
Helochares		Hydrophiloidea	Hydrophilidae	Hydrobiinae		Helochares	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Hydrophilidae		Hydrophiloidea	Hydrophilidae				
Berosus		Hydrophiloidea	Hydrophilidae	Berosinae		Berosus	
Cymbiodyta		Hydrophiloidea	Hydrophilidae	Hydrobiinae		Cymbiodyta	
Hydrobius		Hydrophiloidea	Hydrophilidae	Hydrobiinae		Hydrobius	
Tropisternus		Hydrophiloidea	Hydrophilidae	Hydrophilinae		Tropisternus	
Poduridae			Poduridae				
Copepoda							
Agathon			Blephariceridae	Blepharicerinae	Blepharicerini	Agathon	
Chaetocladius			Chironomidae	Orthocladiinae		Chaetocladius	
Saetheria	Culicomorpha		Chironomidae	Chironominae	Chironomini	Saetheria	
Tribelos	Culicomorpha		Chironomidae	Chironominae	Chironomini	Tribelos	
Stempellinella	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Stempellinella	
Ephydridae	Muscomorpha		Ephydridae				
Dolichopodidae	Muscomorpha		Dolichopodidae				
Empididae	Muscomorpha		Empididae				
Clinocera	Muscomorpha		Empididae	Clinocerinae		Clinocera	
Chelifera	Muscomorpha		Empididae	Hemerodromiinae	Hemerodromiini	Chelifera	
Hemerodromia	Muscomorpha		Empididae	Hemerodromiinae	Hemerodromiini	Hemerodromia	
Muscidae	Muscomorpha		Muscidae				
Limnophora	Muscomorpha		Muscidae	Coenosiinae	Limnophorini	Limnophora	
Stratiomyidae	Stratiomyomorpha		Stratiomyiidae				
Euparyphus	Stratiomyomorpha		Stratiomyiidae	Stratiomyinae	Oxycerini	Euparyphus	
Odontomyia	Stratiomyomorpha		Stratiomyiidae	Stratiomyinae	Stratiomyini	Odontomyia	
Atherix pachypus	Tabanomorpha		Athericidae			Atherix	
Tabanidae	Tabanomorpha		Tabanidae				
Chrysops	Tabanomorpha		Tabanidae	Chrysopsinae	Chrysopsini	Chrysops	
Tabanus	Tabanomorpha		Tabanidae	Tabaninae	Tabanini	Tabanus	
Deuterophlebia coloradensis	Blephariceromorpha		Deuterophlebiidae			Deuterophlebia	
Blephariceridae	Blephariceromorpha		Blephariceridae				
Bibiocephala grandis	Blephariceromorpha		Blephariceridae			Bibiocephala	
Ceratopogonidae	Culicomorpha		Ceratopogonidae				
Bezzia	Culicomorpha		Ceratopogonidae	Ceratopogoninae	Palpomyiini	Bezzia	
Atrichopogon	Culicomorpha		Ceratopogonidae	Forcipomyiinae		Atrichopogon	
Chironomidae	Culicomorpha		Chironomidae				
Chironominae	Culicomorpha		Chironomidae	Chironominae			
Chironomus	Culicomorpha		Chironomidae	Chironominae	Chironomini	Chironomus	
Chironomus plumosus	Culicomorpha		Chironomidae	Chironominae	Chironomini	Chironomus	
Cryptochironomus	Culicomorpha		Chironomidae	Chironominae	Chironomini	Cryptochironomus	
Cryptotendipes	Culicomorpha		Chironomidae	Chironominae	Chironomini	Cryptotendipes	
Dicrotendipes	Culicomorpha		Chironomidae	Chironominae	Chironomini	Dicrotendipes	
Glyptotendipes	Culicomorpha		Chironomidae	Chironominae	Chironomini	Glyptotendipes	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Microtendipes	Culicomorpha		Chironomidae	Chironominae	Chironomini	Microtendipes	
Paracladopelma	Culicomorpha		Chironomidae	Chironominae	Chironomini	Paracladopelma	
Paratendipes	Culicomorpha		Chironomidae	Chironominae	Chironomini	Paratendipes	
Phaenopsectra	Culicomorpha		Chironomidae	Chironominae	Chironomini	Phaenopsectra	
Polypedilum	Culicomorpha		Chironomidae	Chironominae	Chironomini	Polypedilum	
Stictochironomus	Culicomorpha		Chironomidae	Chironominae	Chironomini	Stictochironomus	
Pseudochironomus	Culicomorpha		Chironomidae	Chironominae	Pseudochironomini	Pseudochironomus	
Cladotanytarsus	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Cladotanytarsus	
Micropsectra	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Micropsectra	
Paratanytarsus	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Paratanytarsus	
Rheotanytarsus	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Rheotanytarsus	
Stempellina	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Stempellina	
Sublettea	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Sublettea	
Tanytarsus	Culicomorpha		Chironomidae	Chironominae	Tanytarsini	Tanytarsus	
Diamesa	Culicomorpha		Chironomidae	Diamesinae	Diamisini	Diamesa	
Pagastia	Culicomorpha		Chironomidae	Diamesinae	Diamisini	Pagastia	
Potthastia	Culicomorpha		Chironomidae	Diamesinae	Diamisini	Potthastia	
Potthastia longimana	Culicomorpha		Chironomidae	Diamesinae	Diamisini	Potthastia	
Pseudodiamesa	Culicomorpha		Chironomidae	Diamesinae	Diamisini	Pseudodiamesa	
Orthocladiinae	Culicomorpha		Chironomidae	Orthocladiinae			
Heterotrissocladius	Culicomorpha		Chironomidae	Orthocladiinae		Heterotrissocladius	
Paratrissocladius	Culicomorpha		Chironomidae	Orthocladiinae		Paratrissocladius	
Corynoneura	Culicomorpha		Chironomidae	Orthocladiinae	Corynoneurini	Corynoneura	
Thienemanniella	Culicomorpha		Chironomidae	Orthocladiinae	Corynoneurini	Thienemanniella	
Brillia	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Brillia	
Cardiocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Cardiocladius	
Cricotopus	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Cricotopus	
Cricotopus (Nostococladius) nostocicola	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Cricotopus	Nostococladius
Eukiefferiella	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Eukiefferiella	
Hydrobaenus	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Hydrobaenus	
Limnophyes	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Limnophyes	
Lopescladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Lopescladius	
Metriocnemus	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Metriocnemus	
Nanocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Nanocladius	
Orthocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Orthocladius	
Orthocladius (Symposiocladius)	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Orthocladius	Symposiocladius
Parakiefferiella	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Parakiefferiella	
Parametriocnemus	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Parametriocnemus	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Paraphenocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Paraphenocladius	
Pseudosmittia	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Pseudosmittia	
Rheocricotopus	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Rheocricotopus	
Stilocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Stilocladius	
Synorthocladius	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Synorthocladius	
Tvetenia	Culicomorpha		Chironomidae	Orthocladiinae	Orthocladiini/Metriocnemini	Tvetenia	
Podonominae	Culicomorpha		Chironomidae	Podonominae			
Parochlus kiefferi	Culicomorpha		Chironomidae	Podonominae		Parochlus	
Monodiamesa	Culicomorpha		Chironomidae	Prodiamesinae		Monodiamesa	
Odontomesa	Culicomorpha		Chironomidae	Prodiamesinae		Odontomesa	
Prodiamesa	Culicomorpha		Chironomidae	Prodiamesinae		Prodiamesa	
Tanypodinae	Culicomorpha		Chironomidae	Tanypodinae			
Macropelopia	Culicomorpha		Chironomidae	Tanypodinae	Macropelopiini	Macropelopia	
Radotanypus	Culicomorpha		Chironomidae	Tanypodinae	Macropelopiini	Radotanypus	
Ablabesmyia	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Ablabesmyia	
Nilotanypus	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Nilotanypus	
Paramerina	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Paramerina	
Pentaneura	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Pentaneura	
Thienemannimyia	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Thienemannimyia	
Zavrelimyia	Culicomorpha		Chironomidae	Tanypodinae	Pentaneurini	Zavrelimyia	
Procladius	Culicomorpha		Chironomidae	Tanypodinae	Procladiini	Procladius	
Tanypus	Culicomorpha		Chironomidae	Tanypodinae	Tanypodini	Tanypus	
Culicidae	Culicomorpha		Culicidae	Culicinae	Culicini		
Culiseta	Culicomorpha		Culicidae	Culicinae	Culicini	Culiseta	
Dixidae	Culicomorpha		Dixidae				
Dixa	Culicomorpha		Dixidae			Dixa	
Dixella	Culicomorpha		Dixidae			Dixella	
Simuliidae	Culicomorpha		Simuliidae				
Prosimulium	Culicomorpha		Simuliidae	Simuliinae	Prosimuliini	Prosimulium	
Simulium	Culicomorpha		Simuliidae	Simuliinae	Simuliini	Simulium	
Maruina	Psychodomorpha		Psychodidae	Psychodinae		Maruina	
Pericoma	Psychodomorpha		Psychodidae	Psychodinae		Pericoma	
Ptychopteridae	Ptychopteromorpha		Ptychopteridae				
Protanyderus	Ptychopteromorpha		Tanyderidae			Protanyderus	
Protoplasa fitchii	Ptychopteromorpha		Tanyderidae			Protoplasa	
Cryptolabis	Tipulomorpha		Tipulidae	Limoniinae	Eriopterini	Cryptolabis	
Molophilus	Tipulomorpha		Tipulidae	Limoniinae	Eriopterini	Molophilus	
Prionocera	Tipulomorpha		Tipulidae	Tipulinae		Prionocera	
Tipulidae	Tipulomorpha		Tipulidae				
Hesperoconopa	Tipulomorpha		Tipulidae	Limoniinae	Eriopterini	Hesperoconopa	
Ormosia	Tipulomorpha		Tipulidae	Limoniinae	Eriopterini	Ormosia	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Rhabdomastix	Tipulomorpha		Tipulidae	Limoniinae	Eriopterini	Rhabdomastix	
Hexatoma	Tipulomorpha		Tipulidae	Limoniinae	Hexatomini	Hexatoma	
Limnophila	Tipulomorpha		Tipulidae	Limoniinae	Hexatomini	Limnophila	
Antocha monticola	Tipulomorpha		Tipulidae	Limoniinae	Limoniini	Antocha	
Limonia	Tipulomorpha		Tipulidae	Limoniinae	Limoniini	Limonia	
Dicranota	Tipulomorpha		Tipulidae	Limoniinae	Pediciini	Dicranota	
Pedicia	Tipulomorpha		Tipulidae	Limoniinae	Pediciini	Pedicia	
Holorusia grandis	Tipulomorpha		Tipulidae	Tipulinae		Holorusia	
Tipula	Tipulomorpha		Tipulidae	Tipulinae		Tipula	
Caudatella heterocaudata heterocaudata		Ephemerelloidea	Ephemerellidae			Caudatella	
Paraleptophlebia	Lanceolata		Leptophlebiidae			Paraleptophlebia	
Thraulodes	Lanceolata		Leptophlebiidae			Thraulodes	
Traverella	Lanceolata		Leptophlebiidae			Traverella	
Caenis	Pannota	Caenoidea	Caenidae			Caenis	
Ephemerellidae	Pannota	Ephemerelloidea	Ephemerellidae				
Drunella coloradensis	Pannota	Ephemerelloidea	Ephemerellidae			Drunella	
Drunella doddsi	Pannota	Ephemerelloidea	Ephemerellidae			Drunella	
Drunella grandis	Pannota	Ephemerelloidea	Ephemerellidae			Drunella	
Drunella spinifera	Pannota	Ephemerelloidea	Ephemerellidae			Drunella	
Ephemerella	Pannota	Ephemerelloidea	Ephemerellidae			Ephemerella	
Ephemerella altana	Pannota	Ephemerelloidea	Ephemerellidae			Ephemerella	
Ephemerella inermis	Pannota	Ephemerelloidea	Ephemerellidae			Ephemerella	
Ephemerella infrequens	Pannota	Ephemerelloidea	Ephemerellidae			Ephemerella	
Serratella tibialis	Pannota	Ephemerelloidea	Ephemerellidae			Serratella	
Timpanoga hecuba	Pannota	Ephemerelloidea	Ephemerellidae			Timpanoga	
Leptohyphidae	Pannota	Ephemerelloidea	Leptohyphidae				
Leptohyphes	Pannota	Ephemerelloidea	Leptohyphidae			Leptohyphes	
Tricorythodes	Pannota	Ephemerelloidea	Leptohyphidae			Tricorythodes	
Tricorythodes minutus	Pannota	Ephemerelloidea	Leptohyphidae			Tricorythodes	
Centroptilum			Baetidae			Centroptilum	
Ameletus			Ameletidae			Ameletus	
Acentrella insignificans			Baetidae			Acentrella	
Baetis			Baetidae			Baetis	
Baetis bicaudatus			Baetidae			Baetis	
Baetis tricaudatus			Baetidae			Baetis	
Diphetor hageni			Baetidae			Diphetor	
Siphlonurus occidentalis			Siphlonuridae			Siphlonurus	
Heptageniidae			Heptageniidae				
Cinygmula			Heptageniidae			Cinygmula	
Epeorus			Heptageniidae			Epeorus	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Epeorus longimanus			Heptageniidae			Epeorus	
Heptagenia			Heptageniidae			Heptagenia	
Heptagenia solitaria			Heptageniidae			Heptagenia	
Nixe			Heptageniidae			Nixe	
Nixe simplicoides			Heptageniidae			Nixe	
Rhithrogena			Heptageniidae			Rhithrogena	
Rithrogena hageni			Heptageniidae			Rhithrogena	
Rhithrogena robusta			Heptageniidae			Rhithrogena	
Rhithrogena undulata			Heptageniidae			Rhithrogena	
Isonychia			Isonychiidae			Isonychia	
Lachlania			Oligoneuriidae			Lachlania	
Tubifex			Tubificidae			Tubifex	
Abedus			Belostomatidae	Belostomatinae		Abedus	
Belostoma			Belostomatidae	Belostomatinae		Belostoma	
Lethocerus			Belostomatidae	Lethocerinae		Lethocerus	
Corixidae			Corixidae				
Graptocorixa			Corixidae			Graptocorixa	
Sigara			Corixidae			Sigara	
Trichocorixa			Corixidae			Trichocorixa	
Gelastocoris			Gelastocoridae	Gelasrocorinae		Gelastocoris	
Gerridae			Gerridae				
Gerris			Gerridae	Gerrinae		Gerris	
Trepobates			Gerridae	Trepobatinae		Trepobates	
Hydrometra			Hydrometridae			Hydrometra	
Macrovelia			Macroveliidae			Macrovelia	
Ambrysus mormon			Naucoridae	Ambrysinae		Ambrysus	
Notonectidae			Notonectidae				
Notonecta			Notonectidae	Notonectinae		Notonecta	
Veliidae			Veliidae				
Microvelia			Veliidae	Microvelinae		Microvelia	
Rhagovelia			Veliidae	Rhagoveliinae		Rhagovelia	
Noctuidae			Noctuidae				
Pyralidae			Pyralidae				
Petrophilia			Pyralidae	Nymphulinae		Petrophilia	
Corydalidae			Corydalidae				
Neohermes			Corydalidae	Chauliodinae		Neohermes	
Corydalus cornutus			Corydalidae	Corydalinae		Corydalus	
Sialis			Sialidae			Sialis	
Aeshnidae			Aeshnidae				
Aeshna			Aeshnidae			Aeshna	
Boyeria			Aeshnidae			Boyeria	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Oplonaeschna			Aeshnidae			Oplonaeshna	
Cordulegaster			Cordulegastridae			Cordulegaster	
Gomphidae			Gomphidae				
Erpetogomphus			Gomphidae			Erpetogomphus	
Gomphus			Gomphidae			Gomphus	
Ophiogomphus			Gomphidae			Ophiogomphus	
Progomphus			Gomphidae			Progomphus	
Libellulidae			Libellulidae				
Leucorrhinia			Libellulidae			Leucorrhinia	
Libellula			Libellulidae			Libellula	
Sympetrum			Libellulidae			Sympetrum	
Hetaerina			Calopterygidae			Hetaerina	
Coenagrionidae			Coenagrionidae				
Argia			Coenagrionidae			Argia	
Enallagma			Coenagrionidae			Enallagma	
Hesperagrion			Coenagrionidae			Hesperagrion	
Gryllidae							
Capniidae			Capniidae				
Capnia			Capniidae	Capniinae		Capnia	
Capnia confusa			Capniidae	Capniinae		Capnia	
Capnia gracilaria			Capniidae	Capniinae		Capnia	
Mesocapnia frisoni			Capniidae	Capniinae		Mesocapnia	
Leuctridae			Leuctridae				
Perlomyia			Leuctridae	Leuctrinae		Perlomyia	
Amphinemura			Nemouridae	Amphinemurinae		Amphinemura	
Amphinemura banksi			Nemouridae	Amphinemurinae		Amphinemura	
Malenka			Nemouridae	Amphinemurinae		Malenka	
Podmosta delicatula			Nemouridae	Nemourinae		Podmosta	
Prostoia besametsa			Nemouridae	Nemourinae		Prostoia	
Zapada			Nemouridae	Nemourinae		Zapada	
Zapada cinctipes			Nemouridae	Nemourinae		Zapada	
Zapada haysi			Nemouridae	Nemourinae		Zapada	
Taeniopterygidae			Taeniopterygidae				
Taenionema			Taeniopterygidae	Brachypterinae		Taenionema	
Taenionema pacificum			Taeniopterygidae	Brachypterinae		Taenionema	
Taeniopteryx			Taeniopterygidae	Taeniopteryginae		Taeniopteryx	
Chloroperlidae			Chloroperlidae				
Alloperla severa			Chloroperlidae	Chloroperlinae		Alloperla	
Plumiperla diversa			Chloroperlidae	Chloroperlinae		Plumiperla	
Suwallia			Chloroperlidae	Chloroperlinae		Suwallia	
Sweltsa			Chloroperlidae	Chloroperlinae		Sweltsa	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Sweltsa borealis			Chloroperlidae	Chloroperlinae		Sweltsa	
Triznaka			Chloroperlidae	Chloroperlinae		Triznaka	
Perlidae			Perlidae				
Acroneuria abnormis			Perlidae	Acroneuriinae	Acroneuriini	Acroneuria	
Hesperoperla pacifica			Perlidae	Acroneuriinae	Acroneuriini	Hesperoperla	
Claassenia sabulosa			Perlidae	Perlinae	Perlini	Claassenia	
Perlodidae			Perlodidae				
Isoperla			Perlodidae	Isoperlinae		Isoperla	
Isoperla mormona			Perlodidae	Isoperlinae		Isoperla	
Isoperla quinquepunctata			Perlodidae	Isoperlinae		Isoperla	
Isoperla sobria			Perlodidae	Isoperlinae		Isoperla	
Perlodinae			Perlodidae	Perlodinae			
Megarcys signata			Perlodidae	Perlodinae	Arcynopterygini	Megarcys	
Skwala americana			Perlodidae	Perlodinae	Arcynopterygini	Skwala	
Cultus aestivalis			Perlodidae	Perlodinae	Diploperlini	Cultus	
Kogotus modestus			Perlodidae	Perlodinae	Diploperlini	Kogotus	
Diura knowltoni			Perlodidae	Perlodinae	Perlodini	Diura	
Isogenoides			Perlodidae	Perlodinae	Perlodini	Isogenoides	
Isogenoides elongatus			Perlodidae	Perlodinae	Perlodini	Isogenoides	
Isogenoides zionensis			Perlodidae	Perlodinae	Perlodini	Isogenoides	
Pteronarcella badia			Pteronarcyidae	Pteronarcyinae	Pteronarcellini	Pteronarcella	
Pteronarcys californica			Pteronarcyidae	Pteronarcyinae	Pteronarcyini	Pteronarcys	
Agraylea			Hydroptilidae	Hydroptilinae	Hydroptilini	Agraylea	
Alisotrichia			Hydroptilidae	Hydroptilinae	Leucotrichiini		
Agapetus		Glossosomatoidea	Glossosomatidae	Agapetinae		Agapetus	
Anagapetus		Glossosomatoidea	Glossosomatidae	Glossosomatinae	Anagapetini	Anagapetus	
Glossosoma		Glossosomatoidea	Glossosomatidae	Glossosomatinae	Glossosomatini	Glossosoma	
Culoptila		Glossosomatoidea	Glossosomatidae	Protoptilinae		Culoptila	
Protoptila		Glossosomatoidea	Glossosomatidae	Protoptilinae		Protoptila	
Hydropsychidae		Hydropsychoidea	Hydropsychidae				
Arctopsyche grandis		Hydropsychoidea	Hydropsychidae	Arctopsychinae		Arctopsyche	
Diplectroninae		Hydropsychoidea	Hydropsychidae	Diplectroninae			
Ceratopsyche cockerelli		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Ceratopsyche	
Ceratopsyche oslari		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Ceratopsyche	
Ceratopsyche venada		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Ceratopsyche	
Cheumatopsyche		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Cheumatopsyche	
Hydropsyche		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Hydropsyche	
Hydropsyche occidentalis		Hydropsychoidea	Hydropsychidae	Hydropsychinae		Hydropsyche	
Smicridea		Hydropsychoidea	Hydropsychidae	Smicrideinae		Smicridea	
Neureclipsis		Hydropsychoidea	Polycentropodidae	Polycentropodinae		Neureclipsis	
Polyplectropus		Hydropsychoidea	Polycentropodidae	Polycentropodinae		Polyplectropus	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Polycentropus		Hydropsychoidea	Polycentropodidae	Polycentropodinae		Polycentropus	
Psychomyia		Hydropsychoidea	Psychomyiidae	Psychomiinae		Psychomyia	
Oxyethira		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Hydroptilini	Oxyethira	
Neotrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Neotrichiini	Neotrichia	
Metrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Ochrotrichiini	Metrichia	
Hydroptilidae		Hydroptiloidea	Hydroptilidae				
Hydroptila		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Hydroptilini	Hydroptila	
Ochrotrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Hydroptilini	Ochrotrichia	
Leucotrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Leucotrichiini	Leucotrichia	
Mayatrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Neotrichiini		
Ithytrichia		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Orthotrichiini	Ithytrichia	
Stactobiella		Hydroptiloidea	Hydroptilidae	Hydroptilinae	Stactobiini	Stactobiella	
Phylloicus aeneus		Leptoceroidea	Calamoceratidae	Calamoceratinae		Phylloicus	
Leptoceridae		Leptoceroidea	Leptoceridae				
Ceraclea		Leptoceroidea	Leptoceridae	Leptocerinae	Athripsodini	Ceraclea	
Oecetis		Leptoceroidea	Leptoceridae	Leptocerinae	Athripsodini	Oecetis	
Nectopsyche		Leptoceroidea	Leptoceridae	Leptocerinae	Nectopsychini	Nectopsyche	
Odontoceridae		Leptoceroidea	Odontoceridae				
Apataniidae		Limnephiloidea	Apataniidae				
Amiocentrus		Limnephiloidea	Brachycentridae			Amiocentrus	
Ecclisomyia		Limnephiloidea	Limnephilidae	Dicosmoecinae		Ecclisomyia	
Homophylax		Limnephiloidea	Limnephilidae	Limnephilinae	Chilostigmini	Homophylax	
Psychoglypha		Limnephiloidea	Limnephilidae	Limnephilinae	Chilostigmini	Psychoglypha	
Clistoronia		Limnephiloidea	Limnephilidae	Limnephilinae	Limnephilini	Clistoronia	
Brachycentridae		Limnephiloidea	Brachycentridae				
Brachycentrus		Limnephiloidea	Brachycentridae			Brachycentrus	
(Oligoplectrodes) americanus		Limnephiloidea	Brachycentridae			Brachycentrus	Oligoplectrodes
(Sphinctogaster) occidentalis		Limnephiloidea	Brachycentridae			Brachycentrus	Sphinctogaster
Micrasema		Limnephiloidea	Brachycentridae			Micrasema	
Lepidostomatidae		Limnephiloidea	Lepidostomatidae				
Lepidostoma		Limnephiloidea	Lepidostomatidae	Lepidostomatinae		Lepidostoma	
Limnephilidae		Limnephiloidea	Limnephilidae				
Dicosmoecus		Limnephiloidea	Limnephilidae	Dicosmoecinae		Dicosmoecus	
Hesperophylax		Limnephiloidea	Limnephilidae	Limnephilinae	Limnephilini	Hesperophylax	
Limnephilus		Limnephiloidea	Limnephilidae	Limnephilinae	Limnephilini	Limnephilus	
Psychoronia		Limnephiloidea	Limnephilidae	Limnephilinae	Limnephilini	Psychoronia	
Oligophlebodes		Limnephiloidea	Uenoidae	Thremmatinae		Oligophlebodes	
Neothremma		Limnephiloidea	Uenoidae	Uenoinae		Neothremma	
Chimarra		Philopotamoidea	Philopotamidae	Chimarrinae		Chimarra	

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Dolophilodes		Philopotamoidea	Philopotamidae	Philopotaminae		Dolophilodes	
Wormaldia		Philopotamoidea	Philopotamidae	Philopotaminae		Wormaldia	
Hydrobiosidae		Rhyacophiloidea	Hydrobiosidae				
Atopsyche		Rhyacophiloidea	Hydrobiosidae	Hydrobiosinae	Hydrobiosini	Atopsyche	
Rhyacophilidae		Rhyacophiloidea	Rhyacophilidae				
Rhyacophila		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila brunea		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila coloradensis		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila hyalinata		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila sibirica		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila tucula		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila valuma		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Rhyacophila verrula		Rhyacophiloidea	Rhyacophilidae			Rhyacophila	
Helicopsyche (Feropsyche) borealis		Sericostomatoidea	Helicopsychidae			Helicopsyche	Feropsyche
Gumaga		Sericostomatoidea	Sericostomatidae			Gumaga	
Daphniidae	Anomopoda		Daphniidae				
Hydrachnidae			Hydrachnidae				
Ostracoda							
Gammaridae			Gammaridae				
Gammarus lacustris			Gammaridae			Gammarus	
Hyalella azteca			Hyalellidae			Hyalella	
Orconectes virilis	Stenopodidea	Astacoidea					
Asellidae			Asellidae				
Caecidotea			Asellidae			Caecidotea	
Gastropoda							
Bivalvia							
Physella virgata			Physidae			Physella	
Ancylidae			Ancylidae			Ferrissia	
Ferrissia			Ancylidae			Ferrissia	
Lymnaea			Lymnaeidae			Lymnaea	
Physidae			Physidae				
Physa			Physidae			Physa	
Physella			Physidae			Physella	
Planorbidae			Planorbidae				
Gyraulus			Planorbidae			Gyraulus	
Helisoma anceps			Planorbidae			Helisoma	
Corbicula		Corbiculoidea	Corbiculidae			Corbicula	
Pisidiidae		Corbiculoidea	Pisidiidae				
Pisidium		Corbiculoidea	Pisidiidae			Pisidium	
Nemata							

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Final ID	InfraOrder	SuperFamily	Family	SubFamily	Tribe	Genus	SubGenus
Gordius			Gordiidae			Gordius	
Turbellaria							
Phagocata crenophila			Planariidae			Phagocata	
Polycelis coronata			Planariidae			Polycelis	
Tricladida							

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Hirudinea			10	Predator	
Oligochaeta			8	Collector	
Erpobdella			10	Predator	
Limnodrilus			8	Collector	
Naididae			8	Collector	Burrower
Ophidonais serpentina	serpentina		8	Collector	Burrower
Tubificidae			8	Collector	Burrower
Lumbriculidae			8	Collector	Burrower
Amphizoidae				Predator	
Dytiscidae			5	Predator	Climber
Dytiscus			4	Predator	Swimmer
Hydaticus			9	Predator	Swimmer
Agabus			8	Predator	Swimmer
Hydroporus			5	Predator	Swimmer
Oreodytes			5	Predator	Swimmer
Laccophilus			5	Predator	Swimmer
Dineutus			4	Predator	Swimmer
Gyrinus			5	Predator	Swimmer
Haliplidae			7	Shredder	Clinger
Haliplus			8	Shredder	Climber
Peltodytes			8	Shredder	Climber
Noteridae			7	Predator	Climber
Lampyridae				Collector	
Chrysomelidae			4	Collector	Clinger
Curculionidae			6	Collector	Clinger
Helichus			5	Shredder	Clinger
Helichus striatus	striatus		5	Shredder	
Postelichus immsi	immsi			Shredder	
Elmidae			4	Collector	Clinger
Cleptelmis			4	Collector	Clinger
Dubiraphia			6	Collector	Clinger
Heterelmis			4	Collector	Clinger
Heterlimnius corpulentus	corpulentus		4	Collector	Clinger
Microcylloepus			3	Shredder	Clinger
Narpus			4	Shredder	Clinger
Optioservus			4	Scraper	Clinger
Zaitzevia parvula	parvula		4	Scraper	
Psephenidae			4	Scraper	Clinger
Psphenus			4	Scraper	
Hydrochus			6	Collector	Swimmer
Helochares			4	Collector	

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Hydrophilidae			5	Predator	Swimmer
Berosus			5	Collector	Swimmer
Cymbiodyta			5	Collector	Burrower
Hydrobius			8	Collector	Climber
Tropisternus			5	Collector	Climber
Poduridae			8	Collector	
Copepoda			8	Filterer	
Agathon			0	Scraper	Clinger
Chaetocladius			8	Collector	Sprawler
Saetheria			8	Collector	Burrower
Tribelos			8	Collector	Burrower
Stempellinella			8	Collector	Clinger
Ephydridae			6	Collector	Burrower
Dolichopodidae			4	Predator	Sprawler
Empididae			6	Predator	Sprawler
Clinocera			6	Predator	Clinger
Chelifera			6	Predator	Sprawler
Hemerodromia			6	Predator	Sprawler
Muscidae			6	Predator	Sprawler
Limnophora			6	Predator	Burrower
Stratiomyidae			8	Collector	Sprawler
Euparyphus			5	Collector	Sprawler
Odontomyia			7	Collector	Sprawler
Atherix pachypus	pachypus		4	Predator	
Tabanidae			6	Predator	Sprawler
Chrysops			6	Predator	Sprawler
Tabanus			6	Predator	Sprawler
Deuterophlebia coloradensis	coloradensis		0	Scraper	
Blephariceridae			0	Scraper	Clinger
Bibiocephala grandis	grandis		0	Scraper	
Ceratopogonidae			6	Predator	Sprawler
Bezzia			6	Predator	Burrower
Atrichopogon			6	Predator	Sprawler
Chironomidae			8	Collector	Burrower
Chironominae			8	Collector	
Chironomus			8	Collector	Burrower
Chironomus plumosus	plumosus		8	Collector	
Cryptochironomus			8	Predator	Sprawler
Cryptotendipes			8	Collector	Burrower
Dicrotendipes			8	Collector	Burrower
Glyptotendipes			8	Collector	Burrower

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Microtendipes			8	Collector	Clinger
Paracladopelma			8	Collector	Sprawler
Paratendipes			8	Collector	Burrower
Phaenopsectra			8	Scraper	Burrower
Polypedilum			8	Shredder	Climber
Stictochironomus			8	Collector	Burrower
Pseudochironomus			5	Collector	Burrower
Cladotanytarsus			8	Collector	Climber
Micropsectra			8	Collector	Climber
Paratanytarsus			6	Collector	Sprawler
Rheotanytarsus			8	Collector	Clinger
Stempellina			8	Collector	Climber
Sublettea			8	Collector	
Tanytarsus			6	Collector	Climber
Diamesa			8	Collector	Sprawler
Pagastia			8	Collector	
Potthastia			2	Collector	Sprawler
Potthastia longimana	longimana		8	Collector	Sprawler
Pseudodiamesa			8	Collector	Sprawler
Orthocladiinae			8	Collector	Burrower
Heterotrissocladius			8	Collector	Sprawler
Paratrissocladius			8	Collector	Sprawler
Corynoneura			8	Collector	Sprawler
Thienemanniella			6	Collector	Sprawler
Brillia			8	Shredder	Burrower
Cardiocladius			8	Predator	Clinger
Cricotopus			8	Shredder	Clinger
Cricotopus (Nostococladius) nostocicola	nostocicola		8	Shredder	
Eukiefferiella			8	Collector	Sprawler
Hydrobaenus			8	Scraper	Sprawler
Limnophyes			8	Collector	Sprawler
Lopescladius			8	Shredder	Sprawler
Metriocnemus			8	Collector	Burrower
Nanocladius			8	Collector	Sprawler
Orthocladius			8	Collector	Sprawler
Orthocladius (Symposiocladius)			8	Shredder	
Parakiefferiella			8	Collector	Sprawler
Parametriocnemus			8	Collector	Sprawler

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Paraphenocladius			8	Collector	Sprawler
Pseudosmittia			8	Collector	Sprawler
Rheocricotopus			8	Collector	Sprawler
Stilocladius			8	Collector	Sprawler
Synorthocladius			8	Collector	
Tvetenia			8	Collector	Sprawler
Podonominae			8	Collector	
Parochlus kiefferi	kiefferi		8	Collector	
Monodiamesa			8	Collector	Sprawler
Odontomesa			4	Scraper	Sprawler
Prodiamesa			8	Collector	Burrower
Tanypodinae			8	Collector	Burrower
Macropelopia			8	Predator	Sprawler
Radotanypus			11	Collector	
Ablabesmyia			8	Predator	Sprawler
Nilotanypus			6	Collector	Sprawler
Paramerina			8	Collector	Sprawler
Pentaneura			8	Predator	Sprawler
Thienemannimyia			8	Predator	Sprawler
Zavrelimyia			8	Collector	Sprawler
Procladius			8	Predator	Sprawler
Tanypus			8	Collector	Sprawler
Culicidae			8	Filterer	Swimmer
Culiseta				Filterer	Swimmer
Dixidae			1	Filterer	Swimmer
Dixa			1	Filterer	Swimmer
Dixella			8	Filterer	Swimmer
Simuliidae			6	Collector	Clinger
Prosimulium			6	Collector	Clinger
Simulium			6	Collector	Clinger
Maruina			10	Scraper	Clinger
Pericoma			4	Collector	Burrower
Ptychopteridae			8	Collector	Burrower
Protanyderus			8	Collector	Sprawler
Protoplasa fitchii	fitchii		8	Collector	
Cryptolabis			3	Predator	Burrower
Molophilus			3	Shredder	Burrower
Prionocera			3	Shredder	
Tipulidae			3	Shredder	Burrower
Hesperoconopa			3	Shredder	Burrower
Ormosia			3	Predator	Burrower

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Rhabdomastix			3	Predator	Sprawler
Hexatoma			2	Predator	Burrower
Limnophila			3	Shredder	Burrower
Antocha monticola	monticola		3	Collector	
Limonia			3	Shredder	Burrower
Dicranota			3	Predator	Sprawler
Pedicia			3	Predator	Burrower
Holorusia grandis	grandis		3	Shredder	
Tipula			4	Shredder	Burrower
Caudatella heterocaudata heterocaudata	heterocaudata	heterocaudata	1	Scraper	
Paraleptophlebia			1	Collector	Swimmer
Thraulodes			2	Collector	Clinger
Traverella			4	Filterer	Clinger
Caenis			7	Collector	Sprawler
Ephemerellidae			1	Collector	Clinger
Drunella coloradensis	coloradensis		1	Scraper	Clinger
Drunella doddsi	doddsi		1	Scraper	Clinger
Drunella grandis	grandis		1	Scraper	Clinger
Drunella spinifera	spinifera		1	Scraper	Clinger
Ephemerella			1	Collector	Clinger
Ephemerella altana	altana		1	Shredder	
Ephemerella inermis	inermis		1	Collector	Clinger
Ephemerella infrequens	infrequens		1	Shredder	Clinger
Serratella tibialis	tibialis		1	Collector	Clinger
Timpanoga hecuba	hecuba		1	Scraper	Clinger
Leptohyphidae			4	Collector	
Leptohyphes			4	Collector	Clinger
Tricorythodes			4	Collector	Sprawler
Tricorythodes minutus	minutus		4	Collector	Clinger
Centroptilum			2	Collector	Clinger
Ameletus			0	Collector	Swimmer
Acentrella insignificans	insignificans		4	Collector	Swimmer
Baetis			4	Collector	Swimmer
Baetis bicaudatus	bicaudatus		4	Collector	Climber
Baetis tricaudatus	tricaudatus		4	Collector	Swimmer
Diphetor hageni	hageni		4	Collector	Clinger
Siphlonurus occidentalis	occidentalis		7	Collector	Swimmer
Heptageniidae			4	Scraper	Clinger
Cinygmula			4	Scraper	Clinger
Epeorus			0	Collector	Clinger

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Final ID	Species	SubSpecies	TolVal	FFG	Habit
Epeorus longimanus	longimanus		0	Collector	Clinger
Heptagenia			4	Scraper	Clinger
Heptagenia solitaria	solitaria		4	Scraper	
Nixe			4	Scraper	Clinger
Nixe simplicoides	simplicoides		4	Scraper	
Rhithrogena			0	Collector	Clinger
Rithrogena hageni	hageni		0	Collector	
Rhithrogena robusta	robusta		0	Collector	
Rhithrogena undulata	undulata		0	Collector	
Isonychia			2	Filterer	Swimmer
Lachlania			2	Filterer	Clinger
Tubifex			8	Collector	Burrower
Abedus			8	Predator	Climber
Belostoma			10	Predator	Climber
Lethocerus				Predator	Climber
Corixidae			10	Predator	Swimmer
Graptocorixa				Predator	Swimmer
Sigara			9	Predator	Swimmer
Trichocorixa			5	Predator	Swimmer
Gelastocoris				Predator	Sprawler
Gerridae			5	Predator	Skater
Gerris			6	Predator	Skater
Trepobates			10	Predator	Skater
Hydrometra				Predator	Skater
Macrovelia				Predator	Climber
Ambrysus mormon	mormon		5	Predator	
Notonectidae			8	Predator	
Notonecta			7	Predator	Swimmer
Veliidae			6	Predator	Skater
Microvelia			6	Predator	Skater
Rhagovelia			6	Predator	Skater
Noctuidae			5	Shredder	Burrower
Pyralidae			5	Shredder	Climber
Petrophilia			5	Shredder	Clinger
Corydalidae			3	Predator	Clinger
Neohermes			3	Predator	Clinger
Corydalus cornutus	cornutus		3	Predator	Clinger
Sialis			4	Predator	Burrower
Aeshnidae			5	Predator	Climber
Aeshna			5	Predator	Climber
Boyeria			5	Predator	Climber

Appendix F: Master Taxa List

Final ID	Species	SubSpecies	TolVal	FFG	Habit
Oplonaeschna			5	Predator	
Cordulegaster			3	Predator	Burrower
Gomphidae			3	Predator	Burrower
Erpetogomphus			3	Predator	Burrower
Gomphus			5	Predator	Burrower
Ophiogomphus			1	Predator	Burrower
Progomphus			3	Predator	Burrower
Libellulidae			9	Predator	Sprawler
Leucorrhinia			9	Predator	Climber
Libellula			9	Predator	Sprawler
Sympetrum			10	Predator	Sprawler
Hetaerina			6	Predator	Climber
Coenagrionidae			9	Predator	Climber
Argia			7	Predator	Clinger
Enallagma			9	Predator	Climber
Hesperagrion			5	Predator	Climber
Gryllidae			7	Shredder	
Capniidae			1	Shredder	Sprawler
Capnia			1	Shredder	Sprawler
Capnia confusa	confusa		1	Shredder	
Capnia gracilaria	gracilaria		1	Shredder	
Mesocapnia frisoni	frisoni		1	Shredder	
Leuctridae			0	Shredder	Sprawler
Perlomyia			0	Shredder	Sprawler
Amphinemura			2	Shredder	Sprawler
Amphinemura banksi	banksi		2	Shredder	
Malenka			2	Shredder	Sprawler
Podmosta delicatula	delicatula		2	Shredder	
Prostoia besametsa	besametsa		2	Shredder	Sprawler
Zapada			2	Shredder	Sprawler
Zapada cinctipes	cinctipes		2	Shredder	Clinger
Zapada haysi	haysi		2	Shredder	
Taeniopterygidae			2	Scraper	Sprawler
Taenionema			2	Scraper	Sprawler
Taenionema pacificum	pacificum		2	Scraper	
Taeniopteryx			2	Scraper	Sprawler
Chloroperlidae			1	Predator	Clinger
Alloperla severa	severa		1	Predator	
Plumiperla diversa	diversa		1	Predator	
Suwallia			1	Predator	Clinger
Sweltsa			1	Predator	Clinger

Appendix F: Master Taxa List

Final ID	Species	SubSpecies	TolVal	FFG	Habit
Sweltsa borealis	borealis		1	Predator	
Triznaka			1	Predator	Clinger
Perlidae			1	Predator	Clinger
Acroneuria abnormis	abnormis		0	Predator	
Hesperoperla pacifica	pacifica		1	Predator	Clinger
Claassenia sabulosa	sabulosa		1	Predator	Clinger
Perlodidae			2	Predator	Clinger
Isoperla			2	Predator	Clinger
Isoperla mormona	mormona		2	Predator	
Isoperla quinquepunctata	quinquepunctata		2	Predator	
Isoperla sobria	sobria		2	Predator	
Perlodinae			2	Predator	
Megarcys signata	signata		2	Predator	
Skwala americana	americana		2	Predator	
Cultus aestivalis	aestivalis		2	Predator	
Kogotus modestus	modestus		2	Predator	
Diura knowltoni	knowltoni		2	Predator	Clinger
Isogenoides			0	Predator	
Isogenoides elongatus	elongatus		0	Predator	
Isogenoides zionensis	zionensis		0	Predator	
Pteronarcella badia	badia		0	Shredder	Clinger
Pteronarcys californica	californica		0	Shredder	Clinger
Agraylea			8	Piercer	Clinger
Alisotrichia			4	Scraper	
Agapetus			0	Scraper	Clinger
Anagapetus			0	Scraper	Clinger
Glossosoma			0	Scraper	Clinger
Culoptila			1	Scraper	Clinger
Protoptila			1	Scraper	Clinger
Hydropsychidae			4	Filterer	Clinger
Arctopsyche grandis	grandis		2	Filterer	Clinger
Diplectroninae			0	Filterer	
Ceratopsyche cockerelli	cockerelli		5	Filterer	
Ceratopsyche oslari	oslari		5	Filterer	
Ceratopsyche venada	venada		5	Filterer	
Cheumatopsyche			5	Filterer	Clinger
Hydropsyche			5	Filterer	Clinger
Hydropsyche occidentalis	occidentalis		5	Filterer	
Smicridea			5	Filterer	Clinger
Neureclipsis			5	Predator	Clinger
Polyplectropus			6	Predator	

Appendix F: Master Taxa List

Final ID	Species	SubSpecies	TolVal	FFG	Habit
Polycentropus			6	Predator	Clinger
Psychomyia			2	Collector	Clinger
Oxyethira			3	Piercer	Clinger
Neotrichia			2	Scraper	Clinger
Metrichia			4	Scraper	
Hydroptilidae			4	Scraper	Clinger
Hydroptila			4	Scraper	Clinger
Ochrotrichia			4	Collector	Clinger
Leucotrichia			2	Scraper	Clinger
Mayatrichia			4	Scraper	Clinger
Ithytrichia			4	Scraper	Clinger
Stactobiella			4	Collector	Climber
Phylloicus aeneus	aeneus		4	Shredder	
Leptoceridae			4	Collector	Climber
Ceraclea			4	Shredder	Sprawler
Oecetis			8	Predator	Clinger
Nectopsyche			4	Shredder	Climber
Odontoceridae			3	Scraper	Sprawler
Apataniidae			4	Shredder	
Amiocentrus			1	Collector	Clinger
Ecclisomyia			4	Collector	Clinger
Homophylax			4	Shredder	
Psychoglypha			0	Collector	Clinger
Clistoronia			4	Collector	
Brachycentridae			1	Filterer	Clinger
Brachycentrus			1	Filterer	Clinger
(Oligoplectrodes) americanus	americanus		1	Filterer	
(Sphinctogaster) occidentalis	occidentalis		1	Filterer	Clinger
Micrasema			1	Shredder	Clinger
Lepidostomatidae			1	Shredder	Climber
Lepidostoma			1	Shredder	Climber
Limnephilidae			4	Shredder	Climber
Dicosmoecus			4	Scraper	Sprawler
Hesperophylax			3	Shredder	Sprawler
Limnephilus			3	Shredder	Climber
Psychoronia			2	Shredder	Sprawler
Oligophlebodes			4	Scraper	Clinger
Neothremma			4	Scraper	Clinger
Chimarra			4	Filterer	Clinger

Appendix F: Master Taxa List

Final ID	Species	SubSpecies	TolVal	FFG	Habit
Dolophilodes			2	Filterer	Clinger
Wormaldia			0	Filterer	Clinger
Hydrobiosidae			0	Predator	
Atopsyche			0	Predator	Clinger
Rhyacophilidae			0	Predator	Clinger
Rhyacophila			0	Predator	Clinger
Rhyacophila brunea			0	Predator	
Rhyacophila coloradensis	coloradensis		0	Predator	Clinger
Rhyacophila hyalinata	hyalinata		0	Predator	Clinger
Rhyacophila sibirica	sibirica		0	Predator	
Rhyacophila tucula	tucula		0	Predator	
Rhyacophila valuma	valuma		0	Predator	
Rhyacophila verrula	verrula		0	Predator	Clinger
Helicopsyche (Feropsyche) borealis	borealis		3	Scraper	
Gumaga			3	Shredder	Sprawler
Daphniidae			6	Filterer	
Hydrachnidae			8	Predator	
Ostracoda			8	Filterer	
Gammaridae			4	Collector	
Gammarus lacustris	lacustris		4	Collector	
Hyalella azteca	azteca		8	Collector	
Orconectes virilis			6	Collector	
Asellidae			8	Collector	
Caecidotea			8	Collector	
Gastropoda			8	Scraper	
Bivalvia			6	Filterer	
Physella virgata	virgata		8	Scraper	
Ancylidae			6	Scraper	
Ferrissia			8	Scraper	Clinger
Lymnaea			6	Scraper	
Physidae			8	Scraper	
Physa			8	Scraper	
Physella			8	Scraper	
Planorbidae			8	Scraper	
Gyraulus			8	Scraper	
Helisoma anceps	anceps		8	Scraper	
Corbicula			6	Filterer	
Pisidiidae			6	Filterer	
Pisidium			6	Filterer	
Nemata			8	Predator	

Appendix F: Master Taxa List

Final ID	Species	SubSpecies	TolVal	FFG	Habit
Gordius			8	Predator	
Turbellaria			4	Collector	
Phagocata crenophila	crenophila		4	Collector	
Polycelis coronata	coronata		4	Collector	
Tricladida			4	Collector	

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Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
23	28 ed iv014.5	11/25/1980	en 01a	98.95833333	0	0.220610767	1.141227823	63.02083333	56.77083333	0	0	0
24	28 ed iv024.9	11/25/1980	en 01a	79.78835979	0	0.34514178	3.065163212	79.78835979	73.12169312	0	9.947089947	0
25	28 ed iv027.8	11/25/1980	en 01a	92.15116279	0	0.292024754	2.738046503	69.47674419	56.58914729	0	0	0
26	28 ed iv028.5	11/25/1980	en 01a	86.56387665	0	0.335497529	1.961394141	78.85462555	56.16740088	0	0	0
27	50 ecos 782.1	04/08/1981	en 01a	72.41735537	0	0.351684433	4.508938696	69.62809917	62.19008264	0	0.516528926	0
28	50 ecos 803.7	04/08/1981	en 01a	85.65737052	0	0.360952183	4.485117678	84.16334661	80.57768924	0	0.597609562	0
29	31 emez 046.9	04/11/1981	en 01a	86.83127572	0	0.256382886	2.366621989	23.45679012	23.45679012	0	2.469135802	0
30	31 Cebol000.1	04/11/1981	en 01a	85.73232323	0	0.342780607	3.296096733	55.80808081	55.80808081	0	0.126262626	0.378787879
31	31 acas000.5	04/11/1981	en 03	52.38095238	0	0.266058055	2.822764742	10.20408163	10.20408163	0	0.340136054	0
32	29 esum002.4	04/17/1981	en 01a	80.67226891	0	0.250748489	3.742937896	80.67226891	79.55182073	0	0	0
33	50 ecos 803.7	06/26/1981	en 01a	79.66804979	0	0.302582393	3.79742458	75.24204703	68.3264177	0	0.138312586	0
34	50 ecos 803.7	08/13/1981	en 03	82.88135593	0	0.291596895	3.761683237	82.54237288	78.47457627	0	1.355932203	0
35	29 esum002.4	09/25/1981	en 01a	84.36293436	0	0.267018605	3.200012676	84.16988417	83.01158301	0	0	0
36	31 emez 049.2	09/25/1981	en 01a	61.49870801	0	0.26040182	3.006808072	12.53229974	12.40310078	0	2.454780362	0.129198966
37	31 Cebol000.1	09/25/1981	en 01a	80.5907173	0.210970464	0.384008161	4.057646285	44.092827	41.13924051	0	0.843881857	0.210970464
38	31 acas004.2	09/25/1981	en 01a	83.44481605	0.668896321	0.277237731	2.971726019	15.2173913	15.2173913	0	1.337792642	0.16722408
39	50 ecos 803.7	10/07/1981	en 01a	88.80105402	0	0.279163715	4.22195303	86.29776021	76.8115942	0	1.712779974	0
40	77 obble001.9	05/29/1986	en 01a	63.18181818	0	0.367853077	3.151867617	61.36363636	60.45454545	0	0	0.909090909
41	77 ogoll038.8	05/29/1986	en 01a	53.01724138	0	0.4305791	3.855519106	51.72413793	51.29310345	0	0	0
42	77TrailC000.1	05/29/1986	en 01a	67.54176611	0	0.270897488	2.484319423	67.30310263	66.34844869	0	0	0.715990453
43	77 ogoll037.2	05/30/1986	en 01a	60.91269841	0	0.292039243	3.374807973	60.91269841	60.71428571	0	0	0.198412698
44	77 ogoll042.0	05/31/1986	en 01a	15.42416452	0	0.159815378	2.179898891	15.42416452	15.42416452	0	0	0
45	77 ogoll029.9	06/01/1986	en 01a	74.19354839	0	0.36206905	2.296322564	73.11827957	73.11827957	0	0	0
46	07 ora i170.9	07/15/1986	en 01a	64.47091801	0	0.308968429	2.478202277	53.25858444	52.41765943	0	0.420462509	0
47	77TrailC000.1	10/07/1986	en 01a	32.19814241	0	0.404380883	4.327017031	32.19814241	28.48297214	0	0	5.263157895
48	77TrailC000.1	10/08/1986	en 01a	35.12658228	0	0.421594265	4.517228019	35.12658228	32.91139241	0	0.316455696	6.329113924
49	28 Costi025.6	03/31/1987	en 01a	71.58469945	0	0.470393386	3.07132019	67.21311475	46.44808743	0	0.546448087	0
50	48Three 033.3	06/02/1987	en 01a	55.26315789	0	0.409548337	1.374537889	42.10526316	42.10526316	0	23.68421053	0
51	48Three 047.6	06/02/1987	en 01a	55.35714286	0	0.392196753	1.738978489	44.64285714	44.64285714	0	0	0
52	48Three 057.1	06/02/1987	en 01a	89.47368421	0	0.454452924	2.720717416	87.71929825	87.71929825	0	3.50877193	0
53	80Tularo029.6	06/02/1987	en 01a	66.66666667	0	0.579380164	0.910239227	66.66666667	66.66666667	0	0	0
54	50Tecolo042.3	06/08/1987	en 01a	70.68965517	0.862068966	0.500776517	4.207346278	59.48275862	59.48275862	0	0.862068966	3.448275862
55	50Tecolo065.6	06/08/1987	en 01a	66.76646707	0	0.44426287	4.129997883	55.68862275	50.5988024	0	0.598802395	0
56	50Tecolo066.9	06/08/1987	en 01a	59.5959596	0	0.429943918	4.039529686	37.37373737	37.03703704	0	0	0.673400673
57	50Tecolo072.3	06/08/1987	en 01a	68.35443038	0	0.446808992	3.657604248	66.66666667	56.54008439	0	0	0
58	49 acram049.1	06/23/1987	en 01a	90.24390244	0	0.263529284	1.6624467	90.24390244	90.24390244	0	0	0
59	49 acram051.6	06/23/1987	en 01a	92.99363057	0	0.323565875	2.175527145	92.99363057	92.99363057	0	3.821656051	0
60	49 acram061.8	06/23/1987	en 01a	68.59903382	0	0.389924533	2.437780896	68.11594203	68.11594203	0	29.46859903	0
61	49 acram066.9	06/23/1987	en 01a	82.95454545	0.568181818	0.373822639	3.094487869	81.25	81.25	0	5.681818182	0.568181818
62	49 acram068.7	06/23/1987	en 01a	42.34693878	0	0.320703213	1.894615908	42.34693878	42.34693878	0	31.63265306	0
63	49 acrom060.3	06/23/1987	en 01a	76.66666667	0	0.139360313	0.9624005	74.50980392	74.50980392	0	0	0
64	49 cott 000.1	06/23/1987	en 01a	93.44262295	0	0.403693902	1.702800969	72.13114754	72.13114754	0	0	0
65	80 anFra028.6	07/07/1987	en 01a	80	0.666666667	0.444054888	3.39278335	68	68	0	1.333333333	0.666666667
66	80 anFra049.1	07/07/1987	en 01a	57.771261	0	0.341197638	2.91501073	36.95014663	36.95014663	0	0	0
67	80 anFra105.7	07/07/1987	en 01a	83.33333333	0	0.376611391	3.218902298	83.06010929	60.6557377	0	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
68	80 anFra115.7	07/07/1987	en 01a	89.91596639	0	0.346310897	2.741092481	89.49579832	50.84033613	0	0	0
69	80 anFra154.1	07/07/1987	en 01a	70.03257329	0	0.393972472	3.666938764	50.81433225	50.81433225	0	0.325732899	0
70	80Tularo029.6	07/07/1987	en 01a	68.42105263	0	0.509120989	4.574021325	56.84210526	56.84210526	0	0	1.052631579
71	80 hitew000.5	07/07/1987	en 01a	71.96969697	6.060606061	0.492398563	3.072006655	60.60606061	60.60606061	0	8.333333333	0.757575758
72	77 Fk il000.1	07/22/1987	en 01a	85.82089552	0	0.441404261	3.266746291	61.94029851	61.94029851	0	0	0
73	77 ila i131.3	07/22/1987	en 01a	86.09865471	0.224215247	0.345948791	3.770294665	68.16143498	68.16143498	0	0.224215247	0
74	77 ogoll042.0	07/22/1987	en 01a	59.97854077	0	0.281909378	3.071373088	59.97854077	59.12017167	0	0	0
75	77 Fk il000.3	07/22/1987	en 01a	78.57142857	0.892857143	0.500245866	3.814772556	50	50	0	0.892857143	0
76	78 ila i074.8	07/22/1987	en 01a	80.74712644	0.574712644	0.357738744	3.075765075	48.85057471	48.85057471	0	0.574712644	0
77	77 ogoll038.8	07/24/1987	en 01a	60.16096579	0	0.414591326	4.187746314	58.3501006	56.53923541	0	0	0.402414487
78	29Canada005.6	08/08/1987	en 01a	66.22073579	0	0.357103949	2.806799119	66.22073579	66.22073579	0	0.334448161	0
79	28NFkTes002.1	09/15/1987	en 01a	93.29268293	0	0.419156134	4.488164841	87.5	86.8902439	0	0	0
80	28 Nambe005.1	09/15/1987	en 01a	80.35714286	0	0.436044856	4.969129634	59.64285714	55.71428571	0	0	0
81	28 Nambe005.1	09/15/1987	en 01a	77.59562842	0	0.44454252	4.031107749	49.72677596	42.07650273	0	0	0
82	77 ogoll038.8	09/15/1987	en 01a	46.21212121	0	0.362531	3.509277734	43.93939394	40.34090909	0	0	0.946969697
83	77TrailC000.1	09/15/1987	en 01a	50.71428571	0	0.484593288	3.440151785	50.71428571	40.71428571	0	0	3.571428571
84	50 l orv000.1	09/22/1987	en 01a	35.45611015	0	0.338674601	2.985191522	33.21858864	32.70223752	0	7.056798623	0
85	50 l orv004.8	09/22/1987	en 01a	71.60326087	0	0.365806808	3.564389246	65.82880435	50.95108696	0	3.260869565	0
86	50 allin119.7	09/22/1987	en 01a	50.11441648	0	0.37686112	3.838726039	26.08695652	25.05720824	0	1.258581236	0
87	50 allin131.8	09/22/1987	en 01a	64.63560335	0	0.390158499	4.30917654	47.19235364	34.64755078	0	0.716845878	0
88	50 allin141.9	09/22/1987	en 01a	84.55743879	0	0.463494173	4.14358344	74.95291902	58.94538606	0	1.694915254	0
89	50Tecolo071.6	09/27/1987	en 01a	38.5620915	0	0.348134804	4.20774918	36.76470588	31.69934641	0	1.633986928	0
90	50Tecolo072.0	09/27/1987	en 01a	43.08681672	0	0.343143861	3.948288995	42.76527331	35.69131833	0	2.572347267	0
91	50Tecolo072.8	09/27/1987	en 01a	60.70686071	0	0.401056968	4.371855615	59.45945946	45.32224532	0	1.247401247	0
92	50Tecolo074.1	09/27/1987	en 01a	70.90909091	0	0.353416446	3.654678744	70.48128342	49.41176471	0	4.598930481	0
93	50 right000.6	09/27/1987	en 01a	17.85714286	0.162337662	0.257331715	3.892112532	17.20779221	14.12337662	0	1.785714286	0
94	50 right001.0	09/27/1987	en 01a	49.57983193	1.422107304	0.268434251	3.676434119	49.51519069	46.47705236	0	9.049773756	0
95	50 right002.6	09/27/1987	en 01a	71.86147186	0	0.409566399	4.04232111	70.995671	70.56277056	0	2.597402597	0
96	31 emez 043.1	10/13/1987	en 01a	65.88235294	0	0.361037056	3.431152272	35.88235294	28.82352941	0	0.882352941	0
97	31 emez 046.9	10/13/1987	en 01a	66.12903226	0	0.305823856	2.739030377	29.23387097	21.16935484	0	0	0
98	31 emez 058.9	10/13/1987	en 01a	78.73239437	0	0.247651957	2.437068431	78.73239437	27.18309859	0	0.281690141	0
99	31 emez 071.3	10/13/1987	en 01a	77.38927739	0	0.353274297	3.553132004	37.87878788	31.23543124	0	0	0.116550117
100	31 uada000.1	10/13/1987	en 01a	33.21342926	0.119904077	0.223823886	2.676089116	18.46522782	16.78657074	0	0.119904077	0.239808153
101	04Canadi429.9	03/21/1988	en 01a	75.36231884	0	0.370615059	3.000345719	25.60386473	25.60386473	0	0	0.483091787
102	06Canadi232.6	03/21/1988	en 01a	21.40381282	0	0.15308093	2.269185073	11.17850953	11.17850953	0	0.606585789	8.67 -02
103	06Canadi274.8	03/21/1988	en 01a	45.41723666	0	0.239338766	2.123009133	23.25581395	23.25581395	0	0.136798906	0.410396717
104	06Canadi348.3	03/21/1988	en 01a	29.18454936	0	0.268185486	2.278576989	19.95708155	19.95708155	0	0.214592275	0
105	04Canadi409.4	03/23/1988	en 01a	81.40703518	0	0.311897021	2.644850517	76.38190955	76.38190955	0	0	0
106	50Tecolo071.6	04/07/1988	en 01a	38.02816901	0	0.374741513	4.509880646	38.02816901	34.00402414	0	7.645875252	0
107	50Tecolo072.0	04/07/1988	en 01a	49.52531646	0	0.418643537	5.272225638	49.20886076	43.82911392	0	2.215189873	0
108	50Tecolo072.8	04/07/1988	en 01a	58.59030837	0	0.432934865	5.058585854	58.14977974	48.60499266	0	0.734214391	0
109	50Tecolo074.1	04/07/1988	en 01a	50.3659348	0	0.310840536	3.827636922	50.3659348	41.45043247	0	1.929474385	0
110	50 right000.6	04/07/1988	en 01a	42.33128834	0	0.287778663	3.857998161	40.79754601	38.34355828	0	1.687116564	0
111	50 right000.7	04/07/1988	en 01a	32.98611111	0	0.336325421	3.993153801	32.75462963	26.85185185	0	3.356481481	0
112	50 right002.6	04/07/1988	en 01a	6.145251397	0	0.316692689	3.277180575	6.145251397	4.469273743	0	10.61452514	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
113	50 l orv004.8	04/12/1988	en 01a	64.41947566	0	0.338426656	4.588772151	60.29962547	57.4906367	0	4.775280899	0
114	50 l orv000.1	04/14/1988	en 01a	13.84180791	0	0.200521771	3.16996908	13.48870056	13.4180791	0	6.355932203	0
115	50 allin119.7	04/14/1988	en 01a	52.95055821	0	0.416683899	4.812957196	40.35087719	40.35087719	0	9.728867624	0.159489633
116	50 allin131.8	04/14/1988	en 01a	46.59090909	0	0.321558012	3.896797756	36.74242424	24.84848485	0	3.257575758	0
117	50 allin141.9	04/14/1988	en 01a	68.84920635	0	0.475067289	4.981859388	64.68253968	57.34126984	0	6.150793651	0
118	57Corriz001.3	05/10/1988	en 01a	45.23809524	0	0.438805866	2.140371091	45.23809524	45.23809524	0	2.380952381	2.380952381
119	57Corriz001.4	05/10/1988	en 01a	89.75501114	0	0.245930345	2.128696787	59.24276169	59.24276169	0	0	0.222717149
120	57 rinds001.5	05/10/1988	en 01a	62.5	0	0.436009472	2.164042561	53.125	53.125	0	0	15.625
121	57 uido044.4	05/10/1988	en 01a	83.77192982	0	0.231211483	1.657658328	80.26315789	80.26315789	0	0	0
122	57 uido045.1	05/10/1988	en 01a	96.23430962	0.418410042	0.352270254	2.556394262	74.89539749	64.0167364	0	0.418410042	0.418410042
123	29 Chama165.4	06/01/1988	en 01a	67.39130435	0	0.297612022	3.216970511	64.94565217	58.15217391	0	0.384963768	0
124	29 Chama166.4	06/14/1988	en 01a	66.8202765	0	0.389907195	3.15991159	64.51612903	63.13364055	0	0.460829493	0
125	29 Chama166.4	06/14/1988	en 01a	73.80952381	0	0.491833018	3.308326584	72.22222222	69.04761905	0	0	0
126	29 Chami002.6	06/14/1988	en 01a	70.85427136	0	0.373721081	3.507920882	66.33165829	62.31155779	0	6.783919598	0
127	29 Chami017.8	06/14/1988	en 01a	62.37113402	0	0.345431417	3.227118022	59.79381443	48.96907216	0	0.515463918	0
128	29 e toC000.1	06/14/1988	en 01a	55.68181818	0	0.436780461	3.481298853	30.11363636	22.15909091	0	8.522727273	0.568181818
129	29NaborC003.6	06/15/1988	en 01a	77.89046653	0	0.287774557	2.902987399	30.02028398	29.20892495	0	1.21703854	0
130	29 Chami004.0	06/15/1988	en 01a	84.22939068	0	0.315197201	3.374051756	29.390681	9.318996416	0	3.94265233	0
131	50Holy h011.1	06/21/1988	en 01a	86.7219917	0	0.221432533	1.618661454	86.7219917	86.7219917	0	4.771784232	0
132	50 insor006.9	06/21/1988	en 01a	68.57142857	0	0.410072179	4.197335879	66.32653061	47.55102041	0	1.224489796	0
133	50CaveCr003.4	06/22/1988	en 01a	65.55819477	0	0.432232748	4.30276019	62.47030879	37.52969121	0	4.038004751	0
134	50 scur002.4	06/22/1988	en 01a	59.53177258	0	0.392293568	3.508498899	59.53177258	34.44816054	0	0	0
135	50Horset003.4	06/23/1988	en 01a	65.54878049	0	0.456686581	4.142921392	51.82926829	32.31707317	0	2.743902439	0
136	50 Chima007.2	06/25/1988	en 01a	73.52941176	0	0.443868506	3.31959771	73.52941176	61.11111111	0	0.326797386	0
137	50 adre000.4	06/26/1988	en 01a	62.8742515	0	0.387329508	4.612341766	61.22754491	33.53293413	0	0.449101796	0
138	29 Chama157.0	06/29/1988	en 01a	77.02020202	0.252525253	0.347758017	3.510875398	69.6969697	21.21212121	0	0.252525253	0
139	29 Chama161.1	06/29/1988	en 01a	72.62569832	0	0.459079009	4.421367937	62.5698324	37.98882682	0	0.279329609	0
140	29 Chama165.4	06/29/1988	en 01a	66.92209451	0	0.377821325	4.202227582	64.49553001	57.72669221	0	0.383141762	0
141	29 Chami002.8	06/29/1988	en 01a	91.22807018	0	0.394420989	3.306322908	42.10526316	39.18128655	0	0.584795322	0
142	29 biqui001.8	07/11/1988	en 01a	60.25641026	0	0.463674216	2.295310611	56.41025641	56.41025641	0	0	2.564102564
143	29 Chama004.5	07/11/1988	en 01a	95.93908629	0	0.181757707	1.880342518	59.89847716	59.56006768	0	0.169204738	0
144	29 Chama050.4	07/11/1988	en 01a	22.02643172	0	0.1784158	0.653798047	22.02643172	22.02643172	0	0	0
145	29 Chama161.1	07/11/1988	en 01a	74.45887446	0	0.359253838	1.469934949	62.33766234	62.33766234	0	2.597402597	0
146	29 Chama019.3	07/12/1988	en 01a	92.62899263	0	0.210540881	1.497799935	91.15479115	91.15479115	0	3.931203931	0
147	29 Chama019.3	07/12/1988	en 01a	75.92592593	0	0.315588246	1.964839392	72.59259259	72.59259259	0	0	0
148	29 l ito000.7	07/13/1988	en 01a	68.42105263	0	0.625022562	2.377362903	52.63157895	52.63157895	0	10.52631579	0
149	29 oCa026.1	07/13/1988	en 01a	75.09778357	0.130378096	0.203605947	1.806552329	7.04041721	7.04041721	0	0.130378096	0.130378096
150	28 anCru019.1	07/19/1988	en 01a	76.57657658	0	0.391523583	3.331681447	64.41441441	61.71171171	0	0	0
151	28 Costi048.9	08/19/1988	en 01a	82.31611894	0	0.328459485	3.405623126	81.06416275	68.70109546	0	0.312989045	0
152	28 Costi052.2	08/19/1988	en 01a	59.67741935	0	0.34986886	3.602017598	57.99120235	29.98533724	0	7.33 -02	0
153	28 Costi055.5	08/19/1988	en 01a	68.60986547	0	0.247152969	2.361461644	68.53512706	68.08669656	0	1.046337818	0
154	28 Costi057.9	08/19/1988	en 01a	32.84993695	6.31 -02	0.279987121	3.664012545	30.45397226	27.30138714	0	0.504413619	0
155	30 FkFri000.1	09/15/1988	en 01a	69.23076923	0	0.405082698	3.70956392	68.52071006	62.24852071	0	9.467455621	0
156	30 Fri o018.4	09/15/1988	en 01a	64.35224386	0	0.391346969	4.523532878	58.2557155	52.41320914	0	7.197290432	8.47 -02
157	30 FkFri000.1	09/15/1988	en 01a	65.49560853	0	0.395588902	3.891717639	63.23713927	57.34002509	0	7.151819322	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
158	28 ed iv014.5	09/21/1988	en 01a	100	0	0.403908957	1.176056415	100	66.66666667	0	0	0
159	28 ed iv024.1	09/21/1988	en 01a	96	0	0.359682572	2.584885611	71.55555556	36.44444444	0	0.444444444	0
160	28 ed iv024.9	09/21/1988	en 01a	90.32258065	0	0.429882421	4.009362875	90.32258065	70	0	0.64516129	0
161	28 ed iv027.8	09/21/1988	en 01a	94.31818182	0	0.385678369	2.707676885	74.43181818	16.47727273	0	0.568181818	0
162	28 ed iv028.5	09/28/1988	en 01a	93.33333333	0	0.337174967	2.03862178	90.37037037	48.14814815	0.740740741	1.481481481	0
163	31 Fk em010.1	10/20/1988	en 01a	66.76714393	0.527505652	0.322688428	3.424734328	43.55689525	40.24114544	0	4.973624717	0
164	31 Fk em015.0	10/20/1988	en 01a	79.48823772	0	0.259542752	3.299587625	25.4230293	20.47049113	0	1.40321915	0
165	50 l orv000.1	10/22/1988	en 01a	26.94300518	0	0.343158043	3.190147551	23.83419689	19.17098446	0	20.7253886	0
166	50 l orv004.8	10/22/1988	en 01a	68.60902256	0	0.420934281	4.620303837	68.04511278	53.94736842	0	3.947368421	0
167	50 allin119.7	10/22/1988	en 01a	53.88127854	0	0.44393541	3.781514664	37.67123288	37.67123288	0	20.54794521	0.456621005
168	50 allin131.8	10/22/1988	en 01a	45.87525151	0	0.373178314	4.670947812	40.64386318	31.18712274	0	2.012072435	0
169	50 allin141.9	10/22/1988	en 01a	83.81742739	0	0.441556961	4.208519779	75.31120332	53.1120332	0	5.394190871	0
170	50 right000.7	10/22/1988	en 01a	42.16738197	0	0.327102836	4.38767584	41.63090129	28.54077253	0	0.321888412	0
171	50 right002.6	10/22/1988	en 01a	25.0343879	0	0.217528165	4.856633339	24.34662999	20.22008253	0	0.687757909	0
172	28 Costi048.9	03/28/1989	en 01a	90.05235602	0	0.487859321	3.998268614	87.95811518	74.86910995	0	3.141361257	0
173	28 Costi052.2	03/28/1989	en 01a	89.62655602	0	0.423126631	3.828765268	85.89211618	62.65560166	0	0.829875519	0
174	28 Costi055.5	03/28/1989	en 01a	85.61643836	0.684931507	0.171709144	1.203947353	85.61643836	85.61643836	0	0.684931507	0
175	04 erme 002.9	04/10/1989	en 01a	56.75675676	0	0.302622776	1.486347831	31.53153153	31.53153153	0	0	0.900900901
176	04 erme 045.4	04/10/1989	en 01a	65.24216524	0	0.184599742	1.194379002	60.11396011	60.11396011	0	0	0
177	04 erme 073.7	04/10/1989	en 01a	90.0990099	0	0.232865565	2.166155859	68.06930693	68.06930693	0	0.495049505	0.742574257
178	50 l orv000.1	04/11/1989	en 01a	65.7635468	0	0.331902823	2.99682678	65.51724138	65.27093596	0	6.157635468	0
179	50 l orv004.8	04/11/1989	en 01a	70.38461538	0	0.474329172	4.316017638	70	64.23076923	0	3.846153846	0
180	50 allin119.7	04/11/1989	en 01a	72.50509165	0	0.31062634	3.550423363	62.93279022	62.93279022	0	4.684317719	0
183	50 allin131.8	04/11/1989	en 01a	55.5075594	0	0.433318674	4.887802885	49.4600432	42.76457883	0	0.863930886	0
184	50 allin141.9	04/11/1989	en 01a	70.12195122	0	0.475458486	4.315543116	55.79268293	49.69512195	0	3.353658537	0
185	50 right002.6	04/16/1989	en 01a	8.542713568	0	9.37 -02	2.545062889	8.542713568	8.542713568	0	0.125628141	0
186	28 Costi057.9	05/02/1989	en 01a	28.13411079	1.822157434	0.282555866	3.04539375	22.52186589	20.91836735	0	1.822157434	0
187	28 ua e021.7	05/22/1989	en 01a	60.17316017	0	0.360180944	3.748636093	59.30735931	57.14285714	0	0	0
188	29 io so004.5	05/22/1989	en 01a	67.34693878	0	0.332626146	2.287290851	31.97278912	24.48979592	0	0	0.340136054
189	29 io so008.8	05/22/1989	en 01a	82.60869565	0	0.399833686	3.759574273	55.43478261	51.08695652	0	1.086956522	0
190	28 Fri o004.8	05/23/1989	en 01a	78	0	0.39656655	3.208565819	74.5	70.5	0	0	0
191	30 antaF057.4	05/23/1989	en 01a	82.65582656	0	0.382245339	3.552820587	79.94579946	76.42276423	0	0	0
192	50CowCre064.0	05/23/1989	en 01a	86.2962963	0	0.380351091	2.543085778	86.2962963	77.03703704	0	0	0
193	50Holy h000.6	05/26/1989	en 01a	68.21705426	0	0.397855235	3.524421484	67.7002584	64.08268734	0	0	0
194	50Holy h002.1	05/26/1989	en 01a	67.49379653	0	0.369421111	3.333924237	66.50124069	63.5235732	0	0	0
195	31 Fk em010.1	05/29/1989	en 01a	75.32808399	0	0.361853771	4.402526294	64.04199475	60.19247594	0	0.699912511	0
196	31 Fk em015.0	05/29/1989	en 01a	89.54593453	0	0.368111952	4.085623525	70.64413939	69.6937698	0	1.795142555	0
197	28 edio013.3	05/30/1989	en 01a	89.0070922	0	0.440532322	4.431125803	86.87943262	58.15602837	0	0.354609929	0
198	28 edio016.9	05/30/1989	en 01a	80.66666667	0	0.324437828	2.794056877	80.66666667	16.66666667	0	2	0
199	28 edio017.5	05/30/1989	en 01a	52.49169435	0	0.271962753	3.281118014	52.49169435	32.72425249	0	0	0
200	29 uerc037.5	05/31/1989	en 01a	61.65803109	0	0.368842878	3.910371547	61.65803109	48.57512953	0	0.259067358	0
201	31 acas017.4	05/31/1989	en 01a	68.35164835	0	0.370696304	3.757987304	68.35164835	65.27472527	0	0.21978022	0
202	33 uerc464.3	06/20/1989	en 01a	87.86407767	0.485436893	0.343375194	2.815380749	82.52427184	81.55339806	0	0.485436893	0
203	28 rand595.7	07/10/1989	en 01a	90.15151515	0	0.22801715	2.552201988	28.78787879	28.59848485	0	0.189393939	0
204	28 rand647.9	07/10/1989	en 01a	82.7027027	0	0.296526695	3.2129856	37.83783784	35.40540541	0	1.351351351	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
205	28 rand572.8	07/12/1989	en 01a	87.27735369	0	0.228717817	2.176165771	20.3562341	19.84732824	0	0	0
206	28 Costi048.9	08/17/1989	en 01a	76.78339818	0	0.306597397	3.158992844	74.83787289	29.31258106	0	0.518806744	0
207	28 Costi052.2	08/17/1989	en 01a	70.92651757	0	0.342093089	3.105903367	70.60702875	34.98402556	0	0.159744409	0
208	28 Costi055.5	08/17/1989	en 01a	2.763819095	0	5.40 -02	1.169306961	2.763819095	1.507537688	0	0	0
209	28 Costi057.9	08/17/1989	en 01a	24.21823021	0.598802395	0.29135561	4.101039559	21.62341983	18.89554225	0	0.598802395	0
210	66 nimas009.8	08/22/1989	en 01a	91.29213483	0	0.270004991	2.723436366	29.7752809	18.53932584	0	0	0
211	66 nimas054.6	08/22/1989	en 01a	70.44198895	0.552486188	0.365414441	3.055174303	58.28729282	42.81767956	0	0.828729282	0
212	67 a lat033.8	08/22/1989	en 01a	78.37837838	0	0.404434002	2.548024853	43.24324324	23.42342342	0	0.900900901	0.900900901
213	05Cimmar044.5	09/13/1989	en 01a	61.67664671	0.598802395	0.300101862	2.54005778	56.28742515	56.28742515	0	29.34131737	0
214	05Cimmar050.8	09/13/1989	en 01a	57.84946237	0	0.363815987	3.581873334	40.43010753	37.20430108	0	0	0
215	05Cimmar077.2	09/13/1989	en 01a	77.18120805	1.006711409	0.244743144	2.190840804	32.38255034	6.879194631	0	5.033557047	0
216	28 uebT008.2	09/22/1989	en 01a	30	0	0.351572351	2.574438364	6.52173913	6.52173913	0	2.608695652	0
217	28 uebT013.2	09/22/1989	en 01a	79.82583454	0.290275762	0.253443118	2.7542977	35.70391872	12.04644412	0	0.290275762	0.145137881
218	28 uebT015.8	09/22/1989	en 01a	72.04301075	0.860215054	0.311986153	2.442186364	35.2688172	12.68817204	0	7.956989247	0
219	50 allin141.9	10/26/1989	en 01a	59.25925926	0	0.458234473	5.011146873	51.85185185	35.18518519	0	4.732510288	0
220	50 l orv000.1	10/27/1989	en 01a	32.03463203	0.865800866	0.461682658	4.961030453	29.43722944	27.70562771	0	12.98701299	0.865800866
221	50 l orv004.8	10/27/1989	en 01a	57.31343284	0	0.388107794	3.995526417	54.47761194	48.95522388	0	5.074626866	0
222	50 allin119.7	10/27/1989	en 01a	72.74741507	0	0.335370564	4.160415381	45.34711965	41.50664697	0	0.960118168	0.369276219
223	50 allin131.8	10/27/1989	en 01a	56.89045936	0	0.3399657	4.448359537	42.40282686	39.57597173	0	1.413427562	0
224	28 edio013.3	10/29/1989	en 01a	88.51963746	0	0.451056896	4.308771104	85.19637462	77.94561934	0	0.604229607	0
225	28 edio016.9	10/29/1989	en 01a	83.89261745	0	0.500887725	4.196687717	83.89261745	55.03355705	0	0.67114094	0
226	28 edio017.5	10/29/1989	en 01a	67.38255034	0	0.356276548	3.629004335	67.38255034	56.10738255	0	0.134228188	0
227	28 ua e021.7	10/31/1989	en 01a	62.57309942	0	0.435332498	4.289243337	59.21052632	52.63157895	0	0.14619883	0
228	31 Fk em010.1	10/31/1989	en 01a	73.23799796	5.413687436	0.341363862	3.049430554	45.96527068	42.39019408	0	7.660878447	0
229	31 Fk em015.0	10/31/1989	en 01a	62.64090177	1.93236715	0.368899913	3.887220185	52.81803543	48.95330113	0	12.39935588	0
230	50CowCre064.0	10/31/1989	en 01a	82.63888889	0	0.366651117	2.831921824	82.63888889	76.5625	0	0	0
231	28 Fri o004.8	11/02/1989	en 01a	89.09090909	0	0.456199089	4.031415928	76.62337662	69.09090909	0	0	0
232	50Holy h000.6	11/02/1989	en 01a	79.1011236	0	0.483016859	5.575530639	77.30337079	69.66292135	0	0.898876404	0
233	50Holy h002.1	11/02/1989	en 01a	81.48688047	0	0.440905712	5.206038444	77.25947522	66.47230321	0	1.603498542	0
234	29 io so004.5	11/04/1989	en 01a	25.66371681	0	0.290779809	2.115333115	19.46902655	19.46902655	0	0	0
235	29 io so008.8	11/04/1989	en 01a	70.83333333	0	0.458233561	1.887947883	62.5	58.33333333	0	0	0
236	29 uerc037.5	11/04/1989	en 01a	61.07526882	0	0.377955146	3.256248486	61.07526882	58.27956989	0	0	0
237	31 acas017.4	11/04/1989	en 01a	87.97385621	0	0.352431541	4.518156777	87.58169935	81.96078431	0	0	0
238	30 antaF057.4	11/05/1989	en 01a	78.9017341	0	0.434993539	5.199105911	62.42774566	48.12138728	0	0.289017341	0
239	50 l orv000.1	04/14/1990	en 01a	27.00729927	0	0.236897218	2.159973193	27.00729927	26.52068127	0	0.729927007	0
240	50 l orv004.8	04/14/1990	en 01a	50.97087379	0	0.470493857	3.819948648	47.81553398	41.99029126	0	12.13592233	0
241	50 allin119.7	04/14/1990	en 01a	69.49541284	0.688073394	0.369564596	3.784362271	61.23853211	61.23853211	0	5.963302752	0.229357798
242	50 allin131.8	04/14/1990	en 01a	51.85873606	0	0.364352348	4.453026373	48.32713755	42.37918216	0	7.80669145	0
243	50 allin141.9	04/14/1990	en 01a	57.08955224	0	0.506717119	4.292623124	54.47761194	42.91044776	0	8.955223881	0
244	28 Costi048.9	04/16/1990	en 03	79.15273133	0	0.357239726	3.52990187	72.79821628	59.86622074	0	0.334448161	0
245	28 Costi048.9	04/16/1990	en 01a	79.12946429	0	0.359197631	3.677584457	72.76785714	59.82142857	0	0.334821429	0
246	28 Costi052.2	04/16/1990	en 01a	48.76712329	0	0.394946738	3.559383959	46.57534247	37.26027397	0	0.821917808	0
247	28 Costi055.5	04/16/1990	en 01a	19.22005571	0	0.144373895	1.824687224	18.66295265	17.96657382	0	0	0
248	28 Costi057.9	04/16/1990	en 01a	28.14594192	5.063291139	0.282548968	3.332101753	24.94415488	23.08265078	0	5.063291139	0
249	30 antaF057.4	04/27/1990	en 01a	58.87681159	0	0.431797565	5.702023606	53.44202899	44.02173913	0	0.543478261	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
250	07 anuel020.9	05/07/1990	en 01a	67.41573034	0	0.458230201	3.859674918	64.04494382	61.23595506	0	5.617977528	0
252	07 apell000.1	05/07/1990	en 01a	61.32404181	0	0.34876805	3.003808361	32.40418118	32.40418118	0	2.090592334	0.696864111
253	07 apell044.4	05/07/1990	en 01a	76.90288714	0	0.361417528	3.533688195	48.03149606	48.03149606	0	1.312335958	2.362204724
254	07 apell069.8	05/07/1990	en 01a	25.7221458	0.275103164	0.349254054	4.553093755	25.44704264	25.0343879	0	1.100412655	0
255	50 allin075.8	06/11/1990	en 01a	56.1827957	3.225806452	0.357249155	2.872158281	19.89247312	19.89247312	0	17.74193548	1.075268817
256	50 allin101.8	06/11/1990	en 01a	0.82697201	0.636132316	0.177474964	1.766279396	0.508905852	0.508905852	0	32.31552163	0.318066158
257	50 allin102.1	06/11/1990	en 01a	68.51851852	1.851851852	0.372373513	2.857948207	45.55555556	45.55555556	0	12.22222222	1.481481481
258	50 allin114.6	06/11/1990	en 01a	63.51791531	0.325732899	0.397711656	3.317706501	61.23778502	52.76872964	0	0.325732899	0.977198697
259	50CowCre064.0	06/15/1990	en 01a	79.53488372	0	0.363356747	2.968442875	79.53488372	77.90697674	0	0.23255814	0
260	50Holy h000.6	06/16/1990	en 01a	60.26058632	0	0.440152552	4.016171027	58.30618893	52.76872964	0	3.25732899	0
261	50Holy h002.1	06/16/1990	en 01a	49.51768489	0	0.470854674	4.52978015	49.51768489	42.1221865	0	3.8585209	0
262	28 Fri o004.8	06/17/1990	en 01a	54.91452991	0	0.385543719	4.879263998	48.07692308	42.52136752	0	0.641025641	0
263	28 edio013.3	06/23/1990	en 01a	79.56989247	0	0.516268895	4.401284914	75.80645161	40.86021505	0	2.150537634	0
264	28 edio016.9	06/23/1990	en 01a	84.43113772	0	0.422199485	3.32161402	81.43712575	26.94610778	0	0	0
265	28 edio017.5	06/23/1990	en 01a	58.28402367	0	0.359845601	3.091165744	58.28402367	38.75739645	0	3.25443787	0
266	02 ryCim003.2	06/26/1990	en 01a	34.48275862	6.034482759	0.348994235	2.314040453	25	25	0	6.896551724	0
267	02 ryCim003.2	06/26/1990	en 03	35.65217391	0	0.487258678	3.161267558	29.56521739	29.56521739	0	0.869565217	0.869565217
268	02 ryCim049.8	06/26/1990	en 01a	64.40677966	0.211864407	0.376849127	2.923511684	34.11016949	34.11016949	0	10.80508475	0.211864407
269	02 ryCim049.8	06/26/1990	en 03	49.47368421	1.052631579	0.530161272	3.074303573	41.05263158	41.05263158	0	6.315789474	2.105263158
270	02 ryCim100.0	06/26/1990	en 01a	61.73913043	2.608695652	0.479945181	4.229434455	52.60869565	52.17391304	0	16.52173913	0
271	02 ryCim100.0	06/26/1990	en 03	66.41221374	1.908396947	0.411101882	3.771318385	64.50381679	64.50381679	0	6.488549618	0
272	02 ryCim103.6	06/26/1990	en 01a	0	0	0.314643038	1.122498913	0	0	0	16.27906977	0
273	02 ryCim103.6	06/26/1990	en 03	35.38461538	0	0.476559453	2.156005042	30.76923077	30.76923077	0	0	0
274	28 ua e021.7	07/02/1990	en 01a	44.95967742	0	0.329985358	3.866866414	44.95967742	40.72580645	0	4.032258065	0
275	29 uerc037.5	07/06/1990	en 01a	79.10447761	0	0.367943188	4.296534623	79.10447761	68.28358209	0	1.305970149	0
276	31 Fk em010.1	07/07/1990	en 01a	58.70698644	3.649635036	0.403075128	5.534605718	51.1991658	48.59228363	0	7.090719499	0.104275287
277	31 Fk em015.0	07/07/1990	en 01a	49.58968347	2.813599062	0.397281781	4.74161211	42.43845252	41.38335287	0	6.682297773	0.117233294
278	31 acas012.6	07/07/1990	en 01a	81.3559322	0	0.361397215	2.897906895	81.3559322	80.2259887	0	0	0
279	80Negrit000.1	07/12/1990	en 01a	65.38461538	3.846153846	0.437726596	3.889680314	54.54545455	53.14685315	0	3.846153846	0.34965035
280	80Tularo001.3	07/12/1990	en 01a	52.77777778	2.314814815	0.453290153	4.464885012	39.35185185	39.35185185	0	2.777777778	1.388888889
281	80Tularo050.8	07/12/1990	en 01a	72.68292683	0	0.43022861	3.381545417	46.34146341	46.34146341	0	0	1.463414634
282	45 imbre127.4	08/22/1990	en 01a	43.11594203	1.811594203	0.290162841	1.957155773	43.11594203	43.11594203	0	2.898550725	0
283	59 enas110.5	09/12/1990	en 01a	6.040268456	0	0.178192992	1.199053634	3.355704698	3.355704698	0	0	0
284	59 enas170.4	09/12/1990	en 01a	94.44444444	0.617283951	0.378835998	2.751790645	72.83950617	69.13580247	0	3.086419753	0
285	28 ua e021.7	11/01/1990	en 01a	52.37341772	0	0.334187148	4.186767418	51.42405063	48.57594937	0	0.316455696	0
286	29 io so004.5	11/01/1990	en 01a	33.78378378	0	0.346913781	2.555723429	25.67567568	20.27027027	0	1.351351351	0
287	29 io so008.8	11/01/1990	en 01a	15.15151515	0	0.306672188	2.048004436	11.36363636	5.303030303	0	19.6969697	0
288	28 edio013.3	11/11/1990	en 01a	94.35897436	0	0.383258005	3.413616823	89.23076923	72.82051282	0	0.512820513	0
289	28 edio016.9	11/11/1990	en 01a	80.99173554	0	0.507494848	3.753291523	80.99173554	52.0661157	0	1.652892562	0
290	28 edio017.5	11/11/1990	en 01a	63.41127923	0	0.361742059	4.09778438	63.41127923	52.2696011	0	0.550206327	0
291	50Holy h000.6	11/11/1990	en 01a	65.2027027	0	0.450808043	5.482879866	60.81081081	56.08108108	0	1.013513514	0
292	50Holy h002.1	11/11/1990	en 01a	63.97058824	0	0.459943907	5.5564823	56.98529412	49.63235294	0	8.455882353	0
293	50CowCre064.0	11/13/1990	en 01a	61.19733925	0	0.325262287	2.945282859	61.19733925	59.86696231	0	0	0
294	29 uerc037.5	11/15/1990	en 01a	64.76725522	0	0.401883058	4.349232909	63.964687	58.42696629	0	1.123595506	0
295	31 Fk em010.1	11/15/1990	en 01a	74.24042272	2.50990753	0.325708515	3.277564466	33.68560106	30.51519155	0	3.698811096	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
296	31 Fk em015.0	11/15/1990	en 01a	84.15121774	0.617957107	0.232865102	4.04054701	21.59214831	20.21083242	0	1.781170483	0
297	31 acas012.6	11/15/1990	en 01a	88.94472362	0	0.314049348	3.59829447	88.94472362	78.72696817	0	0	0
298	28 Fri o004.8	11/17/1990	en 01a	83.45864662	0	0.448524176	4.119282745	63.90977444	56.76691729	0	0	0
299	30 antaF057.4	11/20/1990	en 01a	84.75073314	0	0.44584369	4.629722925	73.31378299	66.56891496	0	0	0
300	28Cabres005.4	04/01/1991	en 01a	85.83569405	0	0.461674618	4.261507905	79.32011331	67.42209632	0	0	0
301	28Columb000.1	04/01/1991	en 01a	85.20408163	0	0.489165005	4.168154999	82.65306122	72.44897959	0	1.020408163	0
302	29Cannon002.4	04/22/1991	en 01a	79.20792079	0	0.36019574	2.600148784	67.32673267	65.34653465	0	0.99009901	0
303	29Coyote005.6	04/22/1991	en 01a	63.79310345	0	0.526944713	2.95534255	55.17241379	55.17241379	0	0	0
304	29 ncin009.7	04/22/1991	en 01a	45.91439689	0	0.386102328	4.14483414	41.63424125	40.85603113	0	0.389105058	0
305	29 alli045.1	04/22/1991	en 01a	93.33333333	0	0.467701954	4.429075893	86.66666667	69.44444444	0	0	0
306	29 oleo009.5	04/22/1991	en 01a	88.23529412	0	0.626291181	3.815021672	86.2745098	56.8627451	0	0	0
307	29 uerc037.5	04/24/1991	en 01a	57.09023941	0	0.393498894	4.446484661	56.53775322	54.88029466	0	16.7587477	0
308	80 anFra028.6	06/16/1991	en 03	28.27868852	0.204918033	0.296760691	2.746225174	14.95901639	14.95901639	0	6.967213115	0.204918033
309	50CaveCr001.9	06/29/1991	en 01a	82.87671233	0	0.500478765	3.812499951	80.82191781	70.54794521	0	6.164383562	0
310	31 Cebol005.6	07/11/1991	en 01a	52.26824458	0	0.337069899	3.211040325	43.19526627	42.80078895	0	1.775147929	3.550295858
311	50 io or000.3	07/14/1991	en 03	79.71014493	0	0.582375858	3.778837396	71.01449275	53.62318841	0	4.347826087	0
312	29 Chama089.5	07/28/1991	en 01a	94.61786868	0	0.185874093	2.391309687	91.01184069	90.04305705	0	0.538213132	0
313	29 Chama089.5	07/28/1991	en 03	95.88744589	0	0.235099472	2.281778491	92.42424242	91.77489177	0	1.298701299	0.216450216
314	29 Chama118.1	07/28/1991	en 01a	49.68992248	0	0.248488588	2.652743025	41.9379845	41.9379845	0	2.868217054	0
315	29 Chama118.1	07/28/1991	en 03	73.42281879	0	0.236304913	2.32668541	49.93288591	49.79865772	0	0.805369128	0
316	50 ecos 512.6	07/31/1991	en 03	90.32800673	0.588730025	0.21828446	3.389415019	30.6980656	30.61396131	0	1.26156434	1.26156434
317	29 Chama090.1	08/01/1991	en 01a	74.39613527	0	0.450136653	3.750432148	55.07246377	47.82608696	0	5.797101449	0
318	29 Chama090.1	08/01/1991	en 03	71.55963303	0	0.511354344	2.984216978	55.96330275	48.62385321	0	8.256880734	0
319	29 Chama122.6	08/01/1991	en 01a	35.94948128	0	0.199135394	1.947063192	29.45421741	29.45421741	0	2.751465945	0
320	29 Chama122.6	08/01/1991	en 03	20.5346294	0	0.243740237	2.085519342	17.98298906	17.98298906	0	17.49696233	0
321	60 ecos 011.3	08/05/1991	en 01a	0	0	0.273411542	0.656917478	0	0	0	0	38.0952381
322	60 ecos 011.3	08/05/1991	en 01a	0	0	0.293138656	0.571999335	0	0	0	0	27.27272727
323	60 ecos 050.2	08/07/1991	en 03	57.77777778	4.444444444	0.460380155	2.364275799	11.11111111	11.11111111	0	4.444444444	4.444444444
324	60 ecos 050.2	08/07/1991	en 01a	33.88429752	5.785123967	0.43913644	2.710710544	13.2231405	9.917355372	0	7.438016529	3.305785124
325	60 ecos 093.2	08/07/1991	en 03	66.12903226	12.90322581	0.380801628	2.180689835	11.29032258	8.064516129	0	14.51612903	8.064516129
326	60 ecos 093.2	08/07/1991	en 01a	72.03065134	7.662835249	0.224808435	1.797100068	4.980842912	1.149425287	0	11.11111111	1.149425287
327	78 ila i074.8	08/16/1991	en 03	79.28994083	0	0.4012115	3.606360035	64.79289941	64.79289941	0	8.284023669	0.887573964
328	09Canadi062.4	08/23/1991	en 03	0.917431193	0	0.127586742	0.98722494	0.917431193	0.917431193	0	1.834862385	0.917431193
329	29 Chama143.8	08/28/1991	en 01a	93.50775194	9.69 -02	0.176213248	1.873400239	14.8255814	14.8255814	0	0.290697674	0
330	29 Chama050.4	08/29/1991	en 01a	98.42190764	4.64 -02	0.169908971	2.270429376	88.88373172	71.89603156	0	0.324901369	0
331	29 Chama147.1	08/29/1991	en 01a	70.16949153	0	0.34518008	3.918420039	41.52542373	37.62711864	0	0.338983051	0
332	29 Chama166.4	08/29/1991	en 01a	50.40556199	0	0.390479362	4.437597599	23.98609502	9.269988413	0	4.05561993	0
333	28 rand541.2	09/09/1991	en 01a	72.76264591	0	0.302337622	2.7031527	25.68093385	20.23346304	0	1.945525292	0
334	29 Chami008.4	09/13/1991	en 01a	93.52941176	0.130718954	0.25038851	3.545604582	12.2875817	11.69934641	0	0.326797386	0
335	29 olvad009.8	10/10/1991	en 01a	32.99492386	0	0.305087205	2.342566595	19.03553299	18.27411168	0	5.076142132	0
336	29 Chama089.5	11/09/1991	en 01a	14.28571429	0.714285714	0.258238262	1.821256827	14.28571429	14.28571429	0	1.428571429	0
337	29 Chama089.5	11/09/1991	en 03	65.34090909	0	0.307720149	1.934054918	58.52272727	55.11363636	0	0	0
338	29 Chama122.6	11/10/1991	en 01a	53.68620038	9.45 -02	0.185190289	2.153892577	51.1342155	51.1342155	0	0.945179584	0
339	29 Chama122.6	11/10/1991	en 03	60.36036036	0	0.280409782	2.461050162	51.05105105	50.9009009	0	5.255255255	0
340	29 Chama118.1	11/22/1991	en 01a	12.20472441	0.524934383	0.259601392	2.411110437	11.28608924	10.23622047	0	16.79790026	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
341	29 Chama118.1	11/22/1991	en 03	18.99441341	0	0.292564403	1.870578743	16.75977654	15.6424581	0	18.7150838	0
342	29 Chama090.1	11/24/1991	en 01a	12.25382932	0	0.193533517	1.959284951	11.3785558	10.94091904	0	1.094091904	0
343	29 Chama090.1	11/24/1991	en 03	56.39097744	0	0.297135474	2.337634028	48.62155388	47.36842105	0	1.253132832	0
344	50 ecos 512.6	04/01/1992	en 03	67.49379653	0	0.236499967	2.540314894	55.58312655	55.58312655	0	0.248138958	0.124069479
345	28NFk Ho000.5	04/02/1992	en 01a	80.37383178	0	0.479055633	5.024741547	80.37383178	68.84735202	0	0.31152648	0
346	28 Hondo000.1	04/02/1992	en 01a	66.07275427	0	0.342155257	3.747067308	47.21603563	46.25092799	0	0.816629547	0
347	28 Hondo003.9	04/02/1992	en 01a	80.36809816	0	0.39492058	4.683188371	71.98364008	65.23517382	0	1.431492843	0
348	28 Hondo012.1	04/02/1992	en 01a	74.26210153	0	0.401500647	4.746576784	66.23376623	59.85832349	0	0.472255018	0
349	28 Hondo014.8	04/02/1992	en 01a	89.46135831	0	0.457422718	5.283331869	89.22716628	77.98594848	0	0.93676815	0
350	28 Hondo022.4	04/02/1992	en 01a	65.05295008	0	0.373307337	4.157841622	64.44780635	44.62934947	0	0.15128593	0
351	28 Hondo026.7	04/02/1992	en 01a	31.69291339	0	0.222452904	2.407518604	31.69291339	11.81102362	0	0	0
352	28 Hondo026.9	04/02/1992	en 01a	89.33333333	0	0.409106628	3.543152033	89.33333333	48	0	0	0
353	28 ed iv005.3	04/10/1992	en 01a	63.34661355	0	0.378349987	2.895690213	60.55776892	51.79282869	0	0.398406375	0
354	28 ed iv009.8	04/10/1992	en 01a	90.42553191	0	0.362938667	2.421150405	84.04255319	81.91489362	0	0	0
355	28 ed iv014.5	04/10/1992	en 01a	95.34883721	0	0.180332243	2.020498044	95.34883721	94.18604651	0	0	0
356	28 ed iv024.1	04/10/1992	en 01a	92.88256228	0	0.28930605	1.77356704	92.52669039	85.76512456	0	0	0
357	28 ed iv024.9	04/10/1992	en 01a	89.375	0	0.383691361	3.887403871	88.75	69.58333333	0	0.208333333	0
358	28 ed iv027.8	04/10/1992	en 01a	93.9516129	0	0.335757913	2.720630064	91.93548387	89.11290323	0	0.403225806	0
359	28 ed iv028.5	04/10/1992	en 01a	91.21495327	0	0.360027096	3.342742492	84.29906542	73.8317757	0	0	0
360	28 ed iv028.5	04/10/1992	en 01a	91.97530864	0	0.372820304	2.940798178	89.19753086	83.33333333	0	0	0
361	28 ed iv031.1	04/10/1992	en 01a	92.22222222	0	0.372378289	3.273725566	87.77777778	73.11111111	0	0	0
362	28 igTes013.2	05/13/1992	en 01a	59.06735751	0	0.368323447	3.759972641	59.06735751	49.48186528	0	0.259067358	0
363	28 edio013.3	05/13/1992	en 01a	75.10729614	0	0.343718851	4.231642979	74.67811159	72.31759657	0	0.643776824	0
364	28 edio016.9	05/13/1992	en 01a	72.45179063	0	0.350773522	3.3930494	72.45179063	36.36363636	0	0.550964187	0
365	28 edio017.5	05/13/1992	en 01a	42.28310502	0	0.243027368	3.143526426	42.28310502	37.07762557	0	0.913242009	0
366	77 lackC000.1	05/21/1992	en 02	93.07359307	0	0.381334713	4.04232111	90.90909091	67.53246753	0	0	0
367	77 Fk il000.1	05/21/1992	en 02	64.18604651	0	0.382191887	3.351557097	60	60	0	0	0
368	77 Fk il035.4	05/21/1992	en 02	84.90566038	0	0.440270044	3.002076304	82.0754717	65.09433962	0	0	0.943396226
369	06Canadi232.6	06/17/1992	en 03	63.93348624	0	0.222597798	2.277618488	58.42889908	58.42889908	0	0.229357798	5.73 -02
370	80 anFra105.7	07/14/1992	en 01a	80.78817734	0	0.387373447	2.634943959	66.00985222	49.75369458	0	8.374384236	0
371	80 anFra115.7	07/14/1992	en 01a	86.90909091	0	0.336613519	2.218729211	81.63636364	72.54545455	0	0	0
372	80Center000.1	07/15/1992	en 01a	45.06472492	0.647249191	0.242922185	2.949589146	43.60841424	16.66666667	0	3.074433657	8.09 -02
373	80 anFra154.1	07/15/1992	en 01a	81.59509202	0	0.385748065	3.283279234	66.56441718	66.56441718	0	1.226993865	0
374	77 Fk il055.0	07/30/1992	en 03	34.68446602	2.621359223	0.190448283	2.643084445	1.796116505	1.796116505	0	14.15048544	4.85 -02
375	77 illow000.6	07/30/1992	en 03	41.64133739	0	0.26866346	3.045831038	39.0070922	36.87943262	0	0.40526849	0.303951368
376	77 ilita000.1	08/03/1992	en 01a	46.22641509	0	0.310898561	2.24023275	45.75471698	45.28301887	0	0	0
377	77IronCr000.1	08/03/1992	en 01a	51.86915888	0	0.40510079	2.98175019	49.06542056	49.06542056	0	0.934579439	0.46728972
378	77 Fk il054.8	08/03/1992	en 01a	37.54789272	0	0.392116229	2.875360108	34.86590038	33.33333333	0	0	0
380	77 Fk il000.1	08/04/1992	en 02	75.4601227	0	0.316497404	2.355828128	73.00613497	25.76687117	0	1.226993865	0
381	77Taylor004.2	08/04/1992	en 01a	39.6039604	4.290429043	0.284843953	3.433808663	14.35643564	13.53135314	0	5.610561056	0
383	77Turkey001.8	08/05/1992	en 03	54.26829268	0.609756098	0.423170728	3.529504205	49.3902439	39.02439024	0	0.609756098	1.219512195
384	77 Fk il000.1	10/07/1992	en 02	60.58558559	0.675675676	0.358297579	2.952840886	26.12612613	16.44144144	0	5.18018018	0.45045045
385	77 Fk il035.4	10/07/1992	en 02	77.77777778	0.358422939	0.293171996	2.486143399	73.83512545	68.45878136	0	3.225806452	5.017921147
386	77 lackC000.1	03/26/1993	en 02	34.92063492	0	0.355363799	2.172268245	33.33333333	33.33333333	0	0	0
387	77 Fk il000.1	03/26/1993	en 02	78.31325301	0	0.421663614	2.036733342	43.37349398	43.37349398	0	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
388	77 Fk il035.4	04/07/1993	en 02	87.96992481	0	0.132743338	0.613453134	85.71428571	4.511278195	0	0	0
389	79Clanto000.1	05/04/1993	en 01a	4.545454545	0	0.302964645	1.063721069	4.545454545	4.545454545	0	0	30.90909091
390	36 luewa012.9	06/01/1993	en 03	51.875	4.375	0.369592059	3.120492083	34.375	34.375	0	17.5	0
391	36 luewa013.5	06/01/1993	en 03	52.43902439	0	0.324834786	2.179705241	47.15447154	47.15447154	0	1.219512195	2.032520325
392	28 Cany012.4	06/21/1993	en 01a	6.25	0	0.274081773	2.190893328	6.25	6.25	0	0	0
393	28 os la010.5	06/21/1993	en 01a	27.51235585	0	0.204969073	1.872504656	27.51235585	27.18286656	0	0.164744646	0
394	28 os la021.0	06/21/1993	en 01a	92.75	0	0.229141823	2.991946401	92.75	92.75	0	0.25	0
396	28 andia011.2	06/21/1993	en 01a	89.57219251	0	8.00 -02	1.208933478	89.57219251	89.57219251	0	5.614973262	0
397	28Comanc000.1	06/24/1993	en 03	37.72151899	0	0.250183483	2.119393024	32.23628692	31.64556962	0	0.421940928	0
398	28Comanc007.7	06/24/1993	en 03	62.5433526	0	0.341041532	3.105255057	47.28323699	41.73410405	0	0.231213873	0
399	64 an ua111.0	07/14/1993	en 03	94.98861048	0	0.177021377	1.327894554	65.9453303	65.9453303	0	0	0
400	57 uido001.3	07/26/1993	en 01a	64.88294314	0	0.328287746	2.346099489	45.48494983	45.31772575	0	0	0
401	57 uido019.8	07/26/1993	en 01a	85.46712803	0	0.342243877	2.647170929	80.27681661	79.93079585	0	1.038062284	0
402	57 uido030.1	07/26/1993	en 01a	70.53872054	0	0.305973341	3.131419743	46.63299663	23.23232323	0	0.336700337	0
403	57 uido031.4	07/26/1993	en 01a	73.2832618	0	0.282604317	2.340093781	46.99570815	34.54935622	0	1.931330472	0
404	57 uido042.2	07/26/1993	en 01a	78.20512821	0	0.294922754	2.175213318	57.8525641	30.44871795	0	0.801282051	0
405	57 uido048.1	07/26/1993	en 01a	69.40509915	0	0.28532799	2.727365059	62.03966006	53.25779037	0	0.566572238	0.566572238
406	57 uido052.5	07/26/1993	en 01a	79.48717949	0	0.369822379	3.565398086	76.55677656	72.16117216	0	0.366300366	0
407	50 l orv000.1	08/02/1993	en 01a	43.89027431	0	0.376307652	3.670360623	42.89276808	42.1446384	0	0	0
408	50 allin114.6	08/02/1993	en 01a	89.45386064	0.188323917	0.318127513	4.621689221	66.85499058	66.66666667	0	0.564971751	2.071563089
409	50 allin119.7	08/02/1993	en 01a	57.51445087	0	0.375049697	4.276107381	56.64739884	56.06936416	0	0.289017341	0.289017341
410	50 allin131.8	08/02/1993	en 01a	80.72916667	0	0.517502379	4.945320568	67.1875	48.4375	0	0.520833333	0
411	50 allin141.9	08/03/1993	en 01a	82.87671233	0	0.417048257	3.699297298	82.19178082	76.36986301	0	0.342465753	0
412	05Cieneg018.5	09/07/1993	en 01a	22.54428341	1.771336554	0.182295881	1.710376882	22.54428341	22.54428341	0	12.72141707	0.322061192
413	05Cieneg019.3	09/07/1993	en 01a	25.95419847	0.381679389	0.312528618	3.034420703	19.84732824	19.08396947	0	17.7480916	0
414	05Cieneg021.9	09/07/1993	en 01a	47.73869347	0	0.379174816	4.009052437	43.71859296	33.91959799	0	15.07537688	0
415	05Cieneg006.3	09/08/1993	en 01a	68.70109546	0	0.279702152	2.476816819	22.0657277	5.007824726	0	0	0.938967136
416	05Cieneg016.5	09/08/1993	en 01a	51.08481262	0.986193294	0.339416138	3.211040325	19.72386588	15.7790927	0	3.15581854	0.788954635
417	05 onte 000.5	09/08/1993	en 01a	7.177033493	0.28708134	0.23991057	2.301571401	6.315789474	6.315789474	0	35.6937799	0
418	05 oreno003.7	09/08/1993	en 01a	42.30055659	0	0.304596253	2.702824922	27.27272727	26.90166976	0	14.47124304	0.371057514
419	05 i mil001.4	09/08/1993	en 01a	17.2173913	0.347826087	0.236292648	3.776928294	16.69565217	15.30434783	0	1.217391304	0
420	28 ed iv000.9	09/20/1993	en 03	55.42168675	0	0.300991329	2.093195479	33.53413655	26.10441767	0	0	0
421	28 rand663.4	09/20/1993	en 03	68.37524178	0	0.233125527	2.16101272	29.98065764	29.98065764	0.580270793	0.87040619	0
422	29 Chama004.5	10/01/1993	en 01a	73.15175097	0	0.329795305	2.16252216	40.85603113	39.68871595	0	0.778210117	0
423	30 nchoC000.1	10/13/1993	en 03	33.94625177	3.536067893	0.262276959	2.591056324	33.38048091	33.38048091	0	3.536067893	2.97029703
424	30 Fri o000.1	10/14/1993	en 01a	6.765676568	0	9.28 -02	3.098579693	6.188118812	5.198019802	0	0.330033003	8.25 -02
425	30 a ari015.8	07/22/1994	en 01a	26.55709343	0	0.249322132	2.552206428	25.51903114	23.26989619	0	3.200692042	0
426	77 iamon038.2	08/02/1994	en 01a	82.80542986	0	0.415040062	4.268375851	79.86425339	77.8280543	0	0	0.678733032
427	30 ulldo000.1	08/09/1994	en 01a	29.39759036	0	0.36199809	2.985927067	16.14457831	12.04819277	0	0.481927711	0
428	31 uada008.2	08/10/1994	en 01a	60.14669927	0	0.445079202	3.990877416	49.38875306	39.1198044	0	0	0.97799511
429	31 an n005.3	08/10/1994	en 01a	53.64963504	0.182481752	0.420369971	3.805733005	33.02919708	29.74452555	0	2.554744526	0
431	31 emez 049.2	08/16/1994	en 03	72.79411765	0	0.379293368	2.646227	47.79411765	47.79411765	0	2.205882353	1.470588235
433	31 uada000.1	08/16/1994	en 01a	55.75221239	0	0.452102988	4.243123604	26.10619469	25.66371681	0	15.04424779	2.654867257
434	31 emez 064.6	08/17/1994	en 01a	52.5625	0	0.263287991	3.388562884	9.8125	8.875	0	1.75	0.125
435	64Nava o009.7	09/20/1994	en 01a	87.66233766	1.298701299	0.435365086	3.375056575	36.36363636	35.06493506	0	1.298701299	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
436	64Nava o015.5	09/20/1994	en 01a	88.33333333	0.666666667	0.350745204	2.629833811	38	35	0	0.666666667	0.333333333
437	64Nava o015.5	09/20/1994	en 01a	89.47368421	0	0.426829675	1.976338011	40	33.68421053	0	2.105263158	0
438	64Nava o023.3	09/20/1994	en 01a	73.45132743	0	0.388379857	4.291108743	54.86725664	48.96755162	0	0.294985251	0
439	64Nava o023.3	09/20/1994	en 01a	78.43137255	0	0.494295711	3.891914769	42.15686275	39.21568627	0	0	0
440	64Nava o029.4	09/20/1994	en 01a	85.40540541	2.432432432	0.259625535	2.705672084	62.43243243	61.35135135	0	2.432432432	0
441	64Nava o029.4	09/20/1994	en 01a	92.23300971	0	0.379699973	2.589148153	43.68932039	33.00970874	0	0	0
442	30 antaF003.7	10/06/1994	en 01a	65.79634465	0	0.249533966	1.355180414	34.33420366	9.921671018	0	1.436031332	0.130548303
443	30 antaF021.2	10/06/1994	en 01a	28.38709677	0	0.255981016	1.399750025	26.4516129	23.70967742	0	5.806451613	0
444	30 antaF028.3	10/07/1994	en 01a	5.660377358	0	0.127756357	1.548034208	5.578342904	5.578342904	0	0	8.20 -02
445	30 antaF032.8	10/07/1994	en 01a	0	0	0.048199516	1.235751873	0	0	0	0.305903946	3.06 -02
446	77 Fk il035.4	06/02/1995	en 02	69.8630137	0.342465753	0.255685165	2.466198198	68.83561644	11.64383562	0	3.424657534	0
447	77 Fk il000.1	06/05/1995	en 02	75.2173913	0	0.334498005	2.39054991	72.60869565	70	0	8.260869565	0
448	80 anFra028.6	09/11/1995	en 01a	78.85117493	0	0.357980385	3.362455002	45.69190601	44.38642298	0	1.305483029	0
450	80 anFra105.7	09/11/1995	en 01a	82.09606987	0.436681223	0.467622906	5.153005616	56.76855895	48.47161572	0	1.310043668	0.873362445
451	80 anFra115.7	09/11/1995	en 01a	80.35363458	0	0.389486546	4.171715501	60.5108055	60.31434185	0	1.571709234	0.589390963
452	80 anFra154.1	09/11/1995	en 01a	60.53921569	0.367647059	0.331535092	4.17635285	31.8627451	31.25	0	1.102941176	0.12254902
453	45 imbre085.7	09/12/1995	en 01a	81.9706499	0	0.31632887	3.080656538	45.49266247	17.40041929	0	1.257861635	0
454	45 imbre094.6	09/12/1995	en 01a	83.04597701	0.862068966	0.324233747	3.246640913	55.74712644	21.55172414	0	2.873563218	0
455	45 imbre104.8	09/12/1995	en 01a	90.83769634	0	0.240589575	2.69114686	44.5026178	7.591623037	0	0.261780105	0
456	45 imbre127.4	09/12/1995	en 01a	56.61375661	0	0.260654127	1.907760899	55.02645503	55.02645503	0	0.529100529	0
457	64Nava o009.7	09/20/1995	en 01a	85.05747126	0	0.454077431	3.134860733	65.51724138	56.32183908	0	1.149425287	0
458	30 antaF000.1	10/01/1995	en 01a	48.50065189	24.64146023	0.348785559	2.860374521	33.76792699	19.81747066	0	30.63885267	1.434159061
459	30 antaF003.7	10/01/1995	en 01a	15.92039801	16.66666667	0.116082343	0.270901895	15.92039801	0	0	84.07960199	0
460	30 antaF012.7	10/01/1995	en 01a	38.32599119	3.083700441	0.318959269	1.474667965	18.06167401	6.167400881	0	17.62114537	0
461	30 antaF015.3	10/01/1995	en 01a	56.02836879	1.418439716	0.374267129	1.61656661	29.78723404	11.34751773	0	12.05673759	0
462	77 Fk il000.1	10/03/1995	en 02	62.63736264	0	0.436410308	2.660246896	48.35164835	40.65934066	0	1.098901099	1.098901099
463	77 Fk il035.4	10/03/1995	en 02	76.47058824	0	0.363197495	2.162174872	26.47058824	16.66666667	0	1.960784314	0
464	77 Fk il000.1	05/07/1996	en 02	79.7979798	0.336700337	0.384563126	3.863897961	73.73737374	73.73737374	0	1.01010101	1.01010101
465	77 Fk il035.4	05/07/1996	en 02	77.2260274	0	0.307119	2.04084805	47.94520548	38.35616438	0	0	0
466	50 ecos 739.5	10/17/1996	en 01a	49.23928077	0.691562932	0.34679227	5.084822813	33.05670816	26.14107884	0	13.48547718	6.92 -02
467	28 os la021.5	02/25/1997	en 01a	32.99256506	0	0.233808851	3.294654217	28.81040892	23.51301115	0	0	0
468	50 alton000.1	03/06/1997	en 01a	91.96141479	0	0.387993735	3.136001642	88.10289389	85.85209003	0	3.215434084	0
469	28 Nambe001.1	05/09/1997	en 03	94.73684211	0	0.257944008	2.111398014	50	49.12280702	0	0.877192982	0
470	28 Nambe004.0	05/09/1997	en 03	92.22222222	0	0.314426437	2.000084595	85.55555556	82.22222222	0	0	0
471	28 Nambe005.1	05/09/1997	en 03	84	0	0.44023802	3.257208614	79	73	0	5	0
472	50 lorie001.3	05/20/1997	en 01a	62.17008798	2.492668622	0.305872987	3.678144201	61.58357771	61.58357771	0	7.917888563	1.026392962
473	50 lorie001.4	05/20/1997	en 01a	25.90673575	1.03626943	0.237892734	2.910306634	24.45595855	24.45595855	0	4.559585492	0.725388601
474	50 lorie001.6	05/20/1997	en 01a	51.99115044	0.110619469	0.32111174	3.085136837	38.60619469	38.60619469	0	2.32300885	1.438053097
475	77 lackC000.1	05/20/1997	en 02	30.76923077	0	0.25910312	2.630957566	30.23504274	17.62820513	0	6.837606838	0
476	77 Fk il000.1	05/20/1997	en 02	40.97995546	0.445434298	0.328852287	3.602409947	38.97550111	36.08017817	0	7.126948775	1.336302895
477	77 Fk il035.4	05/20/1997	en 02	40.75907591	0.165016502	0.285508198	2.809479815	33.66336634	26.40264026	0	8.250825083	0
478	80Tularo029.6	08/13/1997	en 03	80.55555556	5.555555556	0.378793532	2.232442506	19.44444444	2.777777778	0	11.11111111	0
479	57 onit025.7	09/02/1997	en 01a	63.31877729	0	0.352083571	2.392466893	55.45851528	49.78165939	0	0	0
480	57 onit053.1	09/02/1997	en 01a	50.38167939	17.17557252	0.361161161	1.795865898	38.54961832	38.54961832	0	23.66412214	1.908396947
481	57 onit061.1	09/02/1997	en 01a	84.49197861	0	0.328156632	2.676296943	68.44919786	68.44919786	0	0.534759358	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
482	57 onit000.8	09/03/1997	en 01a	53.68421053	0	0.371466631	2.858763328	50	35.78947368	0	0.526315789	1.052631579
483	57 Hondo0117.1	09/03/1997	en 01a	82.47011952	0	0.374802113	2.533728937	54.18326693	43.8247012	0	0.398406375	0
484	57 Hondo130.7	09/03/1997	en 01a	79.92831541	0	0.343670279	2.308561728	42.29390681	34.40860215	0	0.358422939	0
485	57 uido001.3	09/03/1997	en 01a	82.58706468	0	0.364780205	2.639863301	37.81094527	35.82089552	0	0	0
486	77 iamon038.1	09/13/1997	en 01a	74.91467577	0	0.269599531	3.765698379	73.89078498	72.8668942	0	0	0.170648464
487	77 iamon039.3	09/13/1997	en 01a	83.6454432	0	0.196046008	3.290526108	82.02247191	77.52808989	0	0	0
488	77 iamon040.1	09/13/1997	en 01a	80.36363636	0	0.347751898	3.026649957	69.81818182	69.81818182	0	0	0
489	50 alton000.1	09/15/1997	en 01a	68.05111821	0	0.426902808	4.002643004	51.11821086	44.08945687	0	0.319488818	0
490	77 lackC000.1	10/07/1997	en 02	62.5	0	0.519454883	1.803368801	50	0	0	6.25	0
491	77 Fk il000.1	10/07/1997	en 02	66.66666667	0	0.666971227	3.337543831	29.62962963	25.92592593	0	14.81481481	0
492	77 Fk il035.4	10/07/1997	en 02	74.41860465	0	0.485759425	2.658725857	44.18604651	9.302325581	0	6.976744186	2.325581395
493	80 hite 008.8	09/01/1998	en 01a	66.76470588	0	0.342056642	2.916479431	52.64705882	38.52941176	0	0	0.294117647
494	80 anFra028.6	09/24/1998	en 01a	42.97994269	0	0.347683559	3.07425771	32.9512894	30.08595989	0	0	0
495	80Negrit000.1	09/29/1998	en 01a	81.69014085	0	0.401611243	3.540465783	40.49295775	39.08450704	0	2.464788732	0
496	05Cieneg006.3	10/05/1998	en 03	84.49367089	0.949367089	0.341698713	3.127311706	39.24050633	36.70886076	0	1.265822785	1.898734177
497	05Cieneg021.9	10/05/1998	en 01a	29.34782609	0	0.283582918	4.739269962	16.30434783	10.32608696	0.815217391	2.717391304	0
498	05 onil027.2	10/06/1998	en 03	59.55414013	0.318471338	0.403230463	3.652559505	56.68789809	54.14012739	0	0.636942675	0
499	05N onil027.5	10/06/1998	en 03	72.50859107	0	0.443051626	3.877797715	52.9209622	45.01718213	0	1.374570447	4.810996564
500	05N onil000.1	10/07/1998	en 03	79.32330827	0	0.381710242	2.865587996	22.93233083	20.30075188	0	0.37593985	6.015037594
501	05 ayado033.8	10/07/1998	en 03	61.53846154	0	0.43513978	3.508498899	37.12374582	36.78929766	0	1.337792642	0
502	05 onil000.1	10/08/1998	en 03	85.71428571	0	0.389844194	3.952415939	20.68965517	15.7635468	0	0	1.477832512
503	05 onilC023.8	10/08/1998	en 03	93.9516129	0	0.299727959	2.902005401	16.12903226	15.72580645	0	0	1.209677419
504	29 Chama157.0	10/19/1998	en 01a	68.30188679	3.018867925	0.447650397	4.122063383	37.73584906	37.35849057	0	3.018867925	0
505	29 Chama161.1	10/19/1998	en 01a	73.50993377	0	0.365142551	3.327246796	37.08609272	35.43046358	0	0	0
506	29 Chami002.6	10/19/1998	en 01a	84.95575221	0.294985251	0.28636075	3.089598295	37.46312684	37.46312684	0	0.589970501	0
507	29 Chami002.8	10/19/1998	en 01a	70.74074074	2.592592593	0.396707097	3.03656997	18.51851852	18.51851852	0	2.592592593	0
508	29 Tierr026.1	10/19/1998	en 03	94.25675676	0	0.417529051	4.744867212	42.22972973	32.09459459	0	0.337837838	0
509	29 Chama165.4	10/20/1998	en 01a	87.83783784	0	0.446275567	5.096338857	51.68918919	37.5	0	0	0
510	29NaborC000.1	10/21/1998	en 03	83.4625323	0	0.336518523	3.35659189	28.68217054	17.05426357	0	0.258397933	0
511	29 razo001.6	10/21/1998	en 03	79.13043478	5.507246377	0.377304534	3.593709314	23.76811594	23.47826087	0	5.797101449	0
512	29 razo015.4	10/21/1998	en 03	90.84507042	0	0.389103749	3.363442494	63.02816901	47.18309859	0	0	0
513	29 Chami016.1	10/21/1998	en 01a	91.57509158	0	0.300763919	3.030588373	17.94871795	5.494505495	0	0	0
514	28 edio013.3	11/01/1998	en 01a	91.0543131	0	0.426228218	4.002643004	88.17891374	78.27476038	0	0.638977636	0
515	28 edio016.9	11/01/1998	en 01a	68.93203883	0	0.443398347	2.804910499	68.93203883	61.16504854	0	0.970873786	0
516	28 edio017.5	11/01/1998	en 01a	55.65149137	0	0.31045681	3.216820633	55.65149137	51.0989011	0	2.197802198	0
517	31 Fk em000.1	11/02/1998	en 03	65.59139785	0	0.483806146	4.794705127	53.40501792	33.69175627	0	8.960573477	0.358422939
518	31 an n008.4	11/02/1998	en 03	63.15789474	0.263157895	0.464999907	5.050359446	44.73684211	20.52631579	0	25.78947368	0
519	31 emez 049.2	11/03/1998	en 03	68.68327402	0.355871886	0.410825031	3.54713408	30.96085409	28.82562278	0	13.52313167	0.355871886
520	31 Cebol015.9	11/03/1998	en 03	37.16216216	0	0.276279894	2.63603734	36.14864865	35.81081081	0	2.364864865	0
521	31 uada000.1	11/03/1998	en 01a	68.62745098	0	0.393655108	4.193176055	37.58169935	27.77777778	0	9.803921569	0.653594771
522	31 acas012.2	11/03/1998	en 03	74.69512195	0	0.424534464	4.142921392	62.5	50	0	1.219512195	0
523	31 ulphu000.2	11/03/1998	en 03	10	0	0.232673939	1.947116913	10	10	0	1.176470588	0
524	31 enas000.3	11/04/1998	en 03	88.16326531	0	0.311566988	2.744411921	55.10204082	42.85714286	0	1.428571429	0.408163265
525	31 acas000.5	11/04/1998	en 03	77.70491803	3.278688525	0.516247085	5.244469388	67.86885246	30.16393443	0	9.836065574	0.327868852
526	31 acas011.1	11/04/1998	en 03	64.11609499	1.055408971	0.451108423	3.87366059	41.42480211	34.30079156	0	6.860158311	0.527704485

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
527	31 Cebol000.1	11/05/1998	en 03	72.84768212	0	0.480885735	4.202838059	49.66887417	35.43046358	0	0.993377483	0.331125828
528	31 an n000.1	11/05/1998	en 03	74.13249211	0	0.482758119	4.167461253	63.72239748	34.38485804	0	8.517350158	0
529	08Concha039.1	07/15/1999	en 03	44.78527607	0	0.262413863	1.900845872	15.95092025	15.95092025	0	0	1.840490798
530	29 io so004.7	08/17/1999	en 01a	91.11111111	0	0.103076955	0.788091933	91.11111111	91.11111111	0	2.222222222	0
531	29Coyote017.5	08/20/1999	en 03	64.39169139	0	0.385886468	3.264558294	64.39169139	61.12759644	0	0	0
532	29Coyote017.5	08/20/1999	en 03	56.31768953	0	0.39544018	3.556176697	56.31768953	53.42960289	0	1.083032491	0
533	29 alli048.3	08/24/1999	en 03	69.23076923	0	0.297966248	3.683923844	69.23076923	64.54849498	0	0	0
534	29 alli048.3	08/24/1999	en 01a	47.25738397	0	0.291689676	2.194562549	44.7257384	30.80168776	0	0	0
535	29 alli048.3	08/24/1999	en 03	68.54460094	0	0.445121423	3.730443964	68.54460094	59.62441315	0	0	0
536	29 alle037.8	08/31/1999	en 03	50	0	0.450037046	3.310098753	47.05882353	45.88235294	0	8.823529412	0
537	29 alle037.8	08/31/1999	en 03	72.59036145	0	0.278382087	2.928441818	65.96385542	64.75903614	0	0.602409639	0
538	29 itTus003.4	09/01/1999	en 03	18.9516129	0.403225806	0.300761907	2.176504051	18.9516129	18.9516129	0	5.64516129	0
539	29 itTus003.4	09/01/1999	en 03	8.906882591	2.024291498	0.220677132	2.541116934	8.906882591	8.906882591	0	2.834008097	0
540	29 Can i039.4	09/02/1999	en 03	84.88372093	1.162790698	0.430004816	2.918497175	75.58139535	72.09302326	0	2.325581395	0
541	29 Can i039.4	09/02/1999	en 03	58.88157895	0	0.352840312	3.498321338	21.05263158	16.44736842	0	0.657894737	0
542	29Chihua001.3	09/07/1999	en 03	52.69230769	0	0.484677934	4.495851706	52.69230769	47.69230769	0	1.153846154	0
543	29Chihua001.3	09/07/1999	en 03	75.63739377	0	0.401839299	4.431968221	75.63739377	66.57223796	0	0.566572238	0
544	29 olvad009.0	09/08/1999	en 03	73.1629393	2.236421725	0.283860235	1.740279567	73.1629393	73.1629393	0	6.389776358	0.638977636
545	29 olvad009.0	09/08/1999	en 03	59.25925926	2.880658436	0.408552049	3.276861216	56.37860082	56.37860082	0	7.818930041	0.823045267
546	29 l ito050.2	09/09/1999	en 03	84.31372549	0	0.343350374	3.843744717	82.67973856	77.45098039	0	1.307189542	0
547	29 l ito050.2	09/09/1999	en 03	63.31168831	0	0.403662693	4.537442799	30.51948052	20.45454545	0	0.324675325	0
548	29 Chama118.1	09/10/1999	en 03	84.13173653	0	0.209743104	1.892915696	70.95808383	70.65868263	0	0.299401198	0
549	28 ed iv014.5	09/13/1999	en 01a	75.80645161	0	0.236536858	2.667465349	70.96774194	69.83870968	0	0.322580645	0
550	28 ed iv017.1	09/13/1999	en 01	70.43286867	0	0.212662094	2.52825623	69.40572267	62.80264123	0	3.008070433	0
551	28 ed iv005.3	09/14/1999	en 01a	86.96581197	7.12 -02	0.193108262	2.392878462	50.56980057	50.21367521	0	7.12 -02	0
552	28 ed iv012.7	09/14/1999	en 01	79.1681736	0	0.203858888	2.552813329	46.039783	44.84629295	0	0.325497288	0
553	28Columb000.1	09/15/1999	en 03	64.70004958	0	0.345336089	3.285424598	59.64303421	49.57858205	0	3.073872087	0
554	28 ed iv014.5	09/15/1999	en 01a	62.5599233	0	0.184005573	2.159269955	62.03259827	10.64237776	0	23.34611697	0
555	28 ed iv024.9	09/15/1999	en 01a	40.92016238	0	0.245154604	2.918763073	40.62246279	21.67794317	0	7.090663058	0
556	77 Fk il000.5	09/15/1999	en 01a	84.55486542	0	0.300142514	2.711432257	84.55486542	75.85921325	0	1.739130435	0
558	28 ed iv019.6	09/16/1999	en 01	57.81021898	0	0.26392992	3.031944109	56.64233577	40.58394161	0	4.01459854	0
559	28 ed iv024.1	09/16/1999	en 01a	80.03144654	5.24 -02	0.210112864	3.152677617	78.721174	36.53039832	0	8.542976939	0
560	28 ed iv025.4	09/16/1999	en 01	43.28808446	0	0.211486997	2.38653718	42.44343891	27.63197587	0	3.46907994	0
561	28Cabres005.4	09/17/1999	en 03	67.80159731	8.41 -02	0.282713749	3.602333052	63.80832282	37.95712484	0	0.588482556	0
562	29 io so004.7	09/24/1999	en 03	94.58128079	0	6.93 -02	1.693892545	94.58128079	94.58128079	0	0.492610837	1.477832512
563	29 io so004.7	09/24/1999	en 03	83.10810811	0	0.194014404	3.163244808	82.43243243	82.09459459	0	0	2.364864865
564	29 biqui001.8	09/27/1999	en 03	48.72881356	5.508474576	0.365620184	3.660434785	48.72881356	48.72881356	0	6.355932203	4.237288136
565	29 biqui001.8	09/27/1999	en 03	29.75460123	1.533742331	0.32847109	3.110475064	29.14110429	29.14110429	0	1.533742331	2.45398773
566	29 alli005.5	09/29/1999	en 03	85.71428571	0	0.210758096	0.513898342	85.71428571	85.71428571	0	0	0
567	29 alli005.5	09/29/1999	en 03	27.27272727	0	0.822490874	2.91922674	18.18181818	18.18181818	0	9.090909091	9.090909091
568	29 alli048.3	09/30/1999	en 03	62.44131455	0	0.448668545	3.357399568	62.44131455	45.07042254	0	0.469483568	0
569	29 alli048.3	09/30/1999	en 03	82.65895954	0	0.49061612	3.492913155	75.72254335	47.39884393	0	0	0
570	29 Can i039.4	10/01/1999	en 03	77.00348432	3.832752613	0.424650242	4.417365237	62.71777003	55.40069686	0	4.181184669	0
571	29 Can i039.4	10/01/1999	en 01a	83.11258278	1.655629139	0.334622647	4.202838059	20.52980132	16.22516556	0	1.986754967	0
572	29 Can i039.4	10/01/1999	en 03	81.40703518	1.507537688	0.451430256	4.156193669	41.20603015	34.17085427	0	2.010050251	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
573	29 olvad009.0	10/04/1999	en 03	30.86956522	10	0.487598942	4.781099819	23.47826087	22.60869565	0	16.08695652	2.173913043
574	29 olvad009.0	10/04/1999	en 01a	96.2962963	0.37037037	0.234353155	2.679326444	29.25925926	28.51851852	0	1.111111111	0
575	29 olvad009.0	10/04/1999	en 03	46.8	1.2	0.418686841	3.260006775	33.6	23.2	0	2.8	0
576	29 Tusas000.2	10/06/1999	en 03	52.2556391	0	0.311783504	2.865587996	39.09774436	39.09774436	0	2.631578947	0.37593985
577	29 Chama090.1	10/08/1999	en 01a	80.79470199	0.331125828	0.16202122	1.926300777	80.13245033	80.13245033	0	0.993377483	0
578	29 Chama079.5	10/10/1999	en 03	100	0	0.193156559	1.744505433	85.63218391	83.90804598	0	0	0
579	29 Chama079.5	10/10/1999	en 03	90.87136929	0	0.24527794	2.370188023	75.5186722	73.85892116	0	0	0
580	29 edio002.7	10/12/1999	en 03	67.10526316	12.5	0.436529365	2.985739796	32.23684211	31.57894737	0	13.15789474	0
581	29 Nutri027.5	10/13/1999	en 03	66.66666667	3.418803419	0.273996847	1.469916911	53.84615385	53.84615385	0	3.418803419	0.854700855
582	29 l ito035.9	10/15/1999	en 03	79.49526814	0.630914826	0.410076911	5.035682347	47.6340694	47.31861199	0	1.577287066	0
583	29 l ito035.9	10/15/1999	en 03	88.85448916	0.92879257	0.336070639	3.634694306	57.2755418	50.77399381	0	1.238390093	0
584	04 erme 073.7	10/20/1999	en 01a	81.30841121	0	0.471042906	3.424050092	42.99065421	29.90654206	0	0	0
585	29 alle037.8	10/20/1999	en 03	56.77419355	2.258064516	0.463226815	5.403923875	38.38709677	22.90322581	0	4.838709677	0
586	29 alle037.8	10/20/1999	en 03	68.75	0.390625	0.459980609	4.688758883	47.265625	30.859375	0	1.171875	0
587	29 Tusas028.5	10/21/1999	en 03	84.57446809	0.531914894	0.2840916	3.055509851	81.91489362	81.91489362	0	0.531914894	0
588	29 Tusas028.5	10/21/1999	en 03	90.14084507	2.34741784	0.418218039	2.611310775	47.88732394	46.94835681	0	2.34741784	0
589	30 a ari015.8	06/15/2000	en 01a	29.26829268	0	0.282687255	2.042335691	29.26829268	28.04878049	0	1.219512195	0
590	30 a ari016.3	06/15/2000	en 01a	67.85714286	0	0.530249545	3.385380322	67.85714286	64.28571429	0	4.761904762	0
591	77 onner002.4	07/06/2000	en 03	0	14.28571429	0.656265789	1.541695027	0	0	0	14.28571429	0
592	77 onner002.4	07/06/2000	en 03	0	0	0.405410191	1.803368801	0	0	0	6.25	0
593	29 alli048.3	07/13/2000	en 03	73.79032258	0	0.468307601	3.990257427	73.79032258	41.53225806	0	0	0
594	29 alli048.3	07/13/2000	en 03	73.79032258	0	0.468307601	3.990257427	73.79032258	41.53225806	0	0	0
595	07 ora i132.9	07/15/2000	en 01a	46.98275862	0	0.378746102	3.48832681	44.82758621	40.51724138	0	0	0
596	07 ora i146.6	07/15/2000	en 03	47.58064516	0	0.336124076	1.995128713	44.75806452	44.75806452	0	0	0
597	07 ora i147.1	07/15/2000	en 03	37.12121212	0	0.355784251	3.048808317	29.92424242	29.54545455	0	0	0
598	07 ora i179.1	07/15/2000	en 03	63.87434555	0	0.464415432	4.379056101	62.82722513	58.11518325	0	2.094240838	0
599	78 ila i074.8	07/18/2000	en 03	12.8	30.4	0.505523093	4.142232897	8.8	8	0	30.4	8
600	78 ila i074.8	07/18/2000	en 03	47.91666667	10	0.492401153	4.926432917	41.25	39.58333333	0	10.41666667	6.666666667
601	77 Fk il010.0	07/20/2000	en 03	44.44444444	0	0.693126721	1.820478453	44.44444444	44.44444444	0	0	22.22222222
602	77 Fk il010.0	07/20/2000	en 03	79.59183673	0	0.37998478	3.999085147	27.75510204	26.53061224	0	0	1.224489796
603	77 obcat000.8	07/22/2000	en 03	28.57142857	33.16326531	0.377586411	2.652462272	28.57142857	28.57142857	0	33.16326531	12.24489796
604	77 lackC028.3	07/29/2000	en 03	91.6	0	0.223619203	2.535560825	91.6	91.2	0	0	0.4
605	77 lackC028.3	07/29/2000	en 03	72.19917012	0	0.373418687	3.099476645	58.09128631	56.01659751	0	0	3.319502075
606	77 Fk il012.1	07/31/2000	en 03	64	4	0.645456209	2.796007206	56	56	0	4	0
607	77CubCre005.6	08/08/2000	en 03	66.16541353	0	0.509608709	3.680718805	66.16541353	48.12030075	0	0	0.751879699
608	77 Fk il038.1	08/09/2000	en 03	29.77099237	0.381679389	0.318340045	3.052972026	29.77099237	29.77099237	0	1.526717557	1.145038168
609	77 Fk il038.1	08/09/2000	en 03	51.34228188	0	0.423478089	4.037146319	26.17449664	26.17449664	0	0.33557047	0.67114094
610	77 Fk il028.3	08/12/2000	en 03	80.67226891	0	0.377178374	4.203008472	80.67226891	73.1092437	0	0.420168067	3.781512605
611	77 Fk il028.3	08/12/2000	en 03	68.66359447	0	0.430903455	3.531665895	68.66359447	64.51612903	0	0	0
612	77 illow000.6	08/15/2000	en 03	69.81981982	0	0.386749505	2.96149462	68.91891892	68.91891892	0	0.900900901	1.351351351
613	77 illow000.6	08/15/2000	en 03	57.80590717	0	0.365394266	3.291843823	54.43037975	53.58649789	0	2.53164557	0
614	28 Ferna008.2	09/06/2000	en 03	26.69491525	0	0.461447605	4.209500003	26.69491525	25	0	6.779661017	0
615	28 anc011.1	09/07/2000	en 03	42.85714286	0	0.438118601	3.903420199	32.25806452	24.42396313	0	0.460829493	0
616	28 anc015.6	09/07/2000	en 03	34.07407407	0	0.360581068	3.9974103	28.39506173	20.24691358	0	0.987654321	0
617	28 rand650.8	09/08/2000	en 03	66.44736842	0	0.357777036	2.798657071	34.86842105	15.46052632	0	1.644736842	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
618	28 uebT000.1	09/08/2000	en 01a	37.43315508	0	0.29754825	2.531963594	25.93582888	17.11229947	0	0.802139037	0
619	77 illow000.6	09/12/2000	en 03	35.4368932	0.970873786	0.479937494	4.879993299	35.4368932	31.06796117	0	3.398058252	0.970873786
620	77 illow000.6	09/12/2000	en 01a	65.16853933	0.449438202	0.319141417	2.78776532	48.31460674	48.31460674	0	0.898876404	0
621	77 illow000.6	09/12/2000	en 03	43.08943089	1.219512195	0.408594918	3.814484171	39.02439024	36.99186992	0	3.658536585	0
622	78 ila i074.8	09/12/2000	en 03	8.088235294	75	0.321660609	3.256894769	5.147058824	5.147058824	0	75.73529412	2.941176471
623	78 ila i074.8	09/12/2000	en 03	46.93877551	22.95918367	0.374479646	3.031385454	46.93877551	46.93877551	0	22.95918367	1.020408163
624	77 lackC028.3	09/13/2000	en 03	66.367713	0	0.317385852	3.513851752	65.02242152	61.88340807	0	0	0.448430493
625	77 lackC028.3	09/13/2000	en 03	62.56410256	0	0.42051188	3.223971444	57.94871795	48.20512821	0	0	1.025641026
626	78 ila i074.8	09/15/2000	en 03	55.55555556	5.185185185	0.36971493	3.751057022	53.7037037	53.7037037	0	5.185185185	0.740740741
627	77 ila i092.0	09/16/2000	en 03	17.76649746	17.25888325	0.460167194	3.785581822	15.2284264	14.21319797	0	17.76649746	13.70558376
628	77 ila i092.0	09/16/2000	en 03	25.17006803	2.040816327	0.430298885	3.005751453	21.76870748	20.40816327	0	2.040816327	20.40816327
629	78 ila i026.1	09/18/2000	en 03	50	0	1	2.790553133	50	50	0	0	0
630	78 ila i026.1	09/18/2000	en 03	46.25	0	0.531649794	2.738458937	32.5	28.75	0	1.25	7.5
631	78 ila i026.1	09/19/2000	en 03	60.86956522	0	0.69993557	3.508218878	56.52173913	56.52173913	0	4.347826087	4.347826087
632	78 ila i026.1	09/19/2000	en 03	65.26315789	0	0.465035015	3.892090599	61.75438596	56.84210526	0	0	11.92982456
633	78 ila i026.1	09/19/2000	en 01a	70.83333333	0	0.484995852	4.278848137	56.48148148	54.62962963	0	0.925925926	5.555555556
634	77 Fk il010.0	09/21/2000	en 03	38.70967742	6.451612903	0.67697869	3.785686791	19.35483871	12.90322581	0	6.451612903	6.451612903
635	77 Fk il010.0	09/21/2000	en 03	47.72727273	0	0.572196689	3.796899966	43.18181818	23.86363636	0	0	1.136363636
636	77 Fk il010.0	09/21/2000	en 01a	48.40764331	0	0.474963289	2.966627925	39.49044586	32.48407643	0	0	1.27388535
637	05 onil004.0	09/22/2000	en 01a	65.23809524	0	0.437631656	3.927356964	45.71428571	42.85714286	0	5.238095238	0
638	78 ila i052.6	09/22/2000	en 03	82.90879211	0	0.257435186	3.378309855	76.82826623	76.82826623	0	0.164338537	1.972062449
639	78 ila i052.6	09/22/2000	en 01a	67.38461538	0	0.395240214	2.939231298	58.46153846	58.46153846	0	0.615384615	1.538461538
640	28 ucer013.0	09/25/2000	en 03	87.39495798	0	0.418048065	4.568487469	83.61344538	40.75630252	0	0.420168067	0
641	27 an n025.3	09/26/2000	en 03	69.18238994	0.943396226	0.224653756	3.644535358	67.29559748	67.29559748	0	5.974842767	0.314465409
642	27 inos000.8	09/27/2000	en 03	64.98054475	2.33463035	0.441654208	4.32504432	20.23346304	19.45525292	0	2.33463035	0
643	27 inos011.3	09/27/2000	en 03	70.80745342	1.242236025	0.385425746	4.675687763	24.8447205	23.60248447	0	1.863354037	0
644	05 onil004.0	09/29/2000	en 03	69.23076923	0	0.41201929	4.066053332	48.29059829	39.95726496	0	0	0
645	05 onil007.2	09/29/2000	en 03	79.94505495	0	0.463527071	4.578479824	68.95604396	59.34065934	0	1.648351648	0
646	05 onil007.2	09/29/2000	en 01a	68.57142857	0	0.460378663	3.817308549	62.04081633	57.14285714	0	6.12244898	0
647	29 olvad009.0	09/29/2000	en 03	23.07692308	24.88687783	0.432478241	3.519716068	22.62443439	22.62443439	0	25.7918552	5.882352941
648	29 olvad009.0	09/29/2000	en 01a	45.37815126	3.361344538	0.47641153	4.568487469	24.78991597	22.26890756	0	3.781512605	2.941176471
649	29 olvad009.0	09/29/2000	en 03	46.77966102	3.050847458	0.350873433	3.340967528	31.18644068	30.84745763	0	3.389830508	3.728813559
650	29 alle037.8	10/06/2000	en 03	59.01060071	0.35335689	0.397866764	4.605481279	23.67491166	20.49469965	0	2.120141343	0
651	29 alle037.8	10/06/2000	en 03	37.41258741	1.048951049	0.363310905	4.243287615	31.11888112	25.87412587	0	8.391608392	0
652	29 alle037.8	10/06/2000	en 01a	69.45701357	2.714932127	0.308523499	4.268375851	23.30316742	21.26696833	0	4.751131222	0
653	28Casias000.6	10/13/2000	en 03	71.94570136	0	0.451642139	4.260708925	69.23076923	43.89140271	0	0	0
654	31 Fk em025.4	10/16/2000	en 01a	82.78601695	0.211864407	0.15607785	2.386231968	9.639830508	9.639830508	0	5.402542373	0.105932203
655	28 Costi025.6	10/26/2000	en 03	74.14965986	0.340136054	0.3482058	4.046745351	22.10884354	13.60544218	0	2.040816327	0
656	31 arami008.0	10/26/2000	en 01a	72.51184834	6.042654028	0.360360166	4.007033088	22.27488152	22.03791469	0	13.27014218	0
657	31 Indio000.2	10/26/2000	en 01a	28.20512821	0	0.272259465	3.088664136	13.15496098	7.246376812	0	6.577480491	0
658	31 an n036.8	10/26/2000	en 01a	9.174311927	4.587155963	0.291880501	2.159458303	9.174311927	9.021406728	0	65.29051988	0
659	28Comanc000.1	10/30/2000	en 03	74.81481481	0	0.360881431	3.03656997	61.85185185	57.40740741	0	1.111111111	0
660	28Comanc007.7	10/30/2000	en 03	67.77408638	0	0.373830868	3.504400489	34.2192691	24.58471761	0	1.328903654	0
661	28 Costi048.6	10/30/2000	en 03	68.32298137	0	0.430371468	3.290298796	58.38509317	30.1242236	0	0	0
662	28 rand731.6	10/30/2000	en 03	74.75409836	1.639344262	0.333231127	2.971865986	14.09836066	12.45901639	0	6.557377049	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
663	28 Hondo000.1	10/30/2000	en 01a	37.87878788	2.272727273	0.429259981	4.124858311	17.42424242	10.98484848	0	5.303030303	0
664	28 Hondo014.8	10/30/2000	en 01a	85.71428571	0	0.487114361	4.702112929	84.92063492	45.23809524	0	0.793650794	0
665	28 uebT003.5	10/30/2000	en 01a	53.40909091	0	0.42323359	4.124858311	35.22727273	23.48484848	0	11.74242424	0
666	28 Ferna032.5	10/31/2000	en 03	48.64864865	0	0.446171345	4.597387765	47.02702703	47.02702703	0	2.702702703	0
667	28 i lla000.8	10/31/2000	en 03	77.23880597	0	0.451001237	3.756045234	54.10447761	40.67164179	0	2.985074627	0
668	05 onil004.0	11/11/2000	en 03	38.98305085	0	0.425729012	2.724975768	31.3559322	22.88135593	0	1.694915254	0
669	05 onil004.0	11/11/2000	en 01a	50.87719298	0	0.533505149	3.21539331	40.35087719	26.31578947	0	1.754385965	0
670	05 onil007.2	11/11/2000	en 03	32.35294118	0	0.380215039	4.158856906	29.90196078	22.79411765	0	5.637254902	0
671	05 onil007.2	11/11/2000	en 01a	21	0	0.395888226	3.963522482	19	11.5	0	6.5	0
672	50 eaver000.1	08/27/2001	en 01a	36.2745098	0	0.477519298	4.108132257	33.33333333	22.54901961	0	0	0
673	50 l orv012.6	08/27/2001	en 01a	31.96202532	0	0.338054627	3.648530323	30.69620253	18.98734177	0	0.316455696	0
674	50Holing000.1	08/27/2001	en 01a	40.78212291	0	0.454603251	4.241057215	39.10614525	28.49162011	0	0	0
675	30Capuli012.7	09/12/2001	en 03	48.6631016	0	0.411440691	3.440953212	25.13368984	22.99465241	0	0.534759358	13.36898396
676	28 an a017.9	09/15/2001	en 01a	80.83623693	0	0.442573753	3.710586799	79.44250871	69.33797909	0	0	0
677	28 Chupa015.2	10/04/2001	en 03	79.65367965	0	0.389594264	4.593546716	78.35497835	35.06493506	0	0.432900433	0
678	28 rand624.3	10/04/2001	en 03	91.09131403	0	0.18573114	2.619934507	16.48106904	15.3674833	0	0.668151448	0
679	28 edio007.2	10/04/2001	en 03	87.96680498	0	0.400076628	3.828765268	79.25311203	41.07883817	0	0	0
680	28 uema003.1	10/04/2001	en 03	25.70422535	0	0.266761734	2.832372627	9.85915493	8.098591549	0.352112676	1.056338028	0.352112676
681	28 anCru019.1	10/04/2001	en 03	62.76595745	0	0.390383841	3.544900642	49.64539007	41.13475177	0	0.709219858	0
682	28Tesuqu023.4	10/04/2001	en 03	71.54811715	0	0.4699772	4.199790573	52.71966527	33.89121339	0	0	0
683	28 mbudo000.8	10/05/2001	en 01a	79.85347985	0	0.289571911	2.674048564	42.12454212	41.02564103	0	0.732600733	0
684	28 mbudo020.5	10/05/2001	en 03	68.81355932	0	0.3720557	2.285925151	25.42372881	25.42372881	0	0	0
685	28 uebl000.3	10/05/2001	en 03	60.86956522	0.790513834	0.415966778	2.710815863	23.3201581	23.3201581	0	2.371541502	0
686	28 uebl012.4	10/05/2001	en 03	44.7257384	0	0.374290314	3.291843823	36.70886076	18.56540084	0	5.063291139	0
687	28 uebl019.0	10/05/2001	en 03	60.23166023	0	0.397265929	4.139051946	49.03474903	34.74903475	0	0.386100386	0
688	28 an a000.1	10/05/2001	en 01a	70	0	0.391592684	4.207734097	31.66666667	29.66666667	0	0.333333333	0
689	28 Nambe005.1	10/11/2001	en 03	81.93832599	0	0.481081873	4.055336902	63.87665198	37.88546256	0	0	0
690	28 rand541.2	10/17/2001	en 01a	87.09677419	0	0.352014853	2.720630064	61.29032258	60.88709677	0	0.806451613	0
691	28 rand541.2	10/18/2001	en 01a	82.42811502	0	0.346652134	3.13250322	64.85623003	64.53674121	0	2.236421725	0.319488818
692	29 io so004.7	10/22/2001	en 01a	66.66666667	0	0.871049064	2.232442506	50	50	0	16.66666667	16.66666667
693	29 io so004.7	10/22/2001	en 03	19.04761905	0	0.383213839	1.689541968	19.04761905	19.04761905	0	38.0952381	0
694	29 io so004.7	10/22/2001	en 03	27.27272727	0	0.842328277	2.91922674	27.27272727	27.27272727	0	0	9.090909091
695	29 alli048.3	10/23/2001	en 01a	60.98843323	0	0.30996804	4.083112298	60.98843323	56.3617245	0	0	0
696	29 alli048.3	10/23/2001	en 03	70.71129707	0	0.430468131	3.651991803	68.20083682	62.34309623	0	0	0
697	29 olvad009.0	10/24/2001	en 03	42.42424242	1.683501684	0.424675762	4.215161412	37.71043771	32.65993266	0	2.356902357	11.78451178
698	29 olvad009.0	10/24/2001	en 03	62.02090592	2.43902439	0.401111268	4.594059847	61.32404181	60.6271777	0	4.181184669	9.756097561
699	29 olvad009.0	10/24/2001	en 01a	61.6	1.12	0.392725885	5.281346944	35.52	35.52	0	1.76	2.4
700	29 olvad009.0	10/24/2001	en 03	64.02877698	0.71942446	0.388765376	4.264679429	61.51079137	57.55395683	0	1.798561151	5.755395683
701	29 alle037.8	10/25/2001	en 01	65.0862069	0	0.378675467	3.671922958	40.0862069	37.93103448	0	0.862068966	0
702	29 alle037.8	10/25/2001	en 01	69.09090909	0.606060606	0.432790105	4.308702494	40.60606061	35.15151515	0	2.424242424	0
703	29 alle037.8	10/25/2001	en 01	65.98639456	0	0.486151311	4.007668604	47.61904762	42.85714286	0	8.163265306	0
704	30 alist030.9	10/31/2001	en 03	69.0821256	0	0.297009083	3.187867326	69.0821256	66.66666667	0	0.483091787	0
705	30 alist050.4	10/31/2001	en 03	71.63636364	0	0.212778592	2.492535259	70.90909091	69.81818182	0	0.363636364	3.636363636
706	30 Fri o003.0	11/01/2001	en 03	30.76923077	0	0.304662722	2.655035307	25.64102564	11.28205128	0	2.051282051	0.512820513
707	77 illow000.6	11/05/2001	en 03	47.49034749	0	0.3689072	3.959093165	47.49034749	47.1042471	0	1.158301158	0.772200772

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
708	77 illow000.6	11/05/2001	en 03	55.87301587	1.26984127	0.443808971	4.519716939	54.92063492	53.96825397	0	7.936507937	1.904761905
709	77 illow000.6	11/05/2001	en 03	72.01646091	0.823045267	0.388731461	3.823004752	65.8436214	65.43209877	0	4.938271605	0
710	77 illow000.6	11/05/2001	en 01	51.39318885	0.309597523	0.404346442	4.636212261	42.41486068	41.17647059	0	6.965944272	0
713	77 lackC016.8	11/06/2001	en 01	82.07885305	0.17921147	0.27793204	4.427326179	78.85304659	77.95698925	0	0.716845878	0
716	77 lackC028.3	11/06/2001	en 03	56.81818182	0	0.491137278	3.868109836	45.45454545	40.90909091	0	0	0
717	77 lackC028.3	11/06/2001	en 03	21.42857143	0	0.205963582	3.585651915	21.42857143	16.45021645	0	0	0.216450216
718	77 lackC028.3	11/06/2001	en 03	36.52849741	0	0.296292174	2.854342546	36.01036269	29.53367876	0	0	0
719	78 ila i074.8	11/07/2001	en 01	75.04873294	0.194931774	0.431750142	4.647230462	48.34307992	44.63937622	0	0.584795322	1.754385965
720	78 ila i074.8	11/07/2001	en 03	73.38403042	0	0.432524652	4.127667661	55.51330798	54.75285171	0	0.760456274	1.140684411
723	78 ila i074.8	11/07/2001	en 03	60.61643836	0	0.418865307	3.875454312	52.05479452	47.94520548	0	0.342465753	1.02739726
724	78 ila i074.8	11/07/2001	en 03	51.34099617	1.149425287	0.447734079	5.571010209	48.65900383	45.59386973	0	2.681992337	9.578544061
725	77 Fk il000.5	11/08/2001	en 01	74.10805301	0	0.399664612	5.080878543	36.59531091	29.66360856	0	3.975535168	3.058103976
728	77 Fk il010.0	11/08/2001	en 03	46.85314685	0	0.504261159	5.304109518	31.46853147	22.02797203	0	0.699300699	8.741258741
729	77 Fk il010.0	11/08/2001	en 03	64.08163265	0.816326531	0.448956698	4.54441494	63.67346939	63.26530612	0	7.346938776	11.83673469
730	77 Fk il010.0	11/08/2001	en 03	53.48837209	0	0.519755801	5.042356166	42.24806202	25.19379845	0	1.937984496	7.364341085
731	78 ila i026.1	11/09/2001	en 01a	64.65661642	0	0.388576544	3.59829447	52.7638191	48.74371859	0	2.680067002	16.75041876
732	78 ila i026.1	11/09/2001	en 03	64.06926407	0	0.418195435	3.307353635	60.17316017	57.14285714	0	6.926406926	8.658008658
733	78 ila i026.1	11/09/2001	en 03	83.41013825	0	0.439907709	3.15991159	71.88940092	71.88940092	0	1.843317972	8.755760369
734	78 ila i026.1	11/09/2001	en 03	68.01801802	0	0.422726228	3.701868275	63.96396396	62.61261261	0	3.603603604	20.27027027
735	05Cimmar018.4	03/28/1991	en 03	41.53846154	0	0.27707617	2.853155339	35.76923077	35.76923077	0	0.384615385	0.256410256
736	05Cimmar072.7	03/29/1991	en 03	84.28390368	0	0.282351238	3.802326031	67.36375158	64.82889734	0	0.570342205	0
737	56 ecos 301.0	04/17/1991	en 03	29.05660377	12.45283019	0.353505968	2.509082059	27.54716981	27.54716981	0	12.45283019	3.018867925
738	59 enas138.4	06/12/1991	en 03	27.97270955	2.729044834	0.22599644	1.874975745	27.97270955	27.97270955	9.75 -02	9.941520468	0
739	60 arkCa085.1	06/13/1991	en 03	28.01724138	1.149425287	0.31817304	3.513945197	8.764367816	7.327586207	0	1.293103448	2.729885057
740	07Coyote040.0	06/19/1991	en 03	70.16129032	0	0.475794491	4.149135217	59.67741935	59.67741935	0	0	0.806451613
741	60 ecos 124.7	06/30/1991	en 03	50.88300221	0.220750552	0.221367762	2.056090349	2.869757174	2.869757174	0	3.973509934	10.37527594
742	58 Feli 114.1	07/12/1991	en 03	66.97247706	1.834862385	0.474219456	2.771058622	54.12844037	54.12844037	0	10.09174312	0.917431193
743	07 apell057.4	07/30/1991	en 03	81.5575987	0	0.296849351	2.525789564	66.52244456	66.52244456	0	1.24391563	0
744	50 ecos 575.0	07/31/1991	en 03	44.9197861	0.802139037	0.387687025	3.207153886	19.2513369	19.2513369	0	18.44919786	1.604278075
745	52 ecos 483.8	08/01/1991	en 03	0.555555556	9.444444444	0.319649017	2.503390722	0.555555556	0.555555556	0	38.88888889	8.333333333
746	62 elawa001.0	08/05/1991	en 03	79.16666667	0	0.363862482	1.573289902	70.83333333	70.83333333	0	12.5	8.333333333
747	62 elawa001.0	08/06/1991	en 01a	75	9.375	0.509860098	2.308312065	59.375	56.25	0	9.375	0
748		08/07/1991	en 03	0	0			0	0	0	0	0
749	41 rand204.5	08/14/1991	en 03	42.76315789	0	0.333486886	0.995246599	32.89473684	32.89473684	0	0	0
750	62 ecos 002.7	08/15/1991	en 03	57.89473684	0	0.250940265	1.871840946	0.4784689	0.4784689	0	0.956937799	5.741626794
751	77 Fk il010.0	08/15/1991	en 03	72.58883249	1.776649746	0.396932912	3.346523707	43.14720812	42.63959391	0	3.299492386	4.822335025
752	09Canadi184.1	08/23/1991	en 03	7.60 -02	0	5.00 -02	0.583574504	7.60 -02	7.60 -02	0	0.152091255	0
753	50 ecos 784.7	09/10/1991	en 03	87.4015748	0	0.385387792	2.270762835	85.82677165	55.11811024	0	0	0
754	50 ecos 787.8	09/10/1991	en 03	78.61271676	0	0.265409422	2.223575838	78.61271676	59.8265896	0	6.069364162	0
755	66 nimas048.0	09/12/1991	en 03	81.7679558	0	0.31126174	1.731269624	71.27071823	71.27071823	0	2.209944751	2.209944751
756	28Casias000.6	09/18/1991	en 03	28.14594192	5.063291139	0.282548968	3.332101753	24.94415488	23.08265078	0	5.063291139	0
757	28 Costi046.7	09/19/1991	en 03	48.95666132	0.642054575	0.359802017	2.797399933	44.14125201	9.149277689	0	1.284109149	0
758	75 esca009.7	06/16/1992	en 03	22.43150685	0	0.187193191	2.544013689	12.956621	12.89954338	0	5.71 -02	0
759	75 esca024.8	06/16/1992	en 03	15	3.333333333	0.410235636	2.442393367	15	15	0	6.666666667	0
760	06Canadi322.5	06/17/1992	en 03	48.11742183	0	0.241957613	2.174823679	22.84620294	22.84620294	0	1.595405233	1.021059349

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
761	04Canadi363.5	06/19/1992	en 03	89.49832776	6.69 -02	0.15905477	2.73602247	79.26421405	79.26421405	0	0.602006689	1.070234114
762	04Canadi402.9	06/25/1992	en 03	53.16804408	1.101928375	0.351138965	2.71443952	45.73002755	45.73002755	0	9.917355372	0.275482094
763	07 ora i078.7	06/26/1992	en 03	85.55045872	7.65 -02	0.22664258	3.065666066	61.85015291	61.85015291	0	0.611620795	0.764525994
764	56 ecos 194.6	07/08/1992	en 03	70.39473684	0.493421053	0.116814393	2.244497392	1.677631579	1.677631579	0	0.493421053	1.315789474
765	80 anFra159.3	07/15/1992	en 03	53.64963504	0.182481752	0.420369971	3.805733005	33.02919708	29.74452555	0	2.554744526	0
766	78 ila i003.5	07/28/1992	en 03	67.21044046	1.549755302	0.343348049	3.937277971	66.47634584	66.47634584	0	2.20228385	1.549755302
767	60 lue p003.4	08/05/1992	en 03	1.670533643	0.510440835	4.95 -02	1.563406694	0.139211137	0.139211137	0	93.68909513	1.438515081
768	77 Fk il000.3	08/15/1992	en 03	67.5862069	0.344827586	0.412959258	4.24326273	45.34482759	36.72413793	0	0.689655172	0
769	50 acksC008.4	08/16/1992	en 03	49.88066826	0	0.3941618	3.974911077	42.48210024	28.40095465	0	0.954653938	0
770	50 ecos 828.4	08/25/1992	en 03	49.45054945	0	0.473228793	4.035352232	44.50549451	34.06593407	0	1.098901099	0
771	50 ecos 802.1	09/08/1992	en 03	94.91525424	0	0.301211278	2.779737013	94.29892142	78.42835131	0	0	0
772	80TroutC002.1	09/22/1992	en 03	83.90804598	0	0.33994189	2.687023486	24.13793103	24.13793103	0	1.149425287	1.149425287
773	42 rand087.9	09/29/1992	en 03	31.4277338	0	0.156418334	1.966867918	8.472588684	8.472588684	0	0.674289065	0.703605981
774		09/30/1992	en 03	0	0			0	0	0	0	0
775	32 rand322.1	10/01/1992	en 03	44.28571429	0	0.371061638	1.883019644	44.28571429	44.28571429	1.428571429	1.428571429	1.428571429
776	05 ccrys007.0	05/12/1993	en 03	66.66666667	0	0.416528084	4.778834243	66.43518519	38.88888889	0	0	0
777	48 altCr021.7	09/16/1993	en 03	61.84210526	0	0.36259075	1.38544665	35.52631579	35.52631579	0	0	13.15789474
778	30 a ari000.1	10/13/1993	en 01a	73.96963124	0	0.340881439	3.42387692	47.28850325	47.28850325	0	1.084598698	3.470715835
779	32 rand294.5	10/13/1993	en 03	61.62790698	2.325581395	0.414129373	2.46949761	61.62790698	61.62790698	1.162790698	3.488372093	2.325581395
780	30 a ari012.6	07/22/1994	en 01a	23.046875	0	0.265564449	3.045689531	21.6796875	21.6796875	0	5.078125	0
781	30 a ari016.1	07/22/1994	en 01a	46.75615213	0	0.371179208	2.7857168	45.86129754	35.34675615	0	13.87024609	0
782	50 ecos 687.4	08/11/1994	en 03	86.2745098	0	0.477095309	2.289013003	64.70588235	56.8627451	0	7.843137255	0
783	31 an n009.1	08/17/1994	en 03	0	0	0.22458359	1.104962913	0	0	0.354609929	0.354609929	34.92907801
784	09Canadi039.0	11/15/1995	en 03	1.453488372	0	0.189052858	1.369712519	0.290697674	0.290697674	0	0	2.325581395
785	28 andia012.1	03/20/1996	en 01a	92.8125	0	0.186315272	1.38688537	50.3125	50.3125	0	0.625	1.5625
786	28 andia016.1	03/28/1996	en 01a	0	0	0.213747788	0.946395456	0	0	0	14.21319797	21.31979695
787	07Coyote011.8	04/11/1996	en 03	40	0	0.655458754	1.242669869	40	40	0	0	0
788	07Coyote047.9	04/11/1996	en 03	21.84331797	1.474654378	0.251366319	2.289201961	7.649769585	7.649769585	0	31.88940092	0
789	28 andia015.8	04/30/1996	en 01a	0.893945551	0	7.03 -02	1.664890133	0.893945551	0.893945551	4.06 -02	4.022754978	2.153596099
790	59 quaCh050.2	07/16/1996	en 03	22.17659138	0.410677618	0.282067946	2.908731696	21.97125257	21.97125257	0	52.97741273	2.669404517
791	30Can al003.7	05/12/1997	en 01a	48.99451554	0	0.357278329	3.330981131	34.73491773	34.73491773	0	0.182815356	5.850091408
792	08Tremen026.2	07/16/1997	en 03	51.41843972	3.90070922	0.453537833	4.253880771	40.07092199	37.23404255	0	6.028368794	3.191489362
793	16 eneca048.5	07/17/1997	en 03	24.27184466	0	0.395097619	3.753840999	20.38834951	17.96116505	0	16.50485437	0.485436893
794	10 alo l005.1	07/23/1997	en 03	45.82933845	0.67114094	0.338359705	4.02886019	30.29721956	30.29721956	0	2.780441035	0.383509108
795	51 guaNe004.2	07/28/1997	en 03	58.62068966	0	0.440236106	1.723949821	50	50	0	1.724137931	0
796	56Cotton025.9	07/28/1997	en 03	11.2244898	11.2244898	0.565513529	4.143977049	10.20408163	8.163265306	0	36.73469388	7.142857143
797	60Chosa 004.5	08/26/1997	en 03	30.6122449	10.20408163	0.542737729	2.569491712	30.6122449	24.48979592	0	32.65306122	12.24489796
798	60 rapev013.0	08/27/1997	en 03	31.61290323	2.580645161	0.436622031	3.569003124	27.09677419	20.64516129	0	29.67741935	11.61290323
799	40 lamos054.9	09/18/1997	en 03	29.8245614	0	0.292461234	2.122958509	24.9122807	17.89473684	0	0.350877193	4.912280702
800	36 an o015.0	10/01/1997	en 03	0	81.69934641	8.32 -02	0.174715669	0	0	0	100	0
801	10UteCre145.0	10/16/1997	en 03	53.68421053	0	0.389383934	3.239931772	7.368421053	7.368421053	0	5.263157895	0
802	32 rand373.5	10/21/1997	en 03	4.032258065	0	0.128295071	1.244740565	3.225806452	0	0	1.612903226	0
807	30 a ari018.5	05/25/2000	en 01a	34.7985348	0	0.347720565	2.855955607	34.7985348	27.10622711	0	30.03663004	0
812	30Can al004.0	05/25/2001	en 01a	40.50343249	0	0.333022901	2.631607863	40.50343249	40.50343249	0	11.21281465	0.457665904
813	30Can al004.0	05/25/2001	en 03	6.333333333	0	0.188514555	1.75322254	6.333333333	5.666666667	0	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	StationID	CollDate	Coll eth	EPTPct	GastrPct	Evenness	D g	EPTnHPct	EPTsenPct	IsoPct	NonInPct	donPct
814	30Can al004.2	05/25/2001	en 01a	26.29310345	0	0.31463366	3.121134514	26.29310345	26.29310345	0	10.34482759	3.879310345
815	30Can al003.7	06/01/2001	en 03	25.86805556	0	0.327656916	3.303908795	25.86805556	25.86805556	0	26.5625	5.208333333
816		06/01/2001	en 03	0	0			0	0	0	0	0
817	30Can al003.7	06/15/2001	en 01a	43.18181818	0	0.320449126	2.966463639	43.18181818	43.18181818	0	0	2.727272727
818	30 rand535.1	02/17/2003	en 03	4.032258065	0	0.128295071	1.244740565	3.225806452	0	0	1.612903226	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
23	0	0	4.6875	0	0	42.70833333	0	0	1.041666667	51.5625	1.159860086	1.673324394
24	0	0	20.31746032	0	0	39.57671958	0	0	6.137566138	19.89417989	2.364630159	3.411440204
25	0	0	4.554263566	0	0	69.96124031	0	0	7.751937984	17.63565891	2.026433924	2.923526173
26	0	0	10.13215859	0	0	23.1277533	0	0	11.89427313	53.30396476	2.05260649	2.961285203
27	0	0	12.91322314	0	0	12.08677686	0	0	11.26033058	47.41735537	2.4179121	3.488309796
28	0	0	4.980079681	0	0	40.43824701	0	0	12.5498008	40.23904382	2.494810279	3.599250417
29	2.469135802	0	6.995884774	0	0	63.78600823	0	0	9.053497942	16.04938272	1.408326947	2.031786303
30	0.126262626	0	6.818181818	0	0	58.45959596	0	0	8.207070707	20.45454545	2.287910207	3.30075671
31	0.340136054	0	6.802721088	0	0	42.85714286	0	0	42.85714286	2.721088435	1.696579568	2.44764693
32	0	0	8.963585434	0	0	64.42577031	0	0	18.20728291	7.282913165	1.473833364	2.126292085
33	0	0	4.564315353	0	0	58.22959889	0	0	16.87413555	16.87413555	1.992023718	2.873882739
34	1.186440678	0	2.372881356	0	0	52.54237288	0	0	14.74576271	27.96610169	1.860423921	2.684024364
35	0	0	12.35521236	0	0	59.07335907	0	0	12.35521236	12.93436293	1.668859673	2.407655574
36	2.454780362	0	0.516795866	0	0	51.9379845	0	0	13.95348837	9.043927649	1.732081422	2.498865278
37	0.632911392	0	8.016877637	0	0	61.81434599	0	0.210970464	9.282700422	10.75949367	2.365953896	3.413349953
38	0.668896321	0	0.501672241	0	0	69.89966555	0	0.668896321	3.177257525	13.04347826	1.772544593	2.557241294
39	1.185770751	0	6.719367589	0	0	68.24769433	0	0	6.192358366	13.83399209	1.851414253	2.671026161
40	0	0	1.818181818	0	0	43.63636364	0	0	22.72727273	17.72727273	1.98406249	2.862397115
41	0	0	3.017241379	0	0	29.31034483	0	0	34.05172414	20.68965517	2.345251276	3.383482385
42	0	0	6.92124105	0	0	51.31264916	0	0	26.73031026	9.307875895	1.635644064	2.359735579
43	0	0	1.984126984	0	0	47.61904762	0	0	32.14285714	11.30952381	1.81723646	2.621718029
44	0	0	0	0	0	3.341902314	0	0	80.71979434	12.08226221	0.953071687	1.374991797
45	0	0	0	0	0	9.677419355	0	0	25.2688172	64.51612903	1.892081136	2.729696071
46	0.420462509	0	2.873160477	0	0	24.38682551	0	0	30.69376314	37.21093203	2.24413954	3.237608985
47	0	0	4.643962848	0	0	15.17027864	0	0	48.91640867	12.38390093	2.336372147	3.370672511
48	0.316455696	0	4.746835443	0	0	21.51898734	0	0	35.75949367	8.860759494	2.426587905	3.500826337
49	0.546448087	0	24.04371585	0	0	26.2295082	0	0	24.04371585	21.31147541	2.450507829	3.535335492
50	23.68421053	0	0	0	0	13.15789474	0	0	21.05263158	42.10526316	1.489767364	2.149279988
51	0	0	0	0	0	12.5	0	0	41.07142857	42.85714286	1.578729863	2.277625745
52	3.50877193	0	7.01754386	0	0	12.28070175	0	0	5.263157895	70.1754386	1.83737647	2.650773922
53	0	0	66.66666667	0	0	0	0	0	33.33333333	0	0.636514168	0.918295834
54	0	0	0.862068966	0	0	12.06896552	0	0.862068966	20.68965517	57.75862069	2.380486338	3.434315835
55	0.598802395	0	4.191616766	0	0	14.67065868	0	0	18.26347305	47.90419162	2.581674178	3.724568533
56	0	0	2.02020202	0	0	32.32323232	0	0	37.03703704	25.25252525	2.447985506	3.53169655
57	0	0	8.016877637	0	0	8.438818565	0	0	16.03375527	51.89873418	2.443178441	3.524761421
58	0	0	18.69918699	0	0	2.43902439	0	0	1.62601626	69.10569106	1.268151498	1.829555877
59	1.910828025	0	35.66878981	0	0	1.910828025	0	1.910828025	1.27388535	55.41401274	1.636028599	2.360290346
60	17.39130435	0	30.9178744	0	0	14.97584541	0	11.11111111	1.449275362	22.70531401	2.079357886	2.999879311
61	4.545454545	0	50.56818182	0	0	9.659090909	0	0.568181818	10.79545455	22.72727273	1.93284397	2.788504411
62	0.510204082	0	13.7755102	0	0	0.510204082	0	0	22.95918367	28.06122449	1.692708328	2.442061911
63	0	0	3.333333333	0	0	3.333333333	0	0	23.1372549	70	0.868829427	1.253455906
64	0	0	19.67213115	0	0	47.54098361	0	0	4.918032787	26.2295082	1.65953471	2.394202497
65	0	0	1.333333333	0	0	16.66666667	0	1.333333333	14	62	2.224997095	3.209992274
66	0	0	0	0	0	34.60410557	0	0	34.31085044	23.16715543	1.989824527	2.870709977
67	0	0	1.092896175	0	0	27.86885246	0	0	12.84153005	54.3715847	2.222998948	3.207109558

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
68	0	0	1.680672269	0	0	40.33613445	0	0	3.781512605	47.89915966	1.895106964	2.734061419
69	0.325732899	0	1.302931596	0	0	21.49837134	0	0	23.77850163	47.23127036	2.256220366	3.255037934
70	0	0	1.578947368	0	0	13.68421053	0	0	12.63157895	53.15789474	2.671370087	3.853972377
71	0	0	3.03030303	0	0	28.78787879	0	8.333333333	18.18181818	40.15151515	2.404284648	3.468649539
72	0	0	0	0	0	27.6119403	0	0	3.731343284	58.20895522	2.161927355	3.119001874
73	0	0	0	0	0	22.19730942	0	0.224215247	4.260089686	63.90134529	2.110397967	3.044660682
74	0	0	6.86695279	0	0	46.88841202	0	0	37.66094421	6.223175966	1.927508244	2.780806585
75	0	0	0	0	0	30.35714286	0	0.892857143	10.71428571	48.21428571	2.360409554	3.405351159
76	0	0	0	0	0	36.20689655	0	0.574712644	6.32183908	44.54022989	2.093559566	3.020368004
77	0	0	10.26156942	0	0	13.07847082	0	0	30.58350101	36.82092555	2.57402757	3.71353681
78	0	0	10.70234114	0	0	40.80267559	0	0	21.40468227	14.71571906	2.035650909	2.936823472
79	0	0	21.03658537	0	0	23.7804878	0	0	5.487804878	48.47560976	2.428177188	3.503119187
80	0	0	5.357142857	0	0	25.71428571	0	0	19.28571429	49.28571429	2.457021023	3.544732045
81	0	0	6.010928962	0	0	45.35519126	0	0	19.67213115	26.2295082	2.315838102	3.341048145
82	0	0	0.757575758	0	0	31.06060606	0	0	37.5	14.39393939	2.272741745	3.278873244
83	0	0	3.571428571	0	0	13.57142857	0	0	24.28571429	33.57142857	2.39468675	3.454802699
84	7.056798623	0	1.204819277	0	0	11.35972461	0	0	35.11187608	22.89156627	2.155579421	3.109843742
85	1.494565217	0	14.74184783	0	0	39.87771739	0	0	17.86684783	16.98369565	2.668332876	3.849590607
86	1.258581236	0	0	0	0	38.44393593	0	0	29.0617849	11.67048055	2.552510658	3.682494468
87	0.119474313	0	3.823178017	0	0	40.62126643	0	0	19.11589008	20.1911589	2.625698057	3.788081565
88	1.129943503	0	22.59887006	0	0	28.24858757	0	0	7.721280603	33.70998117	2.908315636	4.195812545
89	0.653594771	0	13.5620915	0	0	12.41830065	0	0.490196078	35.29411765	12.58169935	2.233887834	3.2228189
90	1.822079314	0	15.00535906	0	0	11.25401929	0	0.643086817	13.18327974	16.82743837	2.346556761	3.385365803
91	1.247401247	0	32.22453222	0	0	11.22661123	0	0	9.771309771	17.25571726	2.476874602	3.573374706
92	0.213903743	0	30.48128342	0	0	28.77005348	0	3.101604278	14.11764706	11.65775401	2.417561641	3.48780419
93	0.974025974	0	8.603896104	0	0	5.681818182	0	0.487012987	42.53246753	3.571428571	1.652905156	2.384638072
94	5.300581771	0	10.08403361	0	0	38.00904977	0	3.555268261	15.38461538	1.486748546	1.971400697	2.844130009
95	0.432900433	0	51.94805195	0	0	12.12121212	0	1.298701299	20.77922078	7.792207792	2.229031421	3.215812577
96	0.294117647	0	2.647058824	0	0	43.52941176	0	0	28.52941176	19.70588235	2.104465365	3.036101746
97	0	0	8.266129032	0	0	37.7016129	0	0	31.85483871	20.16129032	1.898118981	2.738406841
98	0.281690141	0	1.690140845	0	0	50.98591549	0	0	17.88732394	26.05633803	1.625900718	2.345678903
99	0	0	7.226107226	0	0	61.65501166	0	0	15.03496503	8.508158508	2.386228018	3.442599328
100	0	0	5.87529976	0	0	15.70743405	0	0.119904077	64.50839329	11.63069544	1.505491699	2.171965408
101	0	0	6.280193237	0	0	53.62318841	0	0	15.94202899	15.4589372	1.976385893	2.851322126
102	0.259965338	0	0.173310225	0	0	10.31195841	0	0.346620451	75.82322357	10.91854419	1.07937202	1.557204661
103	0	0	0	0	0	22.70861833	0	0.136798906	49.38440492	22.70861833	1.578298783	2.277003827
104	0	0	0	0	0	13.5193133	0	0.214592275	67.59656652	15.66523605	1.647781408	2.377246066
105	0	0	51.75879397	0	0	5.527638191	0	0	16.08040201	24.12060302	1.650966007	2.381840472
106	5.633802817	0	6.438631791	0	0	7.042253521	0	2.012072435	35.01006036	24.5472837	2.326616418	3.356597968
107	2.215189873	0	8.386075949	0	0	17.08860759	0	0	23.57594937	24.05063291	2.699785863	3.894967676
108	0.734214391	0	20.70484581	0	0	12.33480176	0	0	22.1732746	25.55066079	2.824277565	4.074571238
109	0.133067199	0	14.50432468	0	0	22.28875582	0	1.663339987	44.04524285	13.57285429	2.273866404	3.280495784
110	0.460122699	0	7.515337423	0	0	33.89570552	0	1.226993865	34.50920245	0.920245399	1.86481856	2.690364488
111	1.388888889	0	8.101851852	0	0	18.75	0	1.967592593	33.91203704	6.134259259	2.274088811	3.28081665
112	1.675977654	0	2.234636872	0	0	3.910614525	0	7.262569832	78.2122905	0	1.642807161	2.370069744

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
113	3.838951311	0	6.554307116	0	0	38.01498127	0	0.187265918	21.91011236	19.85018727	2.360032848	3.404807686
114	6.285310734	0	0.423728814	0	0	1.34180791	0	0	77.54237288	12.07627119	1.454904011	2.098982801
115	9.409888357	0	1.913875598	0	0	26.47527911	0	0.318979266	29.02711324	24.56140351	2.683838715	3.871960804
116	1.136363636	0	10.37878788	0	0	22.5	0	7.58 -02	30.37878788	13.71212121	2.310518765	3.333373964
117	4.96031746	0	11.9047619	0	0	20.83333333	0	0.992063492	14.08730159	36.11111111	2.956142437	4.264812035
118	0	0	42.85714286	0	0	0	0	2.380952381	47.61904762	2.380952381	1.640111354	2.366180517
119	0	0	10.69042316	0	0	32.96213808	0	0	9.576837416	46.10244989	1.501902247	2.166786924
120	0	0	29.6875	0	0	32.8125	0	0	17.1875	0	1.813312418	2.616056834
121	0	0	1.754385965	0	0	4.824561404	0	0	15.35087719	77.19298246	1.255327053	1.811054114
122	0	0	7.112970711	0	0	28.87029289	0	0.418410042	2.510460251	60.25104603	1.929195206	2.783240357
123	0	0	6.046195652	0	0	40.82880435	0	0	21.58061594	20.51630435	2.497854601	3.603642446
124	0.460829493	0	1.382488479	0	0	9.216589862	0	0	30.87557604	56.22119816	2.097660685	3.026284668
125	0	0	3.968253968	0	0	6.349206349	0	0	20.63492063	63.49206349	2.378643126	3.431656641
126	2.763819095	0	0.753768844	0	0	11.05527638	0	4.020100503	19.09547739	59.04522613	2.237263315	3.227688689
127	0.515463918	0	2.577319588	0	0	7.216494845	0	0	34.53608247	52.57731959	1.819683709	2.625248663
128	8.522727273	0	6.818181818	0	0	34.09090909	0	0	13.06818182	14.77272727	2.258366382	3.25813398
129	1.21703854	0	0.202839757	0	0	49.0872211	0	0	17.03853955	28.60040568	1.784348781	2.574271138
130	3.94265233	0	0.716845878	0	0	56.63082437	0	0	7.885304659	26.88172043	1.77494219	2.560700296
131	4.771784232	0	44.19087137	0	0	4.979253112	0	0	8.506224066	37.55186722	1.367997813	1.97360366
132	1.224489796	0	15.51020408	0	0	11.42857143	0	0	28.7755102	41.63265306	2.540153316	3.664666592
133	4.038004751	0	14.25178147	0	0	5.700712589	0	0	22.09026128	45.60570071	2.611823792	3.768065232
134	0	0	12.04013378	0	0	2.675585284	0	0	32.10702341	44.81605351	2.236247348	3.22622296
135	2.743902439	0	13.1097561	0	0	17.68292683	0	0	8.536585366	34.75609756	2.645591579	3.816781851
136	0	0	23.52941176	0	0	29.73856209	0	0	26.14379085	20.26143791	2.540519171	3.665194409
137	0.449101796	0	3.892215569	0	0	12.4251497	0	0	30.83832335	46.55688623	2.519302739	3.634585568
138	0	0	3.282828283	0	0	19.19191919	0	0.252525253	20.95959596	54.54545455	2.080084747	3.00092795
139	0.279329609	0	6.424581006	0	0	27.09497207	0	0	20.67039106	39.10614525	2.699629257	3.894741741
140	0	0	6.002554278	0	0	40.61302682	0	0	21.71136654	20.30651341	2.517473624	3.631946713
141	0	0	0	0	0	53.80116959	0	0	2.339181287	37.42690058	2.027980025	2.925756725
142	0	0	0	0	0	3.846153846	0	0	1.282051282	56.41025641	2.020093548	2.914378944
143	0	0	0.338409475	0	0	89.00169205	0	0	3.72250423	6.598984772	1.159944245	1.67344581
144	0	0	0	0	0	0	0	0	77.97356828	22.02643172	1.091565208	1.574795713
145	2.597402597	0	7.359307359	0	0	12.12121212	0	0	22.94372294	54.97835498	1.955209452	2.820770981
146	3.931203931	0	30.71253071	0	0	1.71990172	0	0	3.43980344	60.1965602	1.26510082	1.825154679
147	0	0	5.185185185	0	0	4.074074074	0	0	24.07407407	66.66666667	1.766796165	2.548948066
148	10.52631579	0	5.263157895	0	0	15.78947368	0	0	0	47.36842105	1.840340796	2.655050539
149	0	0	0	0	0	69.23076923	0	0.130378096	12.64667536	5.867014342	1.352449818	1.951172646
150	0	0	4.954954955	0	0	30.63063063	0	0	21.62162162	40.99099099	2.115275604	3.051697625
151	0.312989045	0	4.851330203	0	0	8.607198748	0	0	12.98904538	68.85758998	2.121816887	3.061134701
152	0	0	6.451612903	0	0	13.85630499	0	0	27.71260997	39.36950147	2.525415301	3.64340413
153	1.046337818	0	37.36920777	0	0	9.715994021	0	0	30.19431988	21.52466368	1.779237233	2.566896733
154	0	0	2.269861286	0	0	17.90668348	0	6.31 -02	31.39974779	12.67339218	2.063216808	2.976592657
155	4.852071006	0	20.47337278	0	0	24.9704142	0	4.615384615	12.5443787	23.78698225	2.729988666	3.93854111
156	3.640982218	0	20.15241321	0	0	16.17273497	0	3.132938188	14.73327688	28.02709568	2.768434175	3.994006255
157	5.520702635	0	18.31869511	0	0	28.23086575	0	1.505646173	8.281053952	18.94604768	2.642871966	3.812858279

Appendix G: etric alues of New exico Stream Samples

BenSampID	ligoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
158	0	0	26.66666667	0	0	0	0	0	0	73.33333333	1.373774088	1.981937064
159	0.444444444	0	27.55555556	0	0	55.11111111	0	0	2.222222222	13.33333333	1.948076924	2.810480917
160	0.64516129	0	20.64516129	0	0	31.61290323	0	0	4.193548387	38.06451613	2.46605159	3.557760399
161	0	0	38.06818182	0	0	24.43181818	0	0	4.545454545	31.81818182	1.994143834	2.87694142
162	0	0	17.03703704	0	0	4.444444444	0	1.481481481	2.962962963	71.85185185	1.653935863	2.386125067
163	1.733232856	0	3.767897513	0	0	26.90278824	0	3.240391861	17.18161266	36.09645818	2.544018521	3.670242905
164	0.742880726	0	2.888980603	0	0	59.2653735	0	0.577796121	11.67973586	17.33388362	2.202456145	3.177472559
165	20.7253886	0	1.03626943	0	0	19.43005181	0	0	10.10362694	6.476683938	2.043793495	2.948570739
166	2.819548872	0	11.46616541	0	0	28.19548872	0	0.37593985	9.398496241	28.94736842	2.642054416	3.811678803
167	19.8630137	0	6.849315068	0	0	33.33333333	0	0.684931507	8.675799087	13.69863014	2.700112344	3.895438689
168	2.012072435	0	7.042253521	0	0	13.27967807	0	0	15.2917505	25.55331992	2.316911156	3.342596235
169	4.979253112	0	30.49792531	0	0	23.4439834	0	0	5.186721992	29.87551867	2.72791423	3.935548332
170	0.214592275	0	12.76824034	0	0	23.17596567	0	0.107296137	27.89699571	6.223175966	2.236510952	3.22660326
171	0.412654746	0	12.65474553	0	0	3.163686382	0	0	73.31499312	9.215955983	1.433277085	2.067781742
172	3.141361257	0	27.7486911	0	0	18.32460733	0	0	5.759162304	43.97905759	2.562370547	3.696719281
173	0.829875519	0	14.93775934	0	0	19.50207469	0	0	2.904564315	55.18672199	2.320763646	3.348154203
174	0	0	7.534246575	0	0	0.684931507	0	0.684931507	13.01369863	77.39726027	0.855730829	1.234558624
175	0	0	0	0	0	27.02702703	0	0	39.63963964	29.72972973	1.425211101	2.056144988
176	0	0	0.284900285	0	0	5.128205128	0	0	34.75783476	59.82905983	1.081899627	1.560851227
177	0.495049505	0	0.99009901	0	0	22.52475248	0	0	8.663366337	66.58415842	1.397522866	2.016199308
178	6.157635468	0	3.448275862	0	0	28.32512315	0	0	22.90640394	33.99014778	1.993525568	2.876049452
179	3.846153846	0	10	0	0	11.15384615	0	0	6.153846154	49.23076923	2.637593513	3.805243081
180	4.684317719	0	2.851323829	0	0	15.68228106	0	0	17.31160896	53.97148676	1.924778761	2.776868774
183	0.863930886	0	9.071274298	0	0	12.0950324	0	0	19.2224622	34.3412527	2.659591748	3.836979826
184	3.353658537	0	14.63414634	0	0	30.48780488	0	0	15.85365854	25	2.754337479	3.973669022
185	0.125628141	0	2.010050251	0	0	5.40201005	0	0	91.33165829	1.130653266	0.62556148	0.902494445
186	0	0	0.874635569	0	0	14.35860058	0	1.822157434	49.85422741	12.90087464	2.041190585	2.944815535
187	0	0	3.463203463	0	0	19.26406926	0	0	7.142857143	37.44588745	2.209913554	3.188231325
188	0	0	7.142857143	0	0	38.0952381	0	0	4.761904762	22.10884354	1.890507235	2.727425413
189	1.086956522	0	3.260869565	0	0	34.7826087	0	0	5.434782609	44.56521739	1.807963394	2.608339822
190	0	0	2	0	0	11.5	0	0	21.5	64.5	2.101135439	3.031297678
191	0	0	7.317073171	0	0	8.943089431	0	0	13.27913279	66.39566396	2.259374469	3.259588342
192	0	0	22.96296296	0	0	28.33333333	0	0	9.814814815	35	2.393005184	3.452376712
193	0	0	3.617571059	0	0	20.93023256	0	0	29.19896641	43.66925065	2.370590457	3.420039097
194	0	0	2.23325062	0	0	10.91811414	0	0	27.79156328	54.34243176	2.216133811	3.197205259
195	0.699912511	0	2.537182852	0	0	37.70778653	0	0	14.61067367	35.08311461	2.547961362	3.675931222
196	1.795142555	0	2.639915523	0	0	55.64941922	0	0	4.64625132	31.25659979	2.522781308	3.639604082
197	0.354609929	0	6.737588652	0	0	49.64539007	0	0	8.156028369	32.62411348	2.485442422	3.585735456
198	2	0	2.666666667	0	0	11.33333333	0	0	16.66666667	66.66666667	1.625639632	2.345302236
199	0	0	3.65448505	0	0	28.73754153	0	0	43.35548173	20.09966777	1.740631633	2.511200625
200	0.129533679	0	6.476683938	0	0	24.35233161	0	0.129533679	36.26943005	30.82901554	2.452430597	3.53810946
201	0	0	4.615384615	0	0	29.67032967	0	0	21.0989011	34.06593407	2.268771632	3.273145582
202	0	0	6.310679612	0	0	47.57281553	0	0.485436893	8.252427184	33.98058252	1.829460511	2.639353607
203	0	0	1.325757576	0	0	79.54545455	0	0	8.901515152	9.28030303	1.429461468	2.062276971
204	1.081081081	0	0.540540541	0	0	71.89189189	0	0	12.43243243	10.27027027	1.753511502	2.529782348

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
205	0	0	1.781170483	0	0	75.57251908	0	0	11.95928753	9.923664122	1.366316691	1.971178314
206	0.129701686	0	2.204928664	0	0	11.93255512	0	0	19.71465629	62.6459144	2.038163953	2.940449028
207	0	0	1.597444089	0	0	11.02236422	0	0	19.16932907	58.30670927	2.20285726	3.178051245
208	0	0	0.502512563	0	0	0	0	0	96.73366834	2.261306533	0.323211099	0.466295049
209	0	0	1.131071191	0	0	17.23220226	0	0.598802395	30.13972056	5.854956753	2.131329919	3.074859105
210	0	0	5.898876404	0	0	71.91011236	0	0	7.303370787	13.48314607	1.586260616	2.288490325
211	0.276243094	0	4.972375691	0	0	49.44751381	0	0.552486188	28.17679558	16.02209945	2.152891877	3.105966434
212	0.900900901	0	0	0	0	40.54054054	0	0	18.91891892	37.83783784	1.904694149	2.747892803
213	25.1497006	0	0	0	0	60.47904192	0	4.191616766	1.796407186	1.19760479	1.535919471	2.215863404
214	0	0	1.720430108	0	0	27.74193548	0	0	26.23655914	28.38709677	2.234571403	3.223805081
215	0	0	0.503355705	0	0	46.81208054	0	5.033557047	17.28187919	29.86577181	1.563967593	2.256328291
216	2.173913043	0	0	0	0	26.52173913	0	0	34.34782609	3.47826087	1.911878329	2.758257384
217	0	0	0.145137881	0	0	45.42815675	0	0.290275762	4.934687954	34.25253991	1.656311928	2.389553004
218	1.290322581	0	0	0	0	37.20430108	0	6.666666667	8.817204301	34.83870968	1.916230622	2.764536415
219	3.909465021	0	8.641975309	0	0	24.48559671	0	0.823045267	22.22222222	26.13168724	2.834734047	4.089656752
220	11.68831169	0	1.298701299	0	0	19.91341991	0	1.298701299	27.70562771	10.82251082	2.512669875	3.625016369
221	4.029850746	0	9.253731343	0	0	22.8358209	0	0.149253731	18.65671642	25.2238806	2.525525197	3.643562678
222	0.886262925	0	0.443131462	0	0	65.58345643	0	7.39 -02	12.9985229	6.720827179	2.418296254	3.488864013
223	1.060070671	0	4.946996466	0	0	31.91990577	0	0	16.37220259	20.02355713	2.292748803	3.307737329
224	0.604229607	0	27.49244713	0	0	41.08761329	0	0	8.459214502	19.93957704	2.617085502	3.775656276
225	0.67114094	0	47.65100671	0	0	24.83221477	0	0	13.42281879	11.40939597	2.506415282	3.615992897
226	0	0	21.87919463	0	0	39.73154362	0	0	26.17449664	5.771812081	2.356193698	3.399268963
227	0	0	19.29824561	0	0	28.80116959	0	0.14619883	15.93567251	14.47368421	2.84183223	4.099897265
228	2.145045965	0	4.085801839	0	0	30.64351379	0	5.515832482	6.537282942	38.50868233	2.350813034	3.391506307
229	9.500805153	0	1.610305958	0	0	17.23027375	0	2.898550725	20.12882448	43.80032206	2.372517478	3.4228192
230	0	0	25.52083333	0	0	27.08333333	0	0	13.54166667	30.03472222	2.330473974	3.362163245
231	0	0	12.98701299	0	0	40.51948052	0	0	10.64935065	35.58441558	2.715864186	3.918163793
232	0.674157303	0	11.91011236	0	0	46.06741573	0	0.224719101	13.25842697	21.12359551	2.945472689	4.249418841
233	1.311953353	0	20.99125364	0	0	44.4606414	0	0.145772595	6.268221574	16.03498542	2.879501253	4.154242178
234	0	0	0	0	0	12.38938053	0	0	69.02654867	13.27433628	1.374628925	1.983170334
235	0	0	4.166666667	0	0	8.333333333	0	0	29.16666667	58.33333333	1.456290925	2.100983695
236	0	0	3.440860215	0	0	26.23655914	0	0	36.55913978	31.39784946	2.321414646	3.349093398
237	0	0	14.50980392	0	0	40.52287582	0	0	5.751633987	32.94117647	2.340101675	3.376053082
238	0.144508671	0	25.14450867	0	0	24.42196532	0	0	17.6300578	29.33526012	2.844677641	4.104002326
239	0.729927007	0	3.163017032	0	0	0	0	0	70.55961071	23.84428224	1.425787988	2.056977259
240	12.13592233	0	7.281553398	0	0	11.40776699	0	0	15.53398058	32.2815534	2.832854498	4.086945136
241	5.04587156	0	5.275229358	0	0	14.90825688	0	0.917431193	12.3853211	49.31192661	2.246081401	3.240410499
242	7.80669145	0	6.691449814	0	0	20.26022305	0	0	6.691449814	24.9070632	2.290996028	3.305208608
243	8.955223881	0	7.462686567	0	0	20.14925373	0	0	22.01492537	29.47761194	2.833048815	4.087225476
244	0.334448161	0	16.49944259	0	0	25.9754738	0	0	13.8238573	36.67781494	2.428892855	3.504151676
245	0.334821429	0	16.40625	0	0	26.00446429	0	0	13.83928571	36.71875	2.441804093	3.522778656
246	0.821917808	0	1.369863014	0	0	21.09589041	0	0	30.1369863	26.30136986	2.330145217	3.361688949
247	0	0	3.064066852	0	0	1.671309192	0	0	80.77994429	14.48467967	0.949470525	1.369796418
248	0	0	1.042442293	0	0	22.48696947	0	5.063291139	48.7714073	4.616530156	2.035104489	2.936035154
249	0.362318841	0	11.95652174	0	0	12.68115942	0	0	38.4057971	34.23913043	2.726174675	3.933038684

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
250	5.617977528	0	2.808988764	0	0	13.48314607	0	0	24.71910112	51.12359551	2.374449718	3.425606833
252	1.393728223	0	0.696864111	0	0	34.49477352	0	0.696864111	34.84320557	26.13240418	1.973846578	2.84765867
253	1.312335958	0	5.774278215	0	0	31.49606299	0	0	15.7480315	39.63254593	2.147831862	3.098666377
254	0.412654746	0	0.962861073	0	0	13.06740028	0	0.687757909	64.64924347	11.69188446	2.301209282	3.319943219
255	14.24731183	0	0	0	0	44.35483871	0	3.494623656	22.84946237	11.82795699	2.114519827	3.050607268
256	31.67938931	0	0	0	0	0.508905852	0	0.636132316	65.20356234	0.318066158	1.306234185	1.884497581
257	10.37037037	0	0	0	0	30.37037037	0	1.851851852	14.44444444	38.14814815	2.08470405	3.007592194
258	0	0	0	0	0	29.31596091	0	0.325732899	26.38436482	34.2019544	2.277634104	3.285931426
259	0.23255814	0	16.27906977	0	0	24.88372093	0	0	14.88372093	38.37209302	2.203317271	3.1787149
260	3.25732899	0	5.211726384	0	0	13.68078176	0	0	26.38436482	41.36807818	2.520686648	3.636582127
261	3.215434084	0	5.466237942	0	0	11.5755627	0	0	32.15434084	32.47588424	2.70260832	3.899039621
262	0.427350427	0	5.982905983	0	0	10.04273504	0	0	43.37606838	38.88888889	2.370503334	3.419913404
263	2.150537634	0	8.064516129	0	0	34.40860215	0	0	13.44086022	37.09677419	2.697890463	3.892233192
264	0	0	3.592814371	0	0	21.55688623	0	0	10.77844311	59.28143713	2.160814352	3.11739615
265	0.295857988	0	6.213017751	0	0	27.5147929	0	0.295857988	29.28994083	24.55621302	2.095397447	3.023019506
266	0	0	0	0	0	10.34482759	0	6.896551724	50.86206897	24.13793103	1.658975572	2.393395831
267	0.869565217	0	0	0	0	7.826086957	0	0	26.95652174	27.82608696	2.312009358	3.335524436
268	5.720338983	0	0	0	0	36.22881356	0	5.084745763	1.694915254	28.1779661	2.320252154	3.347416276
269	0	0	0	0	0	17.89473684	0	6.315789474	10.52631579	31.57894737	2.414289166	3.483083007
270	1.304347826	0	0	0	0	19.13043478	0	15.2173913	12.60869565	42.60869565	2.609979956	3.765405139
271	0	0	0	0	0	7.251908397	0	6.488549618	18.70229008	59.16030534	2.289156903	3.302555312
272	15.11627907	0	0	0	0	0	0	1.162790698	41.86046512	0	1.401529367	2.021979467
273	0	0	0	0	0	23.07692308	0	0	36.92307692	12.30769231	1.989343713	2.870016309
274	0	0	14.11290323	0	0	5.846774194	0	2.620967742	6.048387097	25	2.048079178	2.954753673
275	0.186567164	0	30.41044776	0	0	21.45522388	0	0	14.55223881	27.23880597	2.31220436	3.335805764
276	3.232533889	0	23.25338895	0	0	9.593326382	0	3.753910323	19.49947862	25.86027112	2.767469926	3.992615138
277	3.86869871	0	5.861664713	0	0	11.95779601	0	2.813599062	18.05392732	31.77022274	2.681159214	3.868095102
278	0	0	6.779661017	0	0	33.89830508	0	0	5.649717514	40.6779661	1.870646096	2.698771846
279	0	0	0	0	0	52.7972028	0	3.846153846	10.13986014	12.58741259	2.47577804	3.5717927
280	0	0	0	0	0	24.53703704	0	2.314814815	4.62962963	28.24074074	2.43656077	3.51521414
281	0	0	0	0	0	37.07317073	0	0	4.87804878	35.6097561	2.290111185	3.30393205
282	0.724637681	0	0	0	0	7.246376812	0	1.811594203	52.17391304	35.86956522	1.630831482	2.352792491
283	0	0	0	0	0	2.684563758	0	0	89.26174497	3.355704698	0.891668166	1.286405241
284	0	0	6.172839506	0	0	35.18518519	0	1.851851852	1.851851852	53.08641975	1.927364635	2.7805994
285	0.158227848	0	5.379746835	0	0	36.23417722	0	0.158227848	12.8164557	10.75949367	2.155135957	3.109203957
286	1.351351351	0	6.756756757	0	0	8.108108108	0	0	62.16216216	18.91891892	1.493139495	2.154144945
287	19.6969697	0	6.060606061	0	0	5.303030303	0	0	60.60606061	3.787878788	1.497419548	2.160319756
288	0	0	6.666666667	0	0	68.20512821	0	0.512820513	3.076923077	19.48717949	2.020919294	2.915570243
289	1.652892562	0	42.97520661	0	0	24.79338843	0	0	14.87603306	13.2231405	2.433838992	3.511287444
290	0.412654746	0	16.78129298	0	0	37.82668501	0	0.137551582	30.26134801	8.803301238	2.383491832	3.438651846
291	0.506756757	0	11.48648649	0	0	38.68243243	0	0	27.19594595	15.03378378	2.877736134	4.151695649
292	7.536764706	0	12.31617647	0	0	34.55882353	0	0.551470588	18.38235294	17.09558824	2.897163328	4.179723166
293	0	0	8.647450111	0	0	47.00665188	0	0	33.92461197	5.543237251	1.987829844	2.867832258
294	0	0	16.05136437	0	0	28.08988764	0	0.561797753	30.73836276	20.62600321	2.864499339	4.13259899
295	1.188903567	0	2.906208719	0	0	42.27212682	0	2.50990753	15.45574637	29.06208719	2.385004003	3.440833448

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
296	1.090512541	0	4.870956016	0	0	63.46782988	0	0.690657943	8.905852417	15.81243184	1.844226349	2.660656209
297	0	0	6.532663317	0	0	45.05862647	0	0	3.685092127	37.35343384	2.007377401	2.896033421
298	0	0	26.69172932	0	0	24.43609023	0	0	16.16541353	32.33082707	2.504333083	3.61298892
299	0	0	36.36363636	0	0	24.34017595	0	0	12.31671554	24.04692082	2.600108003	3.751162921
300	0	0	9.065155807	0	0	35.97733711	0	0	13.03116147	40.79320113	2.708399402	3.907394385
301	1.020408163	0	27.55102041	0	0	12.75510204	0	0	7.653061224	44.89795918	2.581868986	3.724849582
302	0.99009901	0	1.98019802	0	0	20.79207921	0	0	15.84158416	56.43564356	1.662346749	2.398259411
303	0	0	1.724137931	0	0	20.68965517	0	0	22.4137931	41.37931034	2.139628976	3.086832113
304	0.389105058	0	1.556420233	0	0	36.57587549	0	0	21.40077821	7.782101167	2.142511194	3.090990274
305	0	0	15.55555556	0	0	58.33333333	0	0	4.444444444	19.44444444	2.428756066	3.503954332
306	0	0	15.68627451	0	0	19.60784314	0	0	3.921568627	52.94117647	2.462467718	3.552589965
307	16.57458564	0	6.445672192	0	0	34.80662983	0	0	25.78268877	15.83793738	2.477905554	3.574862054
308	0	0	0	0	0	14.54918033	0	0.204918033	4.713114754	13.7295082	1.837042278	2.650291784
309	6.164383562	0	9.589041096	0	0	17.80821918	0	0	4.794520548	55.47945205	2.494189287	3.598354515
310	0.788954635	0	0.986193294	0	0	33.53057199	0	0.986193294	38.65877712	17.75147929	2.099443576	3.028856836
311	2.898550725	0	20.28985507	0	0	24.63768116	0	0	13.04347826	34.7826087	2.46584141	3.557457173
312	0.430570506	0	1.184068891	0	0	9.79547901	0	0	4.843918192	83.63832078	1.399121864	2.018506174
313	1.298701299	0	1.515151515	0	0	12.12121212	0	0	2.597402597	82.25108225	1.442468068	2.081041528
314	2.480620155	0	0	0	0	13.02325581	0	0	46.20155039	36.66666667	1.779774043	2.567671185
315	0.805369128	0	0.268456376	0	0	29.66442953	0	0	25.23489933	43.48993289	1.726569269	2.490912922
316	0.504625736	0	0	0	0	72.91841884	0	0.756938604	4.205214466	17.40958789	1.545643424	2.229892103
317	5.797101449	0	6.763285024	0	0	23.67149758	0	0	18.84057971	43.96135266	2.400452187	3.463120465
318	8.256880734	0	7.339449541	0	0	24.7706422	0	0	19.26605505	39.44954128	2.39894112	3.460940457
319	2.345511953	0	0	0	0	8.344609833	0	0	61.07352278	27.60487145	1.534121194	2.213269039
320	17.49696233	0	0	0	0	4.2527339	0	0	61.36087485	16.2818955	1.636217536	2.360562925
321	0	0	0	0	0	0	0	0	4.761904762	0	0.832407574	1.20091028
322	0	0	0	0	0	0	0	0	21.21212121	0	1.024961528	1.478706914
323	0	0	0	0	0	46.66666667	0	4.444444444	15.55555556	11.11111111	1.752511865	2.528340177
324	1.652892562	0	0	0	0	20.66115702	0	5.785123967	41.32231405	13.2231405	2.106006389	3.038324973
325	1.612903226	0	0	0	0	54.83870968	0	12.90322581	3.225806452	11.29032258	1.571619492	2.267367648
326	0	0	0	0	0	67.04980843	0	11.11111111	5.363984674	4.980842912	1.250951123	1.804740982
327	8.284023669	0	0	0	0	15.38461538	0	0	6.50887574	63.90532544	2.33627298	3.370529442
328	0.917431193	0	0	0	0	0.917431193	0	0.917431193	96.33027523	0	0.775426573	1.118704071
329	9.69 -02	0	1.937984496	0	0	78.68217054	0	9.69 -02	2.131782946	12.8875969	1.222788478	1.764110873
330	0.278486888	0	3.040148526	0	0	12.94964029	0	4.64 -02	1.206776514	82.43211882	1.421876619	2.051334347
331	0.169491525	0	5.084745763	0	0	42.54237288	0	0	16.27118644	22.54237288	2.202291209	3.177234606
332	0.115874855	0	13.67323291	0	0	28.04171495	0	0	24.21784473	8.690614137	2.639802414	3.808429852
333	1.945525292	0	2.723735409	0	0	49.41634241	0	0	22.17898833	20.62256809	1.67769447	2.420401492
334	0.196078431	0	1.176470588	0	0	81.50326797	0	0.130718954	4.31372549	10.8496732	1.836104707	2.648939155
335	0	0	8.121827411	0	0	14.72081218	0	5.076142132	12.18274112	10.15228426	1.823308195	2.630477691
336	0.714285714	0	0.714285714	0	0	3.571428571	0	0.714285714	84.28571429	10	1.276121152	1.841053658
337	0	0	6.818181818	0	0	10.22727273	0	0	34.65909091	48.29545455	1.591062105	2.295417409
338	0.189035917	0	0	0	0	3.780718336	0	9.45 -02	45.36862004	49.90548204	1.289690288	1.860629783
339	4.504504505	0	0.15015015	0	0	17.56756757	0	0	34.38438438	42.64264264	1.823025222	2.630069447
340	16.27296588	0	1.181102362	0	0	1.049868766	0	0.524934383	70.73490814	9.973753281	1.722700964	2.485332137

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
341	18.7150838	0	1.117318436	0	0	2.51396648	0	0	62.01117318	15.36312849	1.720434624	2.482062501
342	1.094091904	0	0.437636761	0	0	1.094091904	0	0	86.65207877	10.72210066	1.18533152	1.710071906
343	1.253132832	0	1.754385965	0	0	9.022556391	0	0	42.10526316	45.61403509	1.779532889	2.567323275
344	0.124069479	0	0	0	0	16.37717122	0	0.124069479	29.15632754	51.11662531	1.582677584	2.283321102
345	0.31152648	0	25.54517134	0	0	27.10280374	0	0	18.38006231	27.7258567	2.76484138	3.988822948
346	0	0	11.65553081	0	0	33.92724573	0	0.816629547	22.12323682	20.48997773	2.465445953	3.556886649
347	0.613496933	0	3.067484663	0	0	43.14928425	0	0.204498978	8.1799591	34.15132924	2.445491385	3.528098294
348	0.118063754	0	7.556080283	0	0	35.06493506	0	0	23.96694215	31.64108619	2.706797194	3.905082889
349	0.702576112	0	16.62763466	0	0	23.65339578	0	0	8.430913349	49.18032787	2.770510606	3.997001911
350	0	0	25.56732224	0	0	20.72617247	0	0	34.49319213	18.75945537	2.424165954	3.497332201
351	0	0	14.76377953	0	0	3.937007874	0	0	68.30708661	12.99212598	1.385988693	1.999559014
352	0	0	29.33333333	0	0	11.46666667	0	0	10.13333333	48.53333333	2.424744721	3.498167184
353	0	0	7.171314741	0	0	33.46613546	0	0	33.46613546	22.70916335	2.090555049	3.016033401
354	0	0	5.319148936	0	0	48.93617021	0	0	9.574468085	36.17021277	1.648937354	2.378913744
355	0	0	0	0	0	83.72093023	0	0	3.488372093	11.62790698	0.803262439	1.158862738
356	0	0	1.423487544	0	0	67.97153025	0	0	7.117437722	23.48754448	1.631210118	2.353338748
357	0	0	8.75	0	0	37.08333333	0	0	4.583333333	43.54166667	2.368828394	3.417496977
358	0	0	4.435483871	0	0	43.9516129	0	0	4.838709677	45.56451613	1.851177328	2.670684351
359	0	0	4.299065421	0	0	43.73831776	0	0	4.112149533	43.17757009	2.261786251	3.263067809
360	0	0	4.320987654	0	0	47.83950617	0	0	4.62962963	39.81481481	2.155178554	3.109265412
361	0	0	7.111111111	0	0	41.11111111	0	0	6.444444444	44	2.27495116	3.282060757
362	0.259067358	0	15.80310881	0	0	26.42487047	0	0	37.8238342	16.83937824	2.448976908	3.53312684
363	0.643776824	0	8.369098712	0	0	30.68669528	0	0	21.88841202	36.05150215	2.111872429	3.04678788
364	0.550964187	0	9.641873278	0	0	12.39669421	0	0	26.44628099	50.41322314	2.067600445	2.982916909
365	0	0	5.205479452	0	0	28.21917808	0	0	53.88127854	8.858447489	1.70082938	2.453778112
366	0	0	0	0	0	40.69264069	0	0	5.627705628	52.38095238	2.075382798	2.99414447
367	0	0	0.465116279	0	0	11.1627907	0	0	31.1627907	52.55813953	2.052614281	2.961296444
368	0	0	0	0	0	57.54716981	0	0	14.1509434	27.35849057	2.053172537	2.962101837
369	0.172018349	0	0.114678899	0	0	5.733944954	0	5.73 -02	16.91513761	58.08486239	1.661455853	2.396974119
370	6.896551724	0	0	0	0	18.22660099	0	0.492610837	7.389162562	62.56157635	2.058194916	2.969347598
371	0	0	0	0	0	5.272727273	0	0	7.636363636	81.63636364	2.124003796	3.064289744
372	0.242718447	0	0	0	0	2.265372168	0	2.83171521	51.05177994	42.79935275	1.729517447	2.495166244
373	0.920245399	0	0.920245399	0	0	15.64417178	0	0	12.26993865	65.03067485	2.232284469	3.220505733
374	0	0	0	0	0	33.54368932	0	14.10194175	50.77669903	1.140776699	1.585216933	2.286984608
375	0	0	4.356636272	0	0	11.34751773	0	0	5.268490375	25.93718338	1.852345907	2.672370254
376	0	0	0.471698113	0	0	20.28301887	0	0	45.28301887	25.47169811	1.665354966	2.402599351
377	0	0	0	0	0	5.607476636	0	0	33.17757009	46.26168224	2.173761125	3.136074395
378	0	0	1.915708812	0	0	13.40996169	0	0	42.52873563	22.22222222	2.181938757	3.147872224
380	0.613496933	0	0	0	0	7.36196319	0	0	19.01840491	68.09815951	1.612158718	2.325853387
381	0.660066007	0	0	0	0	26.40264026	0	4.785478548	45.04950495	13.20132013	1.824961021	2.632862215
383	0	0	0	0	0	21.95121951	0	0.609756098	28.65853659	32.31707317	2.158114187	3.113500635
384	0	0	0	0	0	46.62162162	0	0.675675676	27.47747748	13.96396396	2.184119183	3.151017914
385	0	0	0	0	0	53.76344086	0	0.358422939	11.82795699	24.01433692	1.650913598	2.38176486
386	0	0	3.174603175	0	0	4.761904762	0	0	65.07936508	26.98412698	1.472320095	2.124108899
387	0	0	3.614457831	0	0	34.93975904	0	0	18.07228916	39.75903614	1.863264302	2.688122169

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
388	0	0	0	0	0	2.255639098	0	0	12.03007519	85.71428571	0.649161265	0.936541738
389	0	0	0	0	0	0	0	0	64.54545455	4.545454545	1.424079366	2.054512239
390	0	0	0	0	0	18.4375	0	17.5	20.9375	33.4375	2.131925636	3.075718542
391	1.219512195	0	0.406504065	0	0	5.284552846	0	0	42.27642276	46.74796748	1.788323192	2.580005
392	0	0	0	0	0	0	0	0	72.91666667	6.25	1.251004646	1.804818199
393	0.164744646	0	9.884678748	0	0	0	0	0	65.89785832	17.6276771	1.313550205	1.895052367
394	0.25	0	60	0	0	0.75	0	0	4.125	32	1.531724117	2.209810788
396	5.614973262	0	0	0	0	1.336898396	0	0	1.203208556	88.23529412	0.529316242	0.763641917
397	0.421940928	0	0.253164557	0	0	25.907173	0	0	52.48945148	11.56118143	1.770673116	2.554541323
398	0.231213873	0	3.23699422	0	0	37.34104046	0	0	10.98265896	21.96531792	2.306371631	3.327390915
399	0	0	4.44191344	0	0	29.38496583	0	0	5.011389522	61.16173121	1.199788331	1.730928675
400	0	0	3.344481605	0	0	30.60200669	0	0	24.24749164	30.93645485	2.098937495	3.028126715
401	0.346020761	0	13.84083045	0	0	11.76470588	0	0.692041522	8.996539792	59.8615917	1.939299839	2.797818261
402	0.168350168	0	5.218855219	0	0	24.24242424	0	0.168350168	26.26262626	41.07744108	1.954214806	2.819336009
403	1.287553648	0	0.858369099	0	0	26.28755365	0	0.643776824	23.81974249	46.13733906	1.93225977	2.787661588
404	0.641025641	0	2.403846154	0	0	25.48076923	0	0.16025641	11.05769231	50.32051282	1.898167193	2.738476396
405	0.566572238	0	2.266288952	0	0	55.52407932	0	0	11.61473088	11.61473088	1.673867537	2.414880395
406	0.366300366	0	20.87912088	0	0	38.0952381	0	0	2.564102564	20.51282051	2.074508204	2.992882698
407	0	0	0	0	0	13.21695761	0	0	28.17955112	30.67331671	2.25557355	3.254104775
408	0.188323917	0	0	0	0	76.83615819	0	0.376647834	2.259887006	12.61770245	1.996174437	2.879870961
409	0.289017341	0	0	0	0	23.41040462	0	0	23.98843931	34.10404624	2.192705092	3.163404762
410	0.520833333	0	8.854166667	0	0	31.77083333	0	0	11.97916667	40.10416667	2.720766361	3.925236136
411	0.342465753	0	5.479452055	0	0	29.10958904	0	0	11.64383562	48.28767123	2.367480279	3.415552057
412	10.78904992	0	0	0	0	0	0	1.93236715	62.64090177	22.54428341	1.172405165	1.691423117
413	17.36641221	0	0.954198473	0	0	8.015267176	0	0.381679389	51.71755725	16.98473282	1.956895342	2.823203206
414	3.768844221	0	2.512562814	0	0	9.296482412	0	11.30653266	5.27638191	35.92964824	2.269911839	3.274790553
415	0	0	0.469483568	0	0	46.79186228	0	0	21.28325509	21.43974961	1.806849177	2.606732347
416	1.57790927	0	4.733727811	0	0	31.75542406	0	1.57790927	29.1913215	14.59566075	2.114057148	3.049939764
417	0.765550239	0	0	0	0	4.976076555	0	34.92822967	38.27751196	2.200956938	1.667803621	2.406132013
418	14.47124304	0	1.113172542	0	0	16.14100186	0	0	30.05565863	25.04638219	1.915823793	2.763949485
419	0.347826087	0	2.086956522	0	0	4.173913043	0	0.695652174	33.56521739	10.95652174	1.501490922	2.166193507
420	0	0	7.630522088	0	0	26.70682731	0	0	13.65461847	21.08433735	1.869336771	2.696882889
421	0.290135397	0	0	0	0	41.4893617	0	0.580270793	23.79110251	26.88588008	1.618168592	2.334523803
422	0.389105058	0	11.67315175	0	0	32.29571984	0	0	25.68093385	29.18287938	1.830059239	2.640217389
423	0	0	0	0	0	16.12446959	0	3.536067893	53.88967468	17.82178218	1.720807174	2.482599976
424	0.330033003	0	1.732673267	0	0	3.382838284	0	0	3.712871287	1.650165017	0.65899649	0.950730968
425	3.200692042	0	3.633217993	0	0	5.103806228	0	0	45.84775087	17.8200692	1.758399445	2.536834159
426	0	0	7.013574661	0	0	14.25339367	0	0	15.38461538	61.53846154	2.52813763	3.647331622
427	0	0	4.096385542	0	0	15.42168675	0	0.481927711	46.5060241	9.879518072	2.182225308	3.14828563
428	0	0	10.51344743	0	0	11.49144254	0	0	7.334963325	38.14180929	2.676579544	3.861488035
429	2.372262774	0	2.554744526	0	0	25.72992701	0	0.182481752	19.16058394	25.3649635	2.650968759	3.824539482
431	2.205882353	0	0	0	0	25	0	0	16.17647059	47.79411765	1.863337418	2.688227652
433	15.04424779	0	0	0	0	31.4159292	0	0	19.91150442	24.33628319	2.450640069	3.535526275
434	0.4375	0	0.375	0	0	46.75	0	1.125	33.5625	5.4375	1.942475319	2.80239951
435	0	0	1.298701299	0	0	66.23376623	0	1.298701299	9.090909091	20.12987013	2.192913303	3.163705147

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
436	0	0	3	0	0	74	0	0.666666667	8.666666667	11.33333333	2.000574346	2.886218689
437	0	0	6.315789474	0	0	61.05263158	0	0	7.368421053	22.10526316	1.943729796	2.804209337
438	0.294985251	0	5.604719764	0	0	46.60766962	0	0	20.3539823	21.23893805	2.262701089	3.26438764
439	0	0	3.921568627	0	0	50.98039216	0	0	15.68627451	23.52941176	2.286104226	3.29815123
440	0	0	1.081081081	0	0	78.91891892	0	2.432432432	4.054054054	5.405405405	1.535296381	2.214964475
441	0	0	10.67961165	0	0	63.10679612	0	0	3.883495146	18.44660194	1.759806472	2.538864071
442	1.436031332	0	0	0	0	38.12010444	0	0	32.50652742	27.67624021	1.657200528	2.390834984
443	5.806451613	0	0	0	0	10.96774194	0	0	65.80645161	17.41935484	1.645886124	2.374511749
444	0	0	0	0	0	0.410172272	0	0	94.17555373	5.250205086	0.907809347	1.309692043
445	0.305903946	0	0	0	0	0	0	0	99.54114408	0	0.390042024	0.562711694
446	0.342465753	0	0	0	0	3.767123288	0	0.342465753	19.8630137	66.09589041	1.45146173	2.09401664
447	1.739130435	0	0	0	0	3.913043478	0	0	15.65217391	71.30434783	1.819026679	2.624300769
448	1.305483029	0	0	0	0	40.7310705	0	0	7.049608355	38.12010444	2.129279858	3.071901491
450	0.873362445	0	0	0	0	30.56768559	0	0.436681223	6.986899563	51.52838428	2.540932871	3.665791253
451	1.571709234	0	0	0	0	22.78978389	0	0	3.536345776	57.56385069	2.427454653	3.50207679
452	0.490196078	0	0	0	0	33.45588235	0	0.367647059	30.88235294	27.08333333	2.222748628	3.206748423
453	1.257861635	0	0	0	0	40.25157233	0	0	15.30398323	41.71907757	1.950963525	2.814645402
454	2.011494253	0	0	0	0	27.5862069	0	0.862068966	12.93103448	55.45977011	1.897481539	2.737487207
455	0.261780105	0	0	0	0	46.85863874	0	0	7.853403141	43.97905759	1.430406217	2.063639955
456	0.529100529	0	0	0	0	15.87301587	0	0	41.7989418	40.74074074	1.366282991	1.971129695
457	1.149425287	0	9.195402299	0	0	25.28735632	0	0	13.79310345	50.57471264	2.027868086	2.925595231
458	4.172099087	0	0	0	0	22.55541069	0	26.46675359	7.04041721	25.9452412	2.316803474	3.342440883
459	0	0	0	0	0	0	0	84.07960199	0	15.92039801	0.857006508	1.23639904
460	14.0969163	0	0	0	0	20.26431718	0	3.524229075	44.05286344	18.06167401	1.730338091	2.496350183
461	10.63829787	0	0	0	0	26.24113475	0	1.418439716	30.4964539	29.78723404	1.852158154	2.672099383
462	1.098901099	0	0	0	0	15.38461538	0	0	23.07692308	47.25274725	1.968585586	2.840068663
463	0	0	0	0	0	54.90196078	0	0	13.7254902	21.56862745	1.679778543	2.423408173
464	0.336700337	0	0.336700337	0	0	18.51851852	0	0.336700337	13.8047138	60.94276094	2.189599432	3.158924243
465	0	0	0	0	0	52.2260274	0	0	19.8630137	25	1.956317618	2.822369725
466	0.20746888	0	7.123098202	0	0	35.20055325	0	0.691562932	16.66666667	6.915629322	2.523453512	3.640573867
467	0	0	5.855018587	0	0	11.33828996	0	0	67.00743494	15.79925651	1.632220932	2.354797045
468	3.215434084	0	20.25723473	0	0	27.65273312	0	0	4.180064309	44.05144695	2.22700369	3.21288718
469	0.877192982	0	5.263157895	0	0	45.61403509	0	0	4.385964912	43.85964912	1.221674012	1.762503038
470	0	0	4.444444444	0	0	7.777777778	0	0	7.777777778	80	1.414859123	2.04121024
471	5	0	9	0	0	8	0	0	11	67	2.027371005	2.924878095
472	3.519061584	0	0	0	0	14.2228739	0	2.785923754	27.41935484	47.94721408	1.995830313	2.879374496
473	2.07253886	0	0	0	0	5.284974093	0	1.450777202	68.39378238	20.62176166	1.634829343	2.358560185
474	1.548672566	0	0	0	0	24.77876106	0	0.221238938	43.14159292	27.21238938	2.18575282	3.153374754
475	5.128205128	0	0.534188034	0	0	13.9957265	0	0	61.53846154	16.23931624	1.772683917	2.557442296
476	4.231625835	0	0	0	0	4.231625835	0	0.445434298	46.54788419	36.74832962	2.008308446	2.897376636
477	0.660066007	0	0	0	0	17.82178218	0	0.330033003	47.68976898	22.93729373	1.829216762	2.639001952
478	0	0	0	0	0	63.88888889	0	11.11111111	5.555555556	16.66666667	1.357413795	1.958334151
479	0	0	0	0	0	9.170305677	0	0	31.87772926	54.14847162	1.913124249	2.760054867
480	6.488549618	0	0	0	0	11.83206107	0	17.17557252	20.61068702	38.54961832	2.011069763	2.901360374
481	0.534759358	0	1.069518717	0	0	21.39037433	0	0	7.486631016	62.03208556	1.716622985	2.476563468

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
482	0	0	0	0	0	6.315789474	0	0.526315789	35.26315789	47.36842105	1.949094354	2.811948759
483	0	0	0	0	0	32.27091633	0	0.398406375	8.366533865	50.19920319	2.070951436	2.987751367
484	0	0	0	0	0	39.4265233	0	0.358422939	11.46953405	40.50179211	1.935280124	2.792019038
485	0	0	0	0	0	56.71641791	0	0	8.457711443	25.87064677	1.934540652	2.790952205
486	0	0	1.023890785	0	0	59.21501706	0	0	8.020477816	14.67576792	1.718244026	2.478902135
487	0	0	4.494382022	0	0	74.40699126	0	0	6.991260924	4.744069913	1.310736347	1.890992828
488	0	0	0	0	0	60.72727273	0	0	12.36363636	19.63636364	1.953242807	2.817933712
489	0.319488818	0	26.51757188	0	0	24.9201278	0	0	17.57188498	16.61341853	2.453070279	3.539032326
490	0	0	0	0	0	12.5	0	0	25	50	1.44023475	2.077819531
491	0	0	3.703703704	0	0	37.03703704	0	0	14.81481481	25.92592593	2.198228358	3.17137315
492	0	0	4.651162791	0	0	30.23255814	0	0	13.95348837	39.53488372	1.827038404	2.635859245
493	0	0	15.88235294	0	0	15	0	0	15.88235294	35.88235294	1.993829563	2.876488023
494	0	0	0	0	0	10.88825215	0	0	30.37249284	32.09169054	2.035712244	2.936911959
495	2.464788732	0	0.704225352	0	0	52.46478873	0	0	5.281690141	28.52112676	2.268691565	3.27303007
496	0.316455696	0	25.94936709	0	0	45.25316456	0	0.949367089	6.962025316	13.29113924	1.966729704	2.837391191
497	1.630434783	0	6.25	0	0	18.75	0	1.086956522	6.25	4.347826087	1.675431397	2.417136568
498	0.318471338	0	24.52229299	0	0	15.2866242	0	0.318471338	13.05732484	19.74522293	2.318330396	3.344643765
499	1.374570447	0	31.27147766	0	0	24.39862543	0	0	4.467353952	16.83848797	2.5135751	3.626322332
500	0.37593985	0	0	0	0	58.64661654	0	0	0.751879699	20.67669173	2.131277728	3.074783809
501	1.337792642	0	0	0	0	46.48829431	0	0	28.76254181	15.05016722	2.480489762	3.578590278
502	0	0	5.911330049	0	0	66.00985222	0	0	3.9408867	13.79310345	2.071322504	2.988286705
503	0	0	1.209677419	0	0	79.03225806	0	0	3.629032258	13.70967742	1.652528743	2.384095023
504	0	0	3.396226415	0	0	54.71698113	0	3.018867925	13.96226415	10.18867925	2.497768274	3.603517902
505	0	0	2.649006623	0	0	49.66887417	0	0	7.947019868	21.19205298	2.085119889	3.008192124
506	0.294985251	0	0	0	0	49.85250737	0	0.294985251	5.014749263	35.10324484	1.668337762	2.406902615
507	0	0	0	0	0	55.92592593	0	2.592592593	0.740740741	14.81481481	2.220933722	3.204130067
508	0	0	5.743243243	0	0	65.54054054	0	0	3.716216216	22.97297297	2.375890382	3.427685272
509	0	0	14.52702703	0	0	56.41891892	0	0	4.72972973	16.89189189	2.53946839	3.663678453
510	0.258397933	0	14.9870801	0	0	55.55555556	0	0	3.100775194	12.91989664	2.005120275	2.892777078
511	0.289855072	0	0.289855072	0	0	60.86956522	0	5.507246377	8.405797101	17.97101449	2.204795805	3.180847974
512	0	0	9.85915493	0	0	46.12676056	0	0	5.985915493	34.85915493	2.198037055	3.171097159
513	0	0	12.82051282	0	0	75.45787546	0	0	8.058608059	3.296703297	1.687126721	2.434009354
514	0.638977636	0	27.15654952	0	0	49.52076677	0	0	6.389776358	14.37699681	2.449193949	3.533439964
515	0.970873786	0	30.09708738	0	0	31.06796117	0	0	23.30097087	7.766990291	2.055031172	2.964783281
516	0.156985871	0	15.69858713	0	0	29.12087912	0	0.235478807	35.94976452	10.83202512	2.219740374	3.20240843
517	7.52688172	0	7.168458781	0	0	24.37275986	0	1.433691756	12.54480287	34.05017921	2.724414867	3.930499817
518	23.15789474	0	19.73684211	0	0	23.68421053	0	2.631578947	4.473684211	19.73684211	2.762179077	3.984982057
519	12.8113879	0	0.711743772	0	0	44.83985765	0	0.711743772	6.40569395	23.1316726	2.316377231	3.341825944
520	0.337837838	0	1.689189189	0	0	11.48648649	0	2.027027027	8.108108108	23.98648649	1.572131907	2.268106905
521	9.150326797	0	0.980392157	0	0	37.90849673	0	0.326797386	4.248366013	29.73856209	2.253118511	3.250562902
522	0.609756098	0	8.841463415	0	0	17.98780488	0	0	19.51219512	47.86585366	2.459333928	3.548068861
523	0.588235294	0	0	0	0	10	0	0	80.58823529	0	1.194966452	1.723972174
524	1.224489796	0	0.816326531	0	0	33.26530612	0	0.204081633	0.816326531	54.08163265	1.929972229	2.784361364
525	6.229508197	0	30.81967213	0	0	11.80327869	0	3.606557377	5.901639344	35.08196721	2.95309428	4.260414472
526	5.80474934	0	4.221635884	0	0	24.53825858	0	1.055408971	9.234828496	35.35620053	2.678472596	3.864219132

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
527	0.662251656	0	15.23178808	0	0	38.41059603	0	0.331125828	13.90728477	19.20529801	2.746062892	3.961731317
528	7.886435331	0	23.02839117	0	0	21.13564669	0	0.630914826	7.570977918	29.96845426	2.780156588	4.010918122
529	0	0	0	0	0	28.83435583	0	0	50	15.95092025	1.518562097	2.190822006
530	2.222222222	0	0	0	0	0	0	0	6.666666667	91.11111111	0.392379177	0.566083492
531	0	0	17.21068249	0	0	2.37388724	0	0	4.747774481	44.80712166	2.245891244	3.24013616
532	0.722021661	0	23.8267148	0	0	7.220216606	0	0	6.859205776	25.27075812	2.223962495	3.208499662
533	0	0	5.685618729	0	0	3.678929766	0	0	26.08695652	59.86622074	1.698539782	2.450474921
534	0	0	1.687763713	0	0	5.907172996	0	0	52.32067511	39.66244726	1.594976692	2.301064964
535	0	0	9.85915493	0	0	12.20657277	0	0	29.57746479	46.47887324	2.386425997	3.442884951
536	8.823529412	0	0.588235294	0	0	4.117647059	0	0	31.17647059	45.29411765	2.31129956	3.334500413
537	0.602409639	0	0	0	0	11.74698795	0	0	20.78313253	60.84337349	1.616045587	2.331460954
538	3.225806452	0	0	0	0	3.225806452	0	2.419354839	51.61290323	15.72580645	1.658229344	2.392319251
539	0.809716599	0	0.4048583	0	0	1.619433198	0	2.024291498	77.32793522	6.882591093	1.215796017	1.754022885
540	1.162790698	0	11.62790698	0	0	12.79069767	0	1.162790698	8.139534884	60.46511628	1.91539079	2.763324794
541	0.657894737	0	5.921052632	0	0	38.48684211	0	0	34.86842105	14.47368421	2.017197838	2.910201317
542	1.153846154	0	28.07692308	0	0	2.307692308	0	0	33.84615385	22.30769231	2.695139686	3.888264659
543	0.283286119	0	43.3427762	0	0	4.815864023	0	0	19.83002833	27.47875354	2.357377409	3.400976698
544	0	0	0	0	0	21.4057508	0	6.389776358	18.21086262	51.7571885	1.63111859	2.353206701
545	0	0	1.646090535	0	0	18.10699588	0	7.818930041	17.69547325	39.50617284	2.24420151	3.237698389
546	1.307189542	0	8.823529412	0	0	52.94117647	0	0	7.843137255	22.54901961	1.965195083	2.8351772
547	0	0	12.66233766	0	0	42.85714286	0	0.324675325	17.85714286	7.792207792	2.313027509	3.336993316
548	0.299401198	0	1.19760479	0	0	13.17365269	0	0	14.07185629	69.76047904	1.218846752	1.758424164
549	0	0	0.483870968	0	0	11.93548387	0	0	21.77419355	63.38709677	1.684820497	2.430682176
550	0	0	0.440205429	0	0	3.595011005	0	0	26.41232575	66.39765224	1.682282765	2.427021003
551	0	0	0.356125356	0	0	41.16809117	0	7.12 -02	11.11111111	45.44159544	1.533323585	2.212118332
552	0	0	0.542495479	0	0	36.88969259	0	0	14.03254973	41.73598553	1.756844298	2.534590557
553	2.776400595	0	14.32821021	0	0	14.0803173	0	0	14.27863163	36.29152206	2.627788881	3.791097987
554	0	0	0.287631831	0	0	8.197507191	0	0	12.46404602	54.07478428	1.533898211	2.212947343
555	2.462787551	0	5.331529093	0	0	9.228687415	0	0	49.8782138	26.35994587	2.183808533	3.150569741
556	0	0	37.01863354	0	0	14.45134576	0	0	12.46376812	33.08488613	2.545989411	3.673086297
558	0.656934307	0	0.437956204	0	0	16.56934307	0	0	37.51824818	40.80291971	2.089193549	3.014069172
559	0.36687631	0	0.314465409	0	0	27.62054507	0	5.24 -02	10.32494759	52.09643606	1.732791975	2.499890389
560	0.965309201	0	0.512820513	0	0	6.274509804	0	6.03 -02	52.760181	36.50075415	1.860950239	2.684783681
561	0	0	6.179066835	0	0	29.50819672	0	0.25220681	28.58343842	32.11433375	2.58986429	3.736384367
562	0	0	0.492610837	0	0	0.492610837	0	0	3.448275862	93.59605911	0.368053045	0.530988303
563	0	0	1.689189189	0	0	3.716216216	0	0	8.445945946	77.7027027	1.104011699	1.592752203
564	0.847457627	0	0	0	0	0.423728814	0	5.508474576	23.30508475	48.30508475	1.997687188	2.8820534
565	0	0	0	0	0	0.920245399	0	1.533742331	57.36196319	28.83435583	1.900828488	2.742315834
566	0	0	0	0	0	0	0	0	0	85.71428571	0.410116318	0.591672779
567	0	0	0	0	0	9.090909091	0	0	54.54545455	18.18181818	1.972246979	2.845350937
568	0	0	10.3286385	0	0	23.94366197	0	0	18.77934272	28.16901408	2.405443155	3.470320911
569	0	0	10.98265896	0	0	30.63583815	0	0	4.624277457	41.04046243	2.528287925	3.647548452
570	0	0	40.76655052	0	0	17.42160279	0	4.181184669	9.407665505	18.81533101	2.403300492	3.467229702
571	0.331125828	0	3.642384106	0	0	75.82781457	0	1.655629139	5.298013245	3.642384106	1.910838202	2.756756798
572	0.502512563	0	19.59798995	0	0	46.23115578	0	1.507537688	7.537688442	15.57788945	2.389557953	3.447403409

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
573	0.434782609	0	1.739130435	0	0	19.13043478	0	15.2173913	24.34782609	10	2.651601715	3.825452645
574	0.740740741	0	1.851851852	0	0	72.59259259	0	0.37037037	0	21.85185185	1.312007851	1.89282722
575	0	0	9.6	0	0	20	0	2.8	46.8	17.2	2.311763028	3.335169056
576	2.255639098	0	0	0	0	16.54135338	0	0	43.60902256	35.71428571	1.740842043	2.511504183
577	0.662251656	0	0.662251656	0	0	2.317880795	0	0.331125828	18.21192053	77.81456954	0.925210352	1.334796386
578	0	0	2.298850575	0	0	17.24137931	0	0	0	80.45977011	0.996505368	1.437653353
579	0	0	2.074688797	0	0	17.84232365	0	0	9.128630705	70.95435685	1.345299693	1.940857195
580	0	0	17.10526316	0	0	36.18421053	0	12.5	17.10526316	13.81578947	2.193071376	3.163933198
581	0	0	0	0	0	13.67521368	0	3.418803419	29.05982906	52.99145299	1.304820644	1.882458272
582	0.315457413	0	2.208201893	0	0	44.79495268	0	0.630914826	14.1955836	32.49211356	2.361592651	3.407058006
583	0	0	3.715170279	0	0	35.60371517	0	0.92879257	7.430340557	49.53560372	1.941699306	2.801279959
584	0	0	13.08411215	0	0	43.92523364	0	0	14.01869159	24.29906542	2.201102874	3.175520201
585	2.580645161	0	1.290322581	0	0	23.87096774	0	2.258064516	33.87096774	31.61290323	2.657334112	3.833722746
586	0.390625	0	1.953125	0	0	30.078125	0	0.390625	26.171875	36.71875	2.550674099	3.679844874
587	0	0	3.191489362	0	0	5.85106383	0	0.531914894	9.042553191	75.53191489	1.487629178	2.146195238
588	0	0	2.816901408	0	0	49.76525822	0	2.34741784	0	37.55868545	2.242189096	3.23479509
589	1.219512195	0	7.317073171	0	0	4.87804878	0	0	2.43902439	17.07317073	1.245723366	1.797198923
590	2.380952381	0	28.57142857	0	0	9.523809524	0	0	9.523809524	29.76190476	2.349438591	3.389523403
591	0	0	0	0	0	0	0	14.28571429	57.14285714	0	1.277034259	1.842370993
592	6.25	0	0	0	0	0	0	0	75	0	1.124035722	1.621640762
593	0	0	14.51612903	0	0	8.064516129	0	0	10.48387097	51.20967742	2.581980592	3.725010595
594	0	0	14.51612903	0	0	8.064516129	0	0	10.48387097	51.20967742	2.581980592	3.725010595
595	0	0	13.36206897	0	0	3.879310345	0	0	43.53448276	29.74137931	2.062930547	2.976179669
596	0	0	9.274193548	0	0	3.225806452	0	0	15.32258065	35.08064516	1.853196141	2.673596882
597	0	0	7.575757576	0	0	13.25757576	0	0	26.89393939	16.28787879	1.983834873	2.862068733
598	0	0	30.36649215	0	0	14.65968586	0	0	13.61256545	18.84816754	2.439236834	3.519074884
599	0	0	0	0	0	4.8	0	30.4	6.4	8	2.440824093	3.521364815
600	0.416666667	0	0	0	0	7.5	0	10	15	40.41666667	2.698672928	3.89336205
601	0	0	0	0	0	0	0	0	33.33333333	44.44444444	1.522955068	2.197159723
602	0	0	0	0	0	60.40816327	0	0	11.02040816	19.18367347	2.090394392	3.015801623
603	0	0	0	0	0	23.97959184	0	33.16326531	6.632653061	4.591836735	1.99294437	2.87521096
604	0	0	0	0	0	3.6	0	0	7.6	88	1.234704691	1.781302334
605	0	0	2.904564315	0	0	16.59751037	0	0	15.3526971	52.69709544	2.048125671	2.954820749
606	0	0	0	0	0	52	0	4	20	12	2.077643387	2.997405811
607	0	0	6.015037594	0	0	25.56390977	0	0	15.03759398	34.58646617	2.492164508	3.595433376
608	1.145038168	0	0	0	0	2.671755725	0	0.381679389	54.58015267	27.09923664	1.77262704	2.55736024
609	0.33557047	0	0.33557047	0	0	27.18120805	0	0	16.77852349	23.82550336	2.412594264	3.48063778
610	0.420168067	0	0	0	0	10.50420168	0	0	9.663865546	70.16806723	2.064022156	2.977754529
611	0	0	0	0	0	9.677419355	0	0	8.294930876	58.98617512	2.318216355	3.344479238
612	0.900900901	0	0	0	0	9.90990991	0	0	4.054054054	59.90990991	2.089482803	3.014486478
613	2.53164557	0	2.109704641	0	0	5.907172996	0	0	11.39240506	49.78902954	1.997997819	2.882501545
614	0.847457627	0	13.98305085	0	0	5.93220339	0	0	31.3559322	6.779661017	2.521272099	3.637426753
615	0	0	1.843317972	0	0	18.43317972	0	0	23.96313364	22.58064516	2.357033102	3.400479967
616	0	0	5.679012346	0	0	16.79012346	0	0	11.11111111	11.60493827	2.164888012	3.1232732
617	0	0	0.657894737	0	0	46.38157895	0	0	25	19.40789474	2.045421228	2.950919062

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
618	0	0	0	0	0	15.50802139	0	0	55.34759358	21.92513369	1.762751943	2.543113486
619	2.427184466	0	3.398058252	0	0	7.766990291	0	0.970873786	24.75728155	24.27184466	2.557047535	3.689039798
620	0.449438202	0	0	0	0	53.48314607	0	0.449438202	19.3258427	11.68539326	1.946148067	2.807698165
621	2.43902439	0	0	0	0	7.317073171	0	1.219512195	19.91869919	35.77235772	2.249450489	3.245271065
622	0.735294118	0	0	0	0	7.352941176	0	75	1.470588235	0.735294118	1.580207561	2.279757612
623	0	0	0	0	0	34.69387755	0	22.95918367	4.591836735	12.24489796	1.976546511	2.85155385
624	0	0	0	0	0	4.035874439	0	0	26.9058296	62.33183857	1.716159819	2.47589526
625	0	0	0	0	0	7.692307692	0	0	27.17948718	54.87179487	2.217358958	3.198972773
626	0	0	0	0	0	46.66666667	0	5.185185185	19.25925926	8.888888889	2.069820183	2.986119314
627	0	0	0	0	0	4.568527919	0	17.76649746	18.78172589	13.19796954	2.431157033	3.507418196
628	0	0	0	0	0	5.442176871	0	2.040816327	3.401360544	19.72789116	2.147377579	3.098010985
629	0	0	0	0	0	0	0	0	16.66666667	50	1.791759469	2.584962501
630	1.25	0	0	0	0	13.75	0	0	20	32.5	2.329703557	3.361051768
631	0	0	0	0	0	13.04347826	0	4.347826087	26.08695652	47.82608696	2.19464393	3.166201915
632	0	0	0	0	0	4.561403509	0	0	2.105263158	60.70175439	2.628605392	3.792275964
633	0.925925926	0	0	0	0	18.51851852	0	0	1.851851852	52.31481481	2.606987733	3.761088274
634	0	0	0	0	0	29.03225806	0	6.451612903	32.25806452	9.677419355	2.324736159	3.353885327
635	0	0	0	0	0	12.5	0	0	17.04545455	35.22727273	2.561917301	3.696065386
636	0	0	0	0	0	14.64968153	0	0	12.7388535	33.75796178	2.401531138	3.464677063
637	5.238095238	0	11.9047619	0	0	24.76190476	0	0	5.714285714	28.57142857	2.340063524	3.375998042
638	0.164338537	0	0	0	0	7.723911257	0	0	2.382908792	75.18488085	1.828856656	2.638482428
639	0.615384615	0	0	0	0	14.15384615	0	0	6.769230769	53.23076923	2.286000304	3.298001302
640	0	0	32.77310924	0	0	10.92436975	0	0.420168067	6.722689076	43.69747899	2.287672166	3.30041329
641	3.773584906	0	0	0	0	4.088050314	0	2.201257862	24.21383648	65.09433962	1.294466483	1.867520375
642	0	0	0.778210117	0	0	50.97276265	0	2.33463035	18.6770428	13.22957198	2.450772802	3.535717768
643	0.621118012	0	3.416149068	0	0	53.72670807	0	1.242236025	9.316770186	13.66459627	2.225660838	3.210949853
644	0	0	25.64102564	0	0	26.28205128	0	0	12.17948718	17.30769231	2.533287543	3.654761375
645	1.648351648	0	24.72527473	0	0	18.40659341	0	0	4.67032967	36.81318681	2.73349046	3.943593131
646	6.12244898	0	22.44897959	0	0	19.59183673	0	0	0.408163265	26.53061224	2.532661898	3.65385876
647	0	0	0	0	0	0.904977376	0	25.7918552	19.90950226	22.1719457	2.334587909	3.368098398
648	0	0	0.420168067	0	0	27.73109244	0	3.781512605	9.663865546	17.22689076	2.607052843	3.761182208
649	0	0	0.338983051	0	0	20.33898305	0	3.050847458	8.813559322	26.10169492	1.995408566	2.878766043
650	1.766784452	0	2.120141343	0	0	41.34275618	0	0.35335689	31.09540636	15.54770318	2.246135689	3.24048882
651	7.342657343	0	1.048951049	0	0	11.88811189	0	1.048951049	52.0979021	24.47552448	2.054883506	2.964570244
652	2.036199095	0	2.036199095	0	0	48.86877828	0	2.714932127	21.49321267	18.5520362	1.879312238	2.711274446
653	0	0	11.76470588	0	0	10.40723982	0	0	2.714932127	49.77375566	2.43803775	3.517344971
654	0.529661017	0	0	0	0	76.85381356	0	4.872881356	0.529661017	5.93220339	1.177337885	1.698539529
655	1.020408163	0	8.843537415	0	0	56.12244898	0	0.340136054	11.56462585	9.183673469	1.979055442	2.855173472
656	5.331753555	0	0.118483412	0	0	59.95260664	0	7.938388626	6.990521327	12.44075829	2.428161751	3.503096917
657	6.02006689	0	5.016722408	0	0	20.51282051	0	0.557413601	20.73578595	2.675585284	1.851107309	2.670583335
658	2.599388379	0	0.152905199	0	0	6.116207951	0	62.6911315	9.480122324	2.905198777	1.892292622	2.730001182
659	0	0	4.074074074	0	0	60	0	0	8.148148148	10.74074074	2.02036653	2.914772774
660	0	0	13.62126246	0	0	39.20265781	0	0	7.641196013	14.95016611	2.133493985	3.077981192
661	0	0	9.316770186	0	0	15.52795031	0	0	20.80745342	43.47826087	2.485202227	3.585388928
662	2.950819672	0	0	0	0	61.31147541	0	3.606557377	17.70491803	13.44262295	1.906185942	2.750045005

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
663	0.757575758	0	0.757575758	0	0	29.54545455	0	4.166666667	22.72727273	7.575757576	2.393531807	3.453136468
664	0.793650794	0	10.31746032	0	0	17.06349206	0	0	8.333333333	58.33333333	2.693464317	3.885847613
665	10.98484848	0	2.651515152	0	0	20.83333333	0	0.757575758	25	29.92424242	2.359928955	3.404657801
666	1.081081081	0	41.62162162	0	0	4.324324324	0	0	14.05405405	2.702702703	2.32917318	3.360286596
667	0	0	8.955223881	0	0	31.34328358	0	0	9.328358209	36.94029851	2.521542045	3.637816204
668	1.694915254	0	10.16949153	0	0	28.81355932	0	0	47.45762712	0	2.031018853	2.930140828
669	0	0	15.78947368	0	0	35.0877193	0	0	8.771929825	0	2.156988669	3.111876856
670	5.637254902	0	8.823529412	0	0	14.46078431	0	0	38.97058824	9.068627451	2.285574184	3.297386541
671	6.5	0	9	0	0	9.5	0	0	36.5	2.5	2.097541465	3.026112669
672	0	0	1.960784314	0	0	16.66666667	0	0	27.45098039	17.64705882	2.20851377	3.186211864
673	0.316455696	0	3.797468354	0	0	13.60759494	0	0	26.89873418	14.55696203	1.94575529	2.807131507
674	0	0	3.910614525	0	0	11.73184358	0	0	31.2849162	25.1396648	2.358202454	3.402166985
675	0.534759358	0	2.139037433	0	0	38.5026738	0	0	34.75935829	8.021390374	2.152290942	3.105099468
676	0	0	14.28571429	0	0	17.42160279	0	0	10.45296167	49.12891986	2.504738282	3.613573498
677	0	0	46.75324675	0	0	27.70562771	0	0	6.926406926	5.194805195	2.120334722	3.058996388
678	0.668151448	0	0.445434298	0	0	77.95100223	0	0	6.681514477	12.69487751	1.134264323	1.636397513
679	0	0	50.20746888	0	0	8.713692946	0	0	10.37344398	29.04564315	2.194339063	3.165762084
680	0.704225352	0	2.816901408	0	0	15.84507042	0	0.352112676	15.49295775	7.042253521	1.506930162	2.174040672
681	0.709219858	0	2.482269504	0	0	24.46808511	0	0	23.04964539	35.81560284	2.202509351	3.177549319
682	0	0	13.38912134	0	0	31.79916318	0	0	7.949790795	26.35983264	2.573813008	3.713227263
683	0.732600733	0	0.366300366	0	0	40.65934066	0	0	17.21611722	38.82783883	1.624345469	2.343435153
684	0	0	0	0	0	53.22033898	0	0	8.474576271	15.59322034	2.115871598	3.052557461
685	1.581027668	0	0	0	0	50.19762846	0	0.790513834	15.41501976	10.67193676	2.301706196	3.320660115
686	5.063291139	0	3.375527426	0	0	18.14345992	0	0	3.797468354	23.20675105	2.04664195	2.952680191
687	0	0	3.861003861	0	0	41.31274131	0	0	10.42471042	15.05791506	2.207538462	3.184804792
688	0	0	0.666666667	0	0	46	0	0.333333333	15.33333333	23.33333333	2.233559489	3.222345198
689	0	0	11.01321586	0	0	28.63436123	0	0	6.167400881	42.2907489	2.609845114	3.765210603
690	0.806451613	0	2.016129032	0	0	29.83870968	0	0	9.677419355	55.24193548	1.940808811	2.799995247
691	1.916932907	0	2.236421725	0	0	18.84984026	0	0	12.4600639	61.34185304	1.991933596	2.87375272
692	0	0	33.33333333	0	0	33.33333333	0	16.66666667	0	0	1.560710409	2.251629167
693	36.50793651	0	0	0	0	19.04761905	0	1.587301587	33.33333333	0	1.587706565	2.290576388
694	0	0	0	0	0	27.27272727	0	0	45.45454545	0	2.019814992	2.913977073
695	0	0	11.67192429	0	0	35.33123028	0	0	33.01787592	13.98527865	2.125610191	3.066607282
696	0	0	13.80753138	0	0	44.76987448	0	0	21.75732218	12.13389121	2.357443031	3.40107137
697	0	0	4.377104377	0	0	13.46801347	0	2.356902357	16.16161616	24.57912458	2.417990036	3.488422234
698	1.045296167	0	0.348432056	0	0	4.87804878	0	3.135888502	13.58885017	56.79442509	2.270082089	3.275036172
699	0.16	0	10.08	0	0	42.24	0	1.6	11.68	9.28	2.528271711	3.647525059
700	0.71942446	0	3.237410072	0	0	7.194244604	0	1.079136691	12.23021583	53.5971223	2.187824241	3.156363182
701	0.862068966	0	4.310344828	0	0	28.87931034	0	0	30.60344828	31.89655172	2.062545818	2.975624623
702	1.818181818	0	4.848484848	0	0	32.12121212	0	0.606060606	26.66666667	32.12121212	2.20980268	3.188071368
703	8.163265306	0	2.040816327	0	0	28.57142857	0	0	19.72789116	35.37414966	2.426105343	3.500130147
704	0.483091787	0	2.898550725	0	0	3.8647343	0	0	26.57004831	62.31884058	1.583865921	2.28503551
705	0.363636364	0	0.363636364	0	0	1.454545455	0	0	19.63636364	69.81818182	1.195128647	1.724206173
706	2.051282051	0	1.538461538	0	0	15.8974359	0	0	3.58974359	13.33333333	1.606486397	2.317669959
707	0.386100386	0	5.019305019	0	0	9.652509653	0	0	44.4015444	32.81853282	2.049953881	2.957458298

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
708	6.349206349	0	8.888888889	0	0	13.33333333	0	1.26984127	25.71428571	33.65079365	2.553043344	3.683262972
709	3.703703704	0	2.880658436	0	0	9.87654321	0	1.234567901	14.40329218	59.25925926	2.135325802	3.080623945
710	6.346749226	0	8.049535604	0	0	19.3498452	0	0.619195046	23.99380805	23.99380805	2.616444754	3.774731871
713	0.17921147	0	0.358422939	0	0	12.72401434	0	0.17921147	12.00716846	68.99641577	1.75774199	2.535885652
716	0	0	3.409090909	0	0	27.84090909	0	0	43.18181818	25.56818182	2.539417433	3.663604937
717	0	0	4.545454545	0	0	2.813852814	0	0	73.16017316	14.06926407	1.263702924	1.823137942
718	0	0	6.735751295	0	0	5.958549223	0	0	61.13989637	23.83419689	1.764668004	2.545877779
719	0.389863548	0	0.584795322	0	0	47.95321637	0	0.194931774	0.389863548	26.51072125	2.694239984	3.886966664
720	0.760456274	0	0.380228137	0	0	35.36121673	0	0	5.323193916	37.64258555	2.410093985	3.47703064
723	0.342465753	0	0.342465753	0	0	27.39726027	0	0	28.42465753	32.87671233	2.377795223	3.430433377
724	1.53256705	0	1.149425287	0	0	8.812260536	0	1.149425287	21.07279693	41.37931034	2.491425422	3.594367102
725	3.975535168	0	0.101936799	0	0	53.21100917	0	0	5.198776758	20.79510703	2.753118639	3.971910608
728	0.34965035	0	0	0	0	23.77622378	0	0	6.643356643	23.07692308	2.852096985	4.114706177
729	6.530612245	0	1.224489796	0	0	40	0	0.816326531	5.714285714	22.85714286	2.46982672	3.563206761
730	0.775193798	0	0.387596899	0	0	25.19379845	0	0	16.66666667	27.90697674	2.886182955	4.163881836
731	2.680067002	0	10.88777219	0	0	14.40536013	0	0	13.06532663	39.36348409	2.483749062	3.583292455
732	6.926406926	0	8.225108225	0	0	7.359307359	0	0	19.04761905	48.48484848	2.27599424	3.283565604
733	1.843317972	0	5.529953917	0	0	22.58064516	0	0	5.529953917	55.29953917	2.366658321	3.414366223
734	3.603603604	0	8.108108108	0	0	6.306306306	0	0	5.405405405	53.6036036	2.283853428	3.294904015
735	0	0	0	0	0	35.38461538	0	0	49.87179487	6.153846154	1.845131657	2.661962292
736	0.443599493	0	9.252217997	0	0	20.72243346	0	0.126742712	11.40684411	54.30925222	2.079210097	2.999666095
737	0	0	0	0	0	1.509433962	0	12.45283019	49.43396226	27.54716981	1.972467793	2.845669503
738	7.115009747	0	0	0	0	2.2417154	0	2.826510721	62.08576998	25.73099415	1.56692892	2.260600583
739	0	0	0	0	0	24.2816092	0	1.293103448	58.90804598	3.735632184	2.082553798	3.004490037
740	0	0	0	0	0	29.83870968	0	0	4.838709677	40.32258065	2.293463415	3.308768295
741	1.434878587	0	0	0	0	48.78587196	0	2.538631347	31.89845475	2.097130243	1.50730179	2.174576817
742	8.256880734	0	0	0	0	37.6146789	0	1.834862385	11.00917431	29.35779817	2.22472844	3.209604688
743	0.9194159	0	0.9194159	0	0	15.63007031	0	0	12.27690644	65.00811249	2.233019629	3.221566345
744	13.90374332	0	0	0	0	25.93582888	0	4.545454545	26.20320856	18.98395722	2.296757103	3.313520083
745	1.666666667	0	0	0	0	0.555555556	0	37.22222222	42.77777778	0	1.659923555	2.394763481
746	4.166666667	0	0	0	0	8.333333333	0	8.333333333	0	70.83333333	1.156374554	1.668295834
747	0	0	0	0	0	18.75	0	9.375	6.25	56.25	1.767040446	2.549300488
748	0	0	0	0	0	0	0	0	0	0	0	0
749	0	0	0	0	0	9.868421053	0	0	23.68421053	32.89473684	1.675398273	2.41708878
750	0.4784689	0	0	0	0	57.89473684	0	0	23.44497608	0	1.340606775	1.934086746
751	0	0	0	0	0	53.8071066	0	3.299492386	3.807106599	18.78172589	2.372210369	3.422376135
752	0.152091255	0	0	0	0	7.60 -02	0	0	99.7338403	0	0.428550468	0.618267635
753	0	0	31.49606299	0	0	10.23622047	0	0	7.086614173	45.66929134	1.866890563	2.693353758
754	6.069364162	0	12.71676301	0	0	0	0	0	11.84971098	65.89595376	1.551699939	2.238629807
755	2.209944751	0	2.209944751	0	0	11.04972376	0	0	9.392265193	68.50828729	1.618093234	2.334415084
756	0	0	1.042442293	0	0	22.48696947	0	5.063291139	48.7714073	4.616530156	2.035104489	2.936035154
757	0.642054575	0	17.01444623	0	0	6.902086677	0	0.642054575	36.7576244	25.04012841	2.315162813	3.34007391
758	5.71 -02	0	0.285388128	0	0	15.52511416	0	0	73.74429224	6.621004566	1.398054833	2.016966775
759	0	0	0	0	0	0	0	6.666666667	53.33333333	15	1.679646047	2.423217023
760	0	0	0	0	0	26.99425654	0	1.595405233	7.211231653	21.12316528	1.780062379	2.568087167

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
761	0.468227425	0	0	0	0	15.85284281	0	0.133779264	4.949832776	73.64548495	1.162671519	1.677380435
762	1.652892562	0	0	0	0	7.713498623	0	8.26446281	31.12947658	45.45454545	2.069754511	2.986024568
763	0.382262997	0	1.070336391	0	0	23.92966361	0	0.229357798	11.31498471	60.55045872	1.626444841	2.346463907
764	0	0	0	0	0	69.30921053	0	0.493421053	27.10526316	1.085526316	0.936806205	1.351525666
765	2.372262774	0	2.554744526	0	0	25.72992701	0	0.182481752	19.16058394	25.3649635	2.650968759	3.824539482
766	0.652528548	0	0	0	0	10.27732463	0	1.549755302	26.34584013	56.93311582	2.441723814	3.522662838
767	0.185614849	0	0	0	0	1.62412993	0	93.50348028	3.109048724	4.64 -02	0.379706306	0.547800405
768	0	0	0	0	0	39.31034483	0	0.344827586	24.82758621	28.27586207	2.627671361	3.790928442
769	0.715990453	0	12.88782816	0	0	22.91169451	0	0	31.26491647	14.08114558	2.37989807	3.433467143
770	0.549450549	0	17.58241758	0	0	10.98901099	0	0.549450549	26.92307692	20.87912088	2.462685804	3.552904596
771	0	0	5.701078582	0	0	21.7257319	0	0	4.160246533	67.48844376	1.950473367	2.813938255
772	1.149425287	0	0	0	0	64.36781609	0	0	11.49425287	19.54022989	1.518149247	2.190226391
773	0	0	0	0	0	23.4828496	0	0.674289065	66.60803283	7.944884198	1.272425729	1.835722289
774	0	0	0	0	0	0	0	0	0	0	0	0
775	0	0	0	0	0	2.857142857	0	1.428571429	52.85714286	41.42857143	1.576453602	2.274341794
776	0	0	4.62962963	0	0	9.027777778	0	0	28.7037037	53.00925926	2.527669683	3.646656517
777	0	0	0	0	0	26.31578947	0	0	22.36842105	35.52631579	1.570283852	2.265440725
778	0	0	0	0	0	72.6681128	0	1.084598698	9.978308026	1.301518438	2.09076155	3.01633132
779	0	0	0	0	0	15.11627907	0	3.488372093	8.139534884	46.51162791	1.844676055	2.661304997
780	5.078125	0	12.6953125	0	0	8.984375	0	0	7.6171875	1.3671875	1.656677244	2.390080044
781	13.87024609	0	18.34451902	0	0	4.026845638	0	0	20.58165548	24.38478747	2.265142865	3.267910379
782	7.843137255	0	3.921568627	0	0	21.56862745	0	0	3.921568627	60.78431373	1.875855567	2.706287523
783	0	0	0	0	0	0	0	0.354609929	21.45390071	0	1.422749228	2.052593255
784	0	0	0	0	0	1.162790698	0	0	83.72093023	0.290697674	1.104189997	1.593009433
785	0.625	0	0	0	0	44.0625	0	0	3.4375	48.75	1.074726298	1.5505023
786	14.21319797	0	0	0	0	0	0	0	64.46700508	0	1.12927311	1.629196716
787	0	0	0	0	0	40	0	0	0	0	1.054920168	1.521928095
788	0.737327189	0	0	0	0	16.58986175	0	31.15207373	45.06912442	5.253456221	1.756883479	2.534647083
789	3.535148314	0	0	0	0	0	0	4.06 -02	91.10117838	0.893945551	0.548631744	0.791508296
790	3.901437372	0	2.05338809	0	0	3.696098563	0	49.07597536	20.73921971	16.42710472	1.745510949	2.51823999
791	0	0	13.16270567	0	0	15.72212066	0	0.182815356	41.68190128	20.10968921	2.252442931	3.249588247
792	0.354609929	0	0	0	0	40.42553191	0	5.673758865	7.80141844	10.9929078	2.558818306	3.691594481
793	11.65048544	0	2.427184466	0	0	5.825242718	0	4.854368932	12.62135922	16.01941748	2.105031189	3.036918058
794	2.109300096	0	0.383509108	0	0	21.18887824	0	0.67114094	41.13135187	24.2569511	2.351551381	3.392571516
795	0	0	0	0	0	32.75862069	0	1.724137931	36.20689655	25.86206897	1.787553618	2.57889474
796	1.020408163	0	0	0	0	1.020408163	0	35.71428571	27.55102041	10.20408163	2.592861139	3.740707907
797	0	0	0	0	0	0	0	32.65306122	16.32653061	30.6122449	2.11223771	3.047314869
798	0	0	0	0	0	29.03225806	0	29.67741935	21.93548387	2.580645161	2.202070519	3.176916217
799	0.350877193	0	0	0	0	4.912280702	0	0	57.89473684	24.9122807	1.653133959	2.384968164
800	0	0	0	0	0	0	0	100	0	0	0.475921951	0.686610239
801	0.526315789	0	0	0	0	53.15789474	0	4.736842105	28.94736842	0.526315789	2.043106876	2.947580159
802	1.612903226	0	0	0	0	0.806451613	0	0	92.74193548	3.225806452	0.618418364	0.892189107
807	0.183150183	0	10.98901099	0	0	4.578754579	0	29.85347985	22.89377289	19.23076923	2.19155023	3.161738649
812	0.457665904	0	11.8993135	0	0	25.40045767	0	10.75514874	14.18764302	3.203661327	2.024756991	2.92110687
813	0	0	5	0	0	0	0	0	90.33333333	1.333333333	1.075246012	1.55125209

Appendix G: etric alues of New exico Stream Samples

BenSampID	IigoPct	rth ChiPct	PlecoPct	TanytPct	Tnyt ChiPct	TrichPct	CrCh ChiPct	Cr olPct	DipPct	EphemPct	Shan e	Shan
814	0	0	0	0	0	0.431034483	0	10.34482759	50	25.86206897	1.713726914	2.472385321
815	0	0	8.333333333	0	0	4.861111111	0	26.5625	28.99305556	12.67361111	2.082622637	3.00458935
816	0	0	0	0	0	0	0	0	0	0	0	0
817	0	0	36.36363636	0	0	0.454545455	0	0	45.45454545	6.363636364	1.728383234	2.49352992
818	1.612903226	0	0	0	0	0.806451613	0	0	92.74193548	3.225806452	0.618418364	0.892189107

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
23	0.503720835	0	0	0.520833333	0	0	2	0	1	50	0	36.31578947
24	1.02694583	0	0	3.80952381	4.126984127	0	11	0	1	34.6031746	1.595744681	0
25	0.880069071	0	0	6.492248062	9.69 -02	0	8	0	1	29.36046512	6.593406593	24.60567823
26	0.891435672	0	0	5.066079295	1.54185022	0	5	0	1	36.34361233	4.545454545	8.905852417
27	1.050085883	0	0	3.099173554	15.80578512	0	14	0	2	33.47107438	70.58823529	3.851640514
28	1.083482337	0	0	4.980079681	1.195219124	0	16	0	2	27.58964143	26.48514851	1.744186047
29	0.611628622	0	0	6.58436214	0	0	5	0	2	63.3744856	56.41025641	72.98578199
30	0.993626778	0	0	3.787878788	5.303030303	0	13	0	2	22.85353535	67.28395062	26.65684831
31	0.736815145	0	0	40.6462585	1.530612245	0	8	0	2	40.6462585	25	25.64935065
32	0.640077697	0	0	15.40616246	1.120448179	0	11	0	1	62.18487395	19.23076923	0
33	0.865124909	0	0	14.2461964	3.319502075	0	11	0	2	49.23928077	27.04918033	5.555555556
34	0.807971843	0	0	11.86440678	1.016949153	0	10	0	3	48.98305085	45.45454545	0.408997955
35	0.724776547	0	0	10.81081081	3.281853282	0	9	0	1	55.21235521	0	0.228832952
36	0.752233404	0	0	13.04909561	6.201550388	0	6	0	2	48.19121447	75.71428571	78.36134454
37	1.027520721	0	0	4.430379747	9.071729958	0	10	0	3	20.04219409	94.11764706	21.46596859
38	0.769806336	0	0	1.170568562	4.515050167	0	5	0	4	36.12040134	85.8974359	38.47695391
39	0.804058994	0	0	0.263504611	3.293807642	0	10	0	3	59.68379447	9.523809524	2.818991098
40	0.861667391	0	0	20.90909091	13.18181818	0	6	0	1	37.72727273	15.38461538	0
41	1.018529688	0	0	13.36206897	9.051724138	0	7	0	1	26.72413793	14.58333333	2.43902439
42	0.710351191	0	0	24.34367542	4.057279236	0	4	0	1	49.1646778	33.33333333	0.35335689
43	0.789215767	0	0	25.79365079	6.547619048	0	8	0	2	44.84126984	19.29824561	0
44	0.413913775	0	0	79.69151671	3.856041131	0	2	0	1	79.69151671	27.65957447	0
45	0.821720397	0	0	22.58064516	0.537634409	0	5	0	1	30.10752688	19.16666667	1.449275362
46	0.974617419	0	0	19.13104415	4.414856342	0	5	0	2	22.00420463	59.13370998	16.73913043
47	1.014673531	0	0	38.6996904	13.62229102	0	8	0	1	38.6996904	2.5	0
48	1.053853737	0	0	30.06329114	21.51898734	0	7	0	2	30.06329114	0	0
49	1.064242028	0	0	14.20765027	3.825136612	0	6	0	2	18.57923497	23.07692308	6.106870229
50	0.646997746	0	0	13.15789474	0	0	0	0	2	42.10526316	100	23.80952381
51	0.685633668	0	0	10.71428571	3.571428571	0	3	0	1	41.07142857	95.83333333	19.35483871
52	0.797962462	0	0	1.754385965	1.754385965	0	6	0	2	43.85964912	62.5	1.960784314
53	0.276434591	0	0	0	0	0	1	0	0	66.66666667	0	0
54	1.033832081	0	0	5.172413793	2.586206897	0	5	0	3	28.44827586	49.25373134	12.19512195
55	1.121206849	0	0	9.580838323	14.37125749	0	11	0	2	18.56287425	38.75	16.59192825
56	1.063146597	0	0	15.82491582	1.01010101	0	9	0	1	20.2020202	80	27.11864407
57	1.061058915	0	0	5.063291139	15.61181435	0	10	0	1	25.3164557	25.20325203	2.469135802
58	0.550751198	0	0	0	8.130081301	0	4	0	0	60.97560976	88.23529412	0
59	0.710518193	0	1.910828025	0.636942675	1.910828025	0	5	0	3	36.94267516	8.045977011	0
60	0.903053656	0	11.11111111	0	0.483091787	0	4	0	2	25.60386473	74.46808511	0.704225352
61	0.839423471	0	0	3.409090909	0	0	6	0	6	44.31818182	75	2.054794521
62	0.735133886	0	0	21.93877551	3.06122449	0	4	0	2	31.12244898	81.81818182	0
63	0.377327826	0	0	0.392156863	0.196078431	0	2	0	1	70	100	2.813299233
64	0.720726767	0	0	3.278688525	1.639344262	0	2	0	1	26.2295082	93.75	22.80701754
65	0.96630396	0.666666667	0	9.333333333	2.666666667	0	5	0	2	30	48.38709677	15
66	0.864169812	0	0	34.01759531	5.571847507	0	3	0	2	34.01759531	40.50632911	35.02538071
67	0.965436176	0	0	9.836065574	2.18579235	0	5	0	2	22.40437158	37.68844221	0

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
68	0.823034497	0	0	3.781512605	3.361344538	0	5	0	2	38.65546218	50	0
69	0.979864055	0	0	20.52117264	2.605863192	0	6	0	2	22.80130293	48.27586207	23.72093023
70	1.160161288	0	0	3.157894737	10	0	7	0	3	19.47368421	36.63366337	16.15384615
71	1.044167556	2.272727273	0	9.090909091	0.757575758	0	3	0	2	18.18181818	45.28301887	15.78947368
72	0.938913121	0	0	1.492537313	5.970149254	0	4	0	1	23.88059701	20.51282051	20.86956522
73	0.916534192	0	0	0.448430493	2.69058296	0	6	0	3	37.44394619	23.15789474	18.22916667
74	0.837106194	0	0	35.6223176	2.360515021	0	10	0	1	35.6223176	12.06896552	0
75	1.025112845	0	0	7.142857143	2.678571429	0	4	0	2	24.10714286	14.81481481	30.68181818
76	0.909221367	0	0	5.459770115	1.149425287	0	5	0	4	28.73563218	21.93548387	35.23131673
77	1.11788597	0	0	18.91348089	8.853118712	0	9	0	2	19.31589537	1.092896175	3.010033445
78	0.884071957	0	0	20.06688963	4.013377926	0	8	0	2	30.76923077	6.818181818	0
79	1.054543954	0	0	3.353658537	1.219512195	0	15	0	1	28.04878049	57.86163522	6.209150327
80	1.067070672	0	0	11.07142857	0.357142857	0	15	0	1	21.42857143	43.47826087	25.77777778
81	1.005755709	0	0	10.38251366	2.732240437	0	8	0	1	27.86885246	79.16666667	35.91549296
82	0.987039198	0	0	25.56818182	14.58333333	0	6	0	1	25.56818182	72.36842105	4.918032787
83	1.039999241	0	0	17.85714286	21.42857143	0	7	0	1	22.14285714	27.65957447	0
84	0.936156248	0	0	19.27710843	21.51462995	0	5	0	2	21.34251291	81.20300752	6.310679612
85	1.158842244	0	0	13.72282609	7.269021739	0	11	0	3	15.69293478	24.8	8.064516129
86	1.108541294	0	0	25.05720824	11.67048055	0	6	0	3	25.05720824	40.19607843	14.38356164
87	1.140326177	0	0	9.916367981	15.53166069	0	11	0	3	17.4432497	27.21893491	26.987061
88	1.263065432	0	0	4.708097928	6.026365348	0	14	0	3	12.99435028	22.34636872	11.35857461
89	0.970165159	0	0.490196078	32.51633987	24.50980392	0	12	0	3	32.51633987	32.46753247	4.661016949
90	1.019096653	0	0.643086817	4.394426581	41.15755627	0	10	0	4	40.72883173	23.56687898	0.746268657
91	1.075692972	0	0	2.702702703	28.27442827	0	10	0	3	28.06652807	39.75903614	2.054794521
92	1.04993368	0	3.101604278	10.48128342	10.37433155	0	13	0	3	21.92513369	27.52293578	0.60331825
93	0.717847589	0	0.324675325	40.74675325	37.82467532	0	10	0	4	40.74675325	63.63636364	3.636363636
94	0.856168444	0	2.133160957	12.28183581	25.98577893	0	10	0	6	36.58694247	47.82608696	0.130378096
95	0.968056046	0	1.298701299	12.12121212	4.761904762	0	10	0	4	37.66233766	0	1.204819277
96	0.913957695	0	0	26.76470588	2.058823529	0	5	0	4	30	26.86567164	45.53571429
97	0.824342599	0	0	23.99193548	2.016129032	0	4	0	2	36.89516129	52	55.79268293
98	0.70611971	0	0	4.788732394	3.098591549	0	4	0	3	50.14084507	81.08108108	0
99	1.036325661	0	0	6.060606061	7.459207459	0	9	0	2	31.35198135	9.589041096	10.54216867
100	0.653826737	0	0	61.03117506	1.918465228	0	6	0	3	61.03117506	45.36082474	44.40433213
101	0.858333487	0	0	5.797101449	7.729468599	0	3	0	1	46.85990338	12.5	62.17948718
102	0.468765312	0	0.346620451	1.64644714	1.64644714	0	2	0	3	73.3102253	11.11111111	47.77327935
103	0.685446452	0	0.136798906	5.198358413	2.872777018	0	1	0	2	43.9124487	0	47.89156627
104	0.715622373	0.214592275	0	26.39484979	1.287553648	0	0	0	1	40.55793991	0	30.88235294
105	0.717005427	0	0	7.537688442	2.512562814	0	3	0	1	51.75879397	79.16666667	6.172839506
106	1.010436672	0	2.012072435	30.58350101	19.31589537	0	12	0	2	30.58350101	4.098360656	0
107	1.172502102	0	0	16.4556962	24.6835443	0	15	0	3	23.89240506	15.78947368	0.638977636
108	1.226568162	0	0	14.97797357	18.50220264	0	16	0	3	17.91483113	36.20689655	0.751879699
109	0.987527632	0	1.663339987	36.72654691	3.659347971	0	15	0	3	36.72654691	29.41176471	0
110	0.80988041	0	1.226993865	28.52760736	21.47239264	0	11	0	3	31.44171779	16.66666667	3.623188406
111	0.987624222	0	1.967592593	9.722222222	29.28240741	0	10	0	3	29.05092593	16.98113208	0.701754386
112	0.713462085	0	7.262569832	62.01117318	2.793296089	0	6	0	3	62.01117318	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
113	1.024949243	0	0.187265918	18.25842697	8.895131086	0	15	0	3	32.58426966	6.132075472	6.395348837
114	0.631856784	0	0	52.25988701	2.189265537	0	11	0	4	52.25988701	81.28654971	2.551020408
115	1.165576344	0	0.318979266	22.80701754	3.987240829	0	10	0	3	22.80701754	29.22077922	2.108433735
116	1.00344555	0	7.58 -02	26.28787879	19.6969697	0	10	0	3	26.28787879	6.629834254	21.13821138
117	1.283836348	0	0.992063492	7.341269841	10.71428571	0	14	0	3	14.28571429	7.692307692	6.051873199
118	0.712291311	2.380952381	0	2.380952381	2.380952381	0	4	0	2	42.85714286	0	0
119	0.652267858	0	0	0.445434298	0.445434298	0	8	0	1	43.4298441	5.797101449	33.99503722
120	0.787511577	0	0	15.625	3.125	0	3	0	2	29.6875	0	15
121	0.545181612	0	0	11.40350877	0.877192982	0	4	0	1	62.28070175	19.31818182	4.188481675
122	0.837838832	0	0	0	0.418410042	0	8	0	1	36.82008368	19.44444444	22.17391304
123	1.08480447	0	0	9.239130435	10.39402174	0	10	0	3	29.77807971	45.03311258	3.629032258
124	0.91100246	0	0	0.460829493	1.382488479	0	7	0	2	29.03225806	24.59016393	2.75862069
125	1.033031584	0	0	3.968253968	5.555555556	0	7	0	1	16.66666667	26.25	2.150537634
126	0.971631112	0	0	17.08542714	0.251256281	0	6	0	3	27.13567839	34.46808511	2.127659574
127	0.790278594	0	0	13.40206186	1.546391753	0	2	0	2	42.78350515	14.70588235	3.305785124
128	0.980796058	0	0	9.659090909	22.15909091	0	7	0	3	25.56818182	11.53846154	45.91836735
129	0.77493283	0	0	3.042596349	3.042596349	0	6	0	2	47.87018256	56.73758865	61.45833333
130	0.770847599	0	0	3.584229391	0	0	5	0	2	50.53763441	74.66666667	60
131	0.594113901	0	0	4.771784232	0	0	5	0	2	43.98340249	100	0
132	1.103174568	0	0	22.04081633	1.428571429	0	12	0	2	22.04081633	32.84313725	3.273809524
133	1.134300661	0	0	13.5391924	8.313539192	0	12	0	2	19.47743468	42.70833333	4.710144928
134	0.971189884	0	0	23.41137124	8.361204013	0	11	0	1	23.41137124	51.49253731	0
135	1.148965824	0	0	7.012195122	23.17073171	0	10	0	3	14.63414634	34.21052632	20.93023256
136	1.103333457	0	0	14.37908497	0	0	12	0	2	16.99346405	54.83870968	0
137	1.094119278	0	0	24.8502994	5.838323353	0	15	0	2	24.8502994	40.19292605	2.380952381
138	0.903369328	0	0	10.35353535	1.01010101	0	6	0	4	46.46464646	86.57407407	3.606557377
139	1.172434089	0	0	7.262569832	5.586592179	0	9	0	3	18.7150838	49.28571429	11.15384615
140	1.093324903	0	0	9.195402299	10.72796935	0	10	0	3	29.62962963	45.28301887	3.625954198
141	0.880740534	0	0	1.754385965	1.169590643	0	2	0	3	32.16374269	28.125	18.58974359
142	0.877315481	0	0	0	8.974358974	0	1	0	2	24.35897436	43.18181818	6.382978723
143	0.503757385	0	0	1.52284264	0.169204738	0	3	0	2	52.96108291	46.15384615	37.56613757
144	0.474060747	0	0	37.2246696	0	0	1	0	1	40.74889868	98	0
145	0.849136676	0	0	5.194805195	0	0	2	0	2	19.91341991	32.28346457	16.27906977
146	0.549426305	0	0	3.194103194	0	0	3	0	2	53.31695332	1.224489796	1.591511936
147	0.767309825	0	0	20	0	0	4	0	2	36.66666667	29.44444444	4.390243902
148	0.799249852	0	0	0	0	0	2	0	1	31.57894737	11.11111111	23.07692308
149	0.587361493	0	0	12.64667536	5.606258149	0	2	0	2	64.01564537	35.55555556	85.24305556
150	0.918652523	0	0	3.153153153	1.801801802	0	9	0	1	37.38738739	91.20879121	15.88235294
151	0.921493366	0	0	10.01564945	4.381846635	0	10	0	2	39.74960876	58.63636364	1.520912548
152	1.09677393	0	0	13.85630499	12.53665689	0	10	0	2	19.94134897	32.02979516	2.825552826
153	0.772712912	0	0	23.5426009	0.149476831	0	7	0	2	36.77130045	37.15277778	0.108932462
154	0.896043675	0	0	28.37326608	35.24590164	0	12	0	3	34.67843632	28.85572139	7.293666027
155	1.185619013	0	4.615384615	9.349112426	8.75739645	0	12	0	2	13.60946746	57.21393035	1.025641026
156	1.202315686	0	3.132938188	9.314140559	13.63251482	0	14	0	3	17.10414903	61.32930514	9.473684211
157	1.147784711	0	1.505646173	7.528230866	19.07151819	0	8	0	4	17.44040151	50.33112583	3.448275862

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
158	0.596622506	0	0	0	0	0	2	0	0	33.33333333	45.45454545	0
159	0.846039058	0	0	1.333333333	1.333333333	0	5	0	2	24.44444444	16.66666667	25.46296296
160	1.070992597	0	0	0.64516129	4.838709677	0	11	0	3	19.35483871	42.37288136	0
161	0.866045663	0	0	1.704545455	0.568181818	0	6	0	2	30.68181818	19.64285714	21.08433735
162	0.718295219	0.740740741	0	0	2.222222222	0	2	0	1	44.44444444	8.24742268	3.174603175
163	1.104853206	0	2.712886209	8.364732479	8.66616428	0	7	0	4	19.96985682	4.175365344	29.90970655
164	0.956514551	0	0.577796121	10.60668593	5.36524969	0	9	0	4	28.2294676	16.66666667	35.51401869
165	0.887608237	0	0	3.626943005	41.70984456	0	6	0	3	41.70984456	84	9.615384615
166	1.147429654	0	0.37593985	6.766917293	18.04511278	0	11	0	5	24.06015038	31.16883117	0.821917808
167	1.172643892	0	0.684931507	5.251141553	10.2739726	0	6	0	3	12.55707763	91.66666667	9.745762712
168	1.00622173	0	0	12.07243461	36.82092555	0	11	0	2	36.21730382	6.299212598	11.40350877
169	1.184718097	0	0	3.112033195	5.601659751	0	14	0	3	18.67219917	45.13888889	10.14851485
170	0.971304365	0	0.107296137	14.27038627	29.61373391	0	11	0	2	28.00429185	82.75862069	1.272264631
171	0.622464329	0	0	71.25171939	0.962861073	0	15	0	4	71.25171939	22.3880597	2.747252747
172	1.112823389	0	0	2.617801047	1.047120419	0	11	0	2	19.89528796	5.952380952	2.325581395
173	1.007894845	0	0	0.414937759	6.639004149	0	8	0	3	28.63070539	11.27819549	4.166666667
174	0.371639177	0	0	13.01369863	0.684931507	0	3	0	1	75.34246575	2.654867257	0
175	0.618961317	0	0	36.03603604	1.801801802	0	1	0	2	36.03603604	0	44.44444444
176	0.469863038	0	0	2.279202279	0	0	4	0	1	56.6951567	94.76190476	7.860262009
177	0.606936469	0	0	8.415841584	0	0	8	0	2	54.45544554	9.665427509	24.45054945
178	0.865777154	0	0	3.694581281	5.172413793	0	8	0	2	27.83251232	81.88405797	0.374531835
179	1.145492308	0	0	1.153846154	19.61538462	0	12	0	2	18.46153846	10.15625	0.546448087
180	0.835920795	0	0	4.684317719	3.258655804	0	10	0	2	50.50916497	93.58490566	13.20224719
183	1.15504602	0	0	11.87904968	24.40604752	0	14	0	2	21.38228942	14.46540881	10.89494163
184	1.196193568	0	0	4.573170732	10.67073171	0	13	0	2	14.32926829	13.41463415	20.43478261
185	0.271677899	0	0	88.44221106	0	0	9	0	3	88.44221106	0	0
186	0.886477808	0	0	43.80466472	20.18950437	0	10	0	1	43.80466472	56.49717514	19.94818653
187	0.959753262	0	0	3.896103896	32.68398268	0	10	0	1	30.3030303	8.670520231	1.438848921
188	0.82103686	0	0	0	17.00680272	0	1	0	2	35.37414966	100	52.52525253
189	0.785188525	0	0	1.086956522	1.086956522	0	2	0	4	43.47826087	97.56097561	31.57894737
190	0.912511527	0	0	1	0.5	0	8	0	1	31	35.65891473	4.487179487
191	0.981233864	0	0	12.46612466	4.06504065	0	13	0	1	24.3902439	34.28571429	3.278688525
192	1.039268947	0	0	8.148148148	3.888888889	0	9	0	1	16.66666667	37.56613757	0
193	1.029534354	0	0	14.47028424	2.583979328	0	8	0	1	22.73901809	52.07100592	0.757575758
194	0.962454685	0	0	19.85111663	4.714640199	0	7	0	1	33.74689826	62.10045662	1.470588235
195	1.10656556	0	0	9.098862642	7.261592301	0	8	0	3	21.87226597	47.88029925	13.82113821
196	1.095630001	0	0	2.745512144	3.48468849	0	8	0	3	17.95142555	49.32432432	20.04716981
197	1.079413929	0	0	3.546099291	2.482269504	0	12	0	2	24.46808511	56.52173913	2.390438247
198	0.706006322	0	0	13.33333333	0.666666667	0	4	0	3	52.66666667	79	0
199	0.755946713	0	0	42.52491694	4.15282392	0	11	0	1	42.52491694	87.60330579	0
200	1.065077076	0	0.129533679	21.24352332	1.813471503	0	10	0	4	21.24352332	58.40336134	0
201	0.985315	0	0	1.318681319	10.32967033	0	11	0	2	25.27472527	22.58064516	0
202	0.794524605	0	0	6.796116505	3.398058252	0	5	0	2	41.74757282	20	6.077348066
203	0.620807228	0	0	6.25	0.757575758	0	4	0	2	61.36363636	12.24489796	68.06722689
204	0.761540369	0	0	10.27027027	2.432432432	0	6	0	3	44.86486486	84.21052632	54.24836601

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BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
205	0.593383799	0	0	3.562340967	0.763358779	0	3	0	1	66.92111959	38.46153846	76.67638484
206	0.885163358	0	0	8.560311284	2.983138781	0	6	0	4	38.26199741	63.5610766	2.533783784
207	0.956688752	0	0	10.22364217	9.744408946	0	6	0	2	29.39297125	52.32876712	0.45045045
208	0.140368797	0	0	94.22110553	0.502512563	0	1	0	1	94.22110553	100	0
209	0.925624823	0	0	24.8170326	45.04324684	0	11	0	1	27.14570858	40.90909091	10.71428571
210	0.688904232	0	0	4.775280899	1.123595506	0	1	0	1	60.95505618	72.91666667	67.38461538
211	0.934989062	0	0	14.64088398	0.552486188	0	2	0	3	28.45303867	93.10344828	17.25490196
212	0.827198159	0	0	12.61261261	0.900900901	0	2	0	2	35.13513514	88.0952381	44.82758621
213	0.667041351	2.395209581	1.19760479	1.19760479	2.395209581	0	0	0	3	52.09580838	100	6.796116505
214	0.97046203	0	0	5.376344086	15.91397849	0	6	0	1	23.65591398	83.33333333	30.11152416
215	0.679222496	3.859060403	0.167785235	15.26845638	0.503355705	0	3	0	2	44.79865772	13.48314607	58.04347826
216	0.830318208	0	0	22.60869565	6.956521739	0	3	0	3	26.08695652	75	75.36231884
217	0.719327131	0	0	3.773584906	5.370101597	0	5	0	1	43.83164006	98.30508475	54.90909091
218	0.832208385	5.806451613	0	3.440860215	2.580645161	0	0	0	3	36.55913978	95.67901235	50.74626866
219	1.231109354	0	0.823045267	17.69547325	13.78600823	0	14	0	2	17.69547325	12.5984252	12.5
220	1.091238662	0	0.432900433	2.597402597	25.54112554	0	8	0	5	24.67532468	40	8.108108108
221	1.096821657	0	0.149253731	13.58208955	18.95522388	0	11	0	3	18.65671642	5.325443787	4.947916667
222	1.050252719	0	7.39 -02	5.686853767	8.714918759	0	9	0	4	32.05317578	51.64835165	30.76142132
223	0.995728154	0	0	11.89634865	25.32391048	0	14	0	3	25.08833922	0	25.46583851
224	1.136585792	0	0	1.208459215	2.416918429	0	14	0	2	23.56495468	0	3.754266212
225	1.088522326	0	0	4.026845638	2.013422819	0	12	0	2	23.48993289	23.52941176	0
226	1.023281921	0	0	20.93959732	6.308724832	0	13	0	2	20.93959732	18.60465116	0
227	1.234192056	0	0.14619883	7.602339181	21.34502924	0	14	0	1	20.02923977	17.17171717	5.373831776
228	1.020945129	0.102145046	0	4.290091931	7.048008172	0	8	0	4	21.96118488	1.591511936	29.986053
229	1.030371249	0.966183575	0	18.84057971	3.8647343	0	5	0	6	21.73913043	5.514705882	5.398457584
230	1.012111987	0	0	11.28472222	3.819444444	0	12	0	1	23.61111111	0.578034682	0
231	1.17948483	0	0	4.155844156	0.25974026	0	13	0	1	15.32467532	26.27737226	13.9941691
232	1.279202535	0	0.224719101	4.269662921	6.741573034	0	19	0	2	18.42696629	28.72340426	2.272727273
233	1.250551505	0	0.145772595	2.915451895	10.64139942	0	19	0	3	17.05539359	16.36363636	5.18783542
234	0.596993757	0	0	1.769911504	5.309734513	0	1	0	1	64.60176991	73.33333333	24.13793103
235	0.632459113	0	0	12.5	0	0	1	0	1	54.16666667	92.85714286	11.76470588
236	1.008177571	0	0	6.88172043	2.365591398	0	8	0	1	18.70967742	42.46575342	0
237	1.016293245	0	0	3.267973856	6.274509804	0	14	0	1	33.46405229	5.555555556	0.44576523
238	1.235427802	0	0	12.13872832	3.179190751	0	17	0	3	13.00578035	18.22660099	20.87912088
239	0.619211855	0	0	15.57177616	1.703163017	0	5	0	2	52.55474453	86.73469388	0
240	1.230293076	0	0	11.40776699	21.3592233	0	10	0	3	11.40776699	24.81203008	6.19047619
241	0.975460759	0	0.229357798	5.504587156	8.486238532	0	8	0	4	37.3853211	75.81395349	11.88118812
242	0.994966933	0	0	4.646840149	33.64312268	0	10	0	3	28.2527881	17.1641791	6.451612903
243	1.230377467	0	0	14.55223881	11.94029851	0	8	0	2	14.55223881	25.3164557	4.575163399
244	1.054854764	0	0	7.580824972	6.688963211	0	12	0	2	18.28316611	49.84802432	8.028169014
245	1.060462044	0	0	7.589285714	6.696428571	0	13	0	2	18.30357143	49.84802432	8.039492243
246	1.01196921	0	0	17.26027397	20.2739726	0	10	0	2	20	17.70833333	4.494382022
247	0.41234981	0	0	78.55153203	0	0	6	0	1	78.55153203	26.92307692	2.898550725
248	0.88383465	0	0	45.56962025	18.01935964	0	10	0	2	45.56962025	30.64516129	11.37566138
249	1.183962618	0	0	28.98550725	2.173913043	0	18	0	4	28.98550725	34.39153439	9.230769231

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
250	1.03121041	0	0	18.53932584	2.247191011	0	9	0	2	23.59550562	30.76923077	5
252	0.857230677	0	0.696864111	30.66202091	0.348432056	0	3	0	3	30.66202091	17.33333333	34.09090909
253	0.932791526	0	0	6.56167979	2.099737533	0	6	0	2	27.82152231	66.22516556	36.1774744
254	0.999402493	0.137551582	0.275103164	26.5474553	8.528198074	0	13	0	3	26.5474553	71.76470588	1.069518717
255	0.918324293	0.268817204	0	21.50537634	2.150537634	0	3	0	5	33.33333333	11.36363636	59.33014354
256	0.567290299	0	0	33.77862595	1.335877863	0	0	0	5	33.77862595	0	30.76923077
257	0.905375465	0	0	10	1.481481481	0	2	0	4	31.85185185	0.970873786	31.35135135
258	0.989163923	0	0	15.63517915	8.469055375	0	3	0	3	20.19543974	83.80952381	2.564102564
259	0.956888533	0	0	13.72093023	5.348837209	0	9	0	2	24.65116279	23.63636364	0
260	1.094720302	0	0	14.98371336	10.09771987	0	7	0	3	28.66449511	69.29133858	3.243243243
261	1.17372788	0	0	22.18649518	14.46945338	0	9	0	4	22.18649518	39.6039604	0
262	1.029496517	0	0	5.555555556	1.068376068	0	15	0	4	33.54700855	36.81318681	12.45136187
263	1.171678941	0	0	3.225806452	4.838709677	0	10	0	2	16.12903226	42.02898551	4.72972973
264	0.93842975	0	0	7.784431138	4.790419162	0	6	0	1	34.13173653	57.57575758	3.546099291
265	0.910019549	0	0.295857988	26.92307692	9.171597633	0	7	0	3	26.92307692	54.21686747	0
266	0.720483937	0	0.862068966	50	2.586206897	0	1	0	2	50	75	2.5
267	1.004092906	0	0	16.52173913	26.95652174	0	1	0	5	26.95652174	96.875	17.07317073
268	1.007672707	0	4.872881356	1.271186441	14.19491525	0	1	0	5	22.03389831	35.33834586	12.82894737
269	1.048512463	0	5.263157895	10.52631579	24.21052632	0	1	0	3	20	23.33333333	12.76595745
270	1.133499893	2.173913043	10.43478261	8.695652174	1.739130435	0	2	0	5	20.43478261	22.44897959	14.08450704
271	0.994168211	4.580152672	0	15.26717557	4.198473282	0	1	0	5	22.90076336	38.70967742	2.873563218
272	0.60867647	0	1.162790698	41.86046512	20.93023256	0	0	0	3	41.86046512	0	0
273	0.863960997	0	0	1.538461538	27.69230769	0	1	0	2	27.69230769	87.5	13.04347826
274	0.889469485	0	2.620967742	5.040322581	44.95967742	0	9	0	3	43.34677419	6.451612903	0
275	1.004177595	0	0	8.768656716	5.037313433	0	10	0	5	27.98507463	76.71232877	0
276	1.201896918	0	0.104275287	11.36600626	13.13868613	0	10	0	8	20.64650678	24.19354839	12.07815275
277	1.164412652	0	0	9.847596717	21.33645955	0	7	0	5	21.21922626	10.70110701	9.219858156
278	0.812411277	0	0	1.694915254	12.99435028	0	6	0	1	33.33333333	9.722222222	0
279	1.075216741	0	0	9.440559441	18.53146853	0	3	0	3	22.72727273	16.66666667	16.04278075
280	1.058184897	0	0	2.314814815	34.25925926	0	4	0	4	23.61111111	21.31147541	14.9122807
281	0.994582651	0	0	0.975609756	14.14634146	0	4	0	3	25.36585366	57.53424658	34.89932886
282	0.708261113	0	0	4.710144928	1.811594203	0	2	0	4	47.10144928	21.21212121	0
283	0.387246564	0	0	75.16778523	0.67114094	0	0	0	2	75.16778523	100	44.44444444
284	0.837043825	0	1.234567901	0	0	0	5	0	2	26.54320988	48.8372093	22.87581699
285	0.935963654	0	0.158227848	1.107594937	33.86075949	0	12	0	2	33.06962025	13.23529412	1.812688822
286	0.648462244	0	0	1.351351351	2.702702703	0	2	0	2	56.75675676	92.85714286	24
287	0.650321047	0	0	2.272727273	4.545454545	0	4	0	2	55.3030303	80	25
288	0.877674098	0	0.512820513	2.051282051	2.051282051	0	8	0	1	38.46153846	0	5.434782609
289	1.057002844	0	0	8.26446281	2.479338843	0	7	0	2	23.96694215	0	0
290	1.03513735	0	0.137551582	24.2090784	5.777166437	0	9	0	2	25.99724897	14.0625	0
291	1.249784923	0	0	14.86486486	6.587837838	0	19	0	3	14.86486486	53.93258427	6.735751295
292	1.258222046	0	0.551470588	14.70588235	9.007352941	0	15	0	3	15.07352941	50.53763441	10.91954023
293	0.863303532	0	0	32.59423503	4.87804878	0	12	0	1	32.59423503	0	0
294	1.244036256	0	0.561797753	14.76725522	3.370786517	0	12	0	3	14.76725522	12.06225681	1.239157373
295	1.035794078	0	0	14.00264201	2.774108322	0	4	0	4	19.94715984	1.818181818	42.17081851

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
296	0.800937327	7.27 -02	0	7.888040712	4.034896401	0	10	0	6	51.94474736	2.298850575	73.99568035
297	0.871792928	0	0	1.172529313	7.370184255	0	10	0	1	41.37353434	4.035874439	0
298	1.087618039	0	0	13.90977444	0.37593985	0	13	0	1	19.17293233	8.139534884	23.42342342
299	1.129212558	0	0	8.504398827	2.93255132	0	14	0	1	24.04692082	14.63414634	13.49480969
300	1.176242915	0	0	3.116147309	1.133144476	0	15	0	1	17.28045326	38.19444444	7.590759076
301	1.121291453	0	0	1.020408163	6.12244898	0	10	0	2	20.40816327	12.5	2.994011976
302	0.72194802	0	0	0.99009901	3.96039604	0	4	0	2	51.48514851	91.22807018	15
303	0.929229057	0	0	1.724137931	13.79310345	0	6	0	1	32.75862069	79.16666667	13.51351351
304	0.930480789	0	0	4.280155642	32.29571984	0	9	0	3	31.90661479	40	9.322033898
305	1.054795357	0	0	0.555555556	2.222222222	0	11	0	1	36.11111111	11.42857143	7.142857143
306	1.069436142	0	0	0	7.843137255	0	5	0	0	21.56862745	40.74074074	2.222222222
307	1.076140709	0	0	11.04972376	0.368324125	0	12	0	4	22.6519337	41.86046512	0.967741935
308	0.797817324	0	0	0	56.96721311	0	2	0	2	51.2295082	11.94029851	47.10144928
309	1.083212644	0	0	3.424657534	6.164383562	0	7	0	2	25.34246575	35.80246914	2.479338843
310	0.91177676	0.986193294	0	8.284023669	3.747534517	0	8	0	2	28.79684418	27.77777778	16.98113208
311	1.070901317	0	0	11.5942029	2.898550725	0	8	0	3	15.94202899	45.83333333	10.90909091
312	0.607630905	0	0	4.736275565	0	0	4	0	5	41.33476857	0.514800515	3.811149033
313	0.626455922	0	0	2.164502165	0	0	4	0	3	41.12554113	1.052631579	3.611738149
314	0.772946046	0	0	43.48837209	0	0	3	0	6	43.48837209	74.20718816	15.60062402
315	0.749839506	0	0	22.81879195	0	0	3	0	3	36.77852349	84.56790123	31.99268739
316	0.67126441	0.168208579	0	2.270815812	1.513877208	0	3	0	7	57.35912532	0	66.01489758
317	1.042503139	0	0	4.347826087	0.483091787	0	4	0	3	26.08695652	60.43956044	25.97402597
318	1.041846891	0	0	16.51376147	0.917431193	0	4	0	3	16.51376147	25.58139535	21.79487179
319	0.666260369	0	0	50.69914299	0	0	4	0	5	50.69914299	64.05228758	18.06775408
320	0.710600247	0	0	47.38760632	0	0	2	0	4	47.38760632	78.35820896	12.4260355
321	0.361510016	0	0	4.761904762	57.14285714	0	0	0	2	57.14285714	0	0
322	0.445135136	0	0	21.21212121	51.51515152	0	0	0	2	51.51515152	0	0
323	0.761106233	0	0	8.888888889	4.444444444	0	1	0	3	46.66666667	100	80.76923077
324	0.914626953	0	0	30.5785124	9.090909091	0	1	0	6	30.5785124	62.5	60.97560976
325	0.682545673	0	0	3.225806452	6.451612903	0	0	0	5	54.83870968	14.28571429	82.92682927
326	0.54328117	0	3.448275862	5.363984674	9.578544061	0	0	0	4	67.04980843	15.38461538	93.08510638
327	1.014630463	0	0	2.071005917	1.479289941	0	8	0	4	28.99408284	23.14814815	17.1641791
328	0.336763482	0.917431193	0	22.01834862	0	0	0	0	3	73.39449541	0	0
329	0.531050288	0	0	0.968992248	9.69 -02	0	3	0	4	60.46511628	100	64.66321244
330	0.61751317	0	0	0.928289626	2.32 -02	0	2	0	5	61.26711534	16.21621622	9.691110587
331	0.95644292	0	0	14.57627119	4.406779661	0	6	0	3	25.59322034	91.72932331	40.82125604
332	1.146451622	0	0	17.38122827	21.08922364	0	5	0	3	17.38122827	49.33333333	21.6091954
333	0.728613451	0	0	0.778210117	3.112840467	0	3	0	2	47.08171206	15.09433962	64.70588235
334	0.797410142	0	0	3.986928105	1.568627451	0	8	0	3	38.69281046	31.3253012	82.73934312
335	0.791852688	0	5.076142132	0	48.98477157	0	5	0	0	48.98477157	97.5	42.30769231
336	0.554212375	0	0	45	0	0	4	0	2	45	85.71428571	0
337	0.690989493	0	0	33.52272727	0	0	4	0	1	40.34090909	83.52941176	10.43478261
338	0.560105376	0	0	29.58412098	0	0	5	0	4	49.24385633	98.67424242	4.753521127
339	0.791729794	0	0	13.06306306	0	0	4	0	4	41.44144144	97.18309859	15.42288557
340	0.748159523	0	0	36.08923885	0	0	4	0	6	36.08923885	17.10526316	7.52688172

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
341	0.747175264	0	0	47.48603352	0	0	2	0	4	47.48603352	0	11.76470588
342	0.514782938	0	0	60.61269147	0	0	3	0	2	60.61269147	30.6122449	7.142857143
343	0.772841314	0	0	36.09022556	0	0	5	0	3	36.09022556	12.08791209	13.77777778
344	0.687348142	0	0.124069479	19.47890819	1.364764268	0	4	0	2	50	97.81553398	17.27941176
345	1.200755355	0	0	12.77258567	0.934579439	0	13	0	2	16.19937695	13.48314607	0
346	1.070729573	0.816629547	0	17.81737194	8.53749072	0	11	0	1	17.81737194	83.69565217	20.4494382
347	1.062063414	0.204498978	0	4.08997955	10.0204499	0	13	0	4	31.69734151	35.32934132	10.43256997
348	1.175547085	0	0	16.64698937	1.298701299	0	15	0	3	16.64698937	41.41791045	10.81081081
349	1.203217468	0	0	3.7470726	1.170960187	0	17	0	3	20.84309133	42.38095238	0.261780105
350	1.052801897	0	0	33.28290469	0.302571861	0	14	0	2	33.28290469	25.80645161	0.930232558
351	0.601927241	0	0	67.12598425	0	0	6	0	1	67.12598425	19.6969697	0
352	1.053053252	0	0	6.666666667	0.533333333	0	9	0	1	18.4	13.18681319	0
353	0.907916522	0	0	13.94422311	2.788844622	0	8	0	2	28.28685259	82.45614035	4.402515723
354	0.716124394	0	0	4.255319149	0	0	4	0	1	42.55319149	85.29411765	7.058823529
355	0.348852445	0	0	1.162790698	1.162790698	0	4	0	1	82.55813953	30	0
356	0.708425553	0	0	5.693950178	0	0	4	0	1	39.85765125	46.96969697	0.383141762
357	1.0287691	0	0	1.458333333	5.833333333	0	13	0	2	26.25	35.40669856	0.699300699
358	0.803956099	0	0	4.435483871	0.806451613	0	7	0	2	34.27419355	69.02654867	2.145922747
359	0.982281288	0	0	1.682242991	4.672897196	0	10	0	1	31.02803738	19.04761905	7.581967213
360	0.935982153	0	0	1.851851852	3.395061728	0	8	0	1	28.08641975	41.86046512	3.020134228
361	0.987998735	0	0	4.888888889	1.333333333	0	8	0	1	30.44444444	25.75757576	4.819277108
362	1.063577157	0	0	27.84974093	2.849740933	0	12	0	2	27.84974093	30	0
363	0.917174542	0	0	13.5193133	2.360515021	0	13	0	2	35.19313305	0	0.571428571
364	0.897947464	0	0	22.58953168	0.550964187	0	11	0	2	27.27272727	54.09836066	0
365	0.738660814	0	0	49.5890411	2.922374429	0	10	0	2	49.5890411	37.11340206	0
366	0.901327297	0	0	2.597402597	1.298701299	0	5	0	2	28.57142857	44.62809917	1.860465116
367	0.891439056	0	0	25.58139535	3.720930233	0	6	0	1	30.69767442	58.40707965	6.52173913
368	0.891681503	0	0	5.660377358	0	0	5	0	1	36.79245283	62.06896552	3.333333333
369	0.721561109	0	5.73 -02	1.777522936	18.00458716	0	2	0	3	41.57110092	71.56959526	8.609865471
370	0.893862694	0.492610837	0	3.9408867	2.463054187	0	3	0	3	34.48275862	25.98425197	18.29268293
371	0.922443128	0	0	5.454545455	5.454545455	0	6	0	1	35.81818182	19.59910913	6.066945607
372	0.751119884	2.184466019	0	45.06472492	0.566343042	0	3	0	5	45.06472492	75.2362949	2.872531418
373	0.969468827	0	0	9.202453988	4.601226994	0	5	0	3	30.67484663	25.94339623	7.894736842
374	0.688450967	11.16504854	0.315533981	22.54854369	7.28 -02	0	3	0	4	32.74271845	65.95744681	94.4016795
375	0.804463606	0	0	1.013171226	50.75987842	0	9	0	2	50.75987842	47.65625	6.326034063
376	0.723254472	0	0	44.81132075	2.358490566	0	4	0	1	44.81132075	12.96296296	1.020408163
377	0.944052461	0	0	27.10280374	0.934579439	0	5	0	2	27.10280374	16.16161616	5.405405405
378	0.947603962	0	0	35.24904215	9.961685824	0	5	0	1	35.24904215	24.13793103	7.142857143
380	0.700151635	0	0	19.01840491	0.613496933	0	3	0	3	47.2392638	71.17117117	3.25203252
381	0.792570501	0.330033003	0.165016502	4.290429043	3.135313531	0	2	0	5	40.4290429	95	63.75
383	0.937257083	0	0	27.43902439	6.097560976	0	2	0	4	27.43902439	83.01886792	8.988764045
384	0.948550909	0	0	27.25225225	2.927927928	0	2	0	2	27.25225225	69.35483871	29.73977695
385	0.716982666	0	0	11.82795699	0.716845878	0	2	0	2	49.10394265	22.3880597	0.460829493
386	0.639420493	0	0	58.73015873	0	0	4	0	1	58.73015873	23.52941176	4.545454545
387	0.809205405	0	0	18.07228916	3.614457831	0	3	0	1	34.93975904	12.12121212	44.61538462

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
388	0.281927155	0	0	12.03007519	0	0	1	0	1	81.20300752	94.73684211	2.564102564
389	0.618469811	0	0	35.45454545	0	0	2	0	2	35.45454545	0	0
390	0.925883539	4.6875	8.4375	11.5625	0.3125	0	0	0	7	33.4375	100	33.73493976
391	0.776658894	0	0	36.17886179	1.219512195	0	1	0	3	36.17886179	54.7826087	10.07751938
392	0.543304415	0	0	3.125	19.79166667	0	0	0	2	66.66666667	100	0
393	0.570467606	0	0	4.942339374	6.26029654	0	3	0	3	59.63756178	95.3271028	0
394	0.665219332	0	0	1.125	2.875	0	11	0	3	58.25	25.390625	0
396	0.229879123	0	0	0.668449198	3.609625668	0	2	0	3	88.23529412	100	0
397	0.768993563	0	0	49.02953586	9.367088608	0	6	0	2	49.02953586	62.04379562	14.54138702
398	1.001644473	0	0	8.208092486	26.24277457	0	8	0	2	24.85549133	58.42105263	24.39926063
399	0.521061452	0	0	4.555808656	0	0	3	0	1	56.2642369	91.99255121	30.57553957
400	0.911556972	0	0	21.90635452	10.86956522	0	5	0	1	22.40802676	72.43243243	29.89690722
401	0.842227219	0.692041522	0	7.266435986	4.152249135	0	5	0	2	43.25259516	14.45086705	6.072874494
402	0.848704707	0.168350168	0	23.73737374	2.861952862	0	4	0	3	23.90572391	19.26229508	33.8902148
403	0.839169756	0.643776824	0	17.8111588	0.965665236	0	3	0	3	26.28755365	37.6744186	35.87115666
404	0.824363538	0	0.16025641	10.57692308	9.935897436	0	3	0	2	26.76282051	43.31210191	26.02459016
405	0.726951435	0	0	11.33144476	17.8470255	0	3	0	3	48.15864023	2.43902439	10.6122449
406	0.900947466	0	0	2.197802198	17.58241758	0	10	0	2	32.23443223	69.64285714	3.686635945
407	0.979583146	0	0	1.496259352	27.18204489	0	7	0	1	24.43890274	17.88617886	2.272727273
408	0.866927543	0.188323917	0	1.506591337	5.461393597	0	7	0	3	47.08097928	26.86567164	15.78947368
409	0.952279722	0	0	0.578034682	16.76300578	0	7	0	2	23.41040462	23.72881356	0.502512563
410	1.181613817	0	0	4.6875	6.770833333	0	10	0	2	18.75	57.14285714	16.77419355
411	1.028183621	0	0	10.2739726	5.136986301	0	10	0	2	19.52054795	31.91489362	0.826446281
412	0.509169094	0	0.161030596	61.19162641	1.771336554	0	1	0	5	61.19162641	4.285714286	0
413	0.849868849	0	0	30.91603053	4.580152672	0	5	0	3	30.91603053	15.73033708	23.52941176
414	0.985810186	0.251256281	11.05527638	3.266331658	31.65829146	0	8	0	4	31.40703518	23.07692308	8.421052632
415	0.784704627	0	0	8.607198748	7.198748044	0	6	0	1	45.69640063	82.48175182	67.88154897
416	0.918123354	0	0.591715976	25.44378698	8.08678501	0	6	0	3	30.96646943	28.37837838	60.61776062
417	0.724317909	34.54545455	9.57 -02	13.77990431	18.85167464	0	1	0	5	34.54545455	100	12
418	0.832031702	0	0	28.38589981	12.80148423	0	6	0	3	28.38589981	17.77777778	35.52631579
419	0.652089222	0	0.347826087	31.65217391	48	0	5	0	5	48	3.174603175	3.03030303
420	0.811842644	0	0	1.807228916	30.92369478	0	4	0	1	30.92369478	92.38095238	39.49275362
421	0.70276169	0	0	17.79497099	0.773694391	0	5	0	3	38.39458414	100	56.15275813
422	0.794784629	0	0	15.17509728	0.389105058	0	2	0	3	32.29571984	76	44.14893617
423	0.74733706	0	0	5.374823197	2.404526167	0	1	0	6	47.94908062	95.23809524	1.666666667
424	0.286198539	0	0	0.907590759	88.69636964	0	7	0	5	88.36633663	50	8.536585366
425	0.763663176	0	0	7.093425606	24.39446367	0	7	0	2	38.58131488	99.51456311	3.908794788
426	1.097956222	0	0	10.63348416	1.131221719	0	12	0	1	26.47058824	16.54411765	3.551912568
427	0.94772841	0	0.481927711	20	23.61445783	0	5	0	2	23.61445783	100	45.08196721
428	1.162423726	0	0	3.178484108	23.22738386	0	6	0	1	14.66992665	38.46153846	17.88617886
429	1.151301104	0	0	6.934306569	19.89051095	0	5	0	4	13.68613139	53.95683453	15.6462585
431	0.809237159	0	0	12.5	2.205882353	0	1	0	2	33.82352941	70.76923077	34.34343434
433	1.064299459	0	0	14.15929204	4.867256637	0	5	0	3	19.46902655	63.63636364	43.65079365
434	0.843606312	0	1.125	33	8	0	4	0	4	33	70.11494253	45.65992866
435	0.952370147	0	0	4.545454545	1.298701299	0	5	0	3	33.11688312	54.83870968	37.77777778

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436	0.868838399	0	0	1.666666667	1.666666667	0	5	0	2	33.66666667	100	38.11320755
437	0.844151125	0	0	0	0	0	2	0	1	27.36842105	71.42857143	30.58823529
438	0.982678597	0	0	4.12979351	5.899705015	0	9	0	2	25.66371681	75	25.30120482
439	0.992842451	0	0	6.862745098	5.882352941	0	9	0	1	34.31372549	54.16666667	43.75
440	0.666770746	0	0	1.351351351	7.567567568	0	2	0	2	55.40540541	60	24.05063291
441	0.76427424	0	0	0.970873786	3.883495146	0	3	0	1	47.57281553	57.89473684	51.57894737
442	0.719713045	0	0	10.44386423	0	0	0	0	4	31.46214099	100	47.81746032
443	0.714799261	0	0	37.09677419	0	0	0	0	3	37.09677419	92.59259259	6.818181818
444	0.39425659	0	0	69.31911403	8.20 -02	0	0	0	2	69.31911403	98.4375	1.449275362
445	0.169393099	0	0	10.09483022	0.122361578	0	0	0	4	89.04863873	0	0
446	0.63036182	0	0	19.17808219	6.849315068	0	2	0	5	57.19178082	86.52849741	1.470588235
447	0.789993249	0	0	15.2173913	0.869565217	0	2	0	4	38.69565217	57.92682927	3.468208092
448	0.924734493	0	0	3.65535248	7.832898172	0	3	0	3	32.11488251	13.69863014	40.72847682
450	1.103513125	0	0	2.620087336	5.240174672	0	5	0	6	23.58078603	38.13559322	28.72340426
451	1.054230161	0	0	0.589390963	8.84086444	0	3	0	5	27.11198428	17.40614334	21.02689487
452	0.965327464	0	0	1.715686275	1.225490196	0	6	0	5	27.20588235	27.14932127	44.33198381
453	0.847292693	0	0	8.595387841	0.419287212	0	2	0	2	34.38155136	77.38693467	41.94373402
454	0.824065762	0	0	8.045977011	0.287356322	0	2	0	4	34.1954023	83.93782383	32.52595156
455	0.621217527	0	0	3.664921466	0.785340314	0	2	0	2	45.28795812	91.07142857	49.85590778
456	0.593369164	0	0	1.058201058	1.058201058	0	3	0	2	39.15343915	96.1038961	2.803738318
457	0.88069192	0	0	5.747126437	0	0	3	0	2	39.08045977	77.27272727	21.62162162
458	1.006174965	1.825293351	0	2.477183833	2.477183833	0	0	0	6	24.64146023	53.76884422	1.344086022
459	0.372193198	67.41293532	0	0	0	0	0	0	1	67.41293532	100	0
460	0.751476285	0.440528634	0	7.04845815	0	0	0	0	4	37.00440529	65.85365854	52.87356322
461	0.804382066	0	0	15.60283688	1.418439716	0	0	0	3	26.24113475	61.9047619	46.83544304
462	0.854945857	0	0	23.07692308	9.89010989	0	1	0	2	30.76923077	81.39534884	22.80701754
463	0.729518552	0	0	13.7254902	4.901960784	0	1	0	3	50	54.54545455	65.38461538
464	0.950930951	0	0	13.13131313	2.693602694	0	5	0	5	30.63973064	28.17679558	5.907172996
465	0.849617946	0	0	17.6369863	2.054794521	0	2	0	1	29.28082192	44.52054795	37.91574279
466	1.095921935	0	0	5.048409405	20.53941909	0	11	0	6	20.33195021	36	32.86516854
467	0.708864544	0	0	61.61710037	0	0	11	0	1	61.61710037	55.29411765	12.67605634
468	0.967175414	0	0	0.643086817	0.643086817	0	9	0	2	25.08038585	56.93430657	4.195804196
469	0.530566282	0	0	0.877192982	0	0	2	0	2	44.73684211	98	47.22222222
470	0.61446551	0	0	3.333333333	0	0	5	0	1	61.11111111	76.38888889	7.228915663
471	0.88047604	0	0	8	0	0	8	0	3	43	64.17910448	5.952380952
472	0.866778092	0.146627566	0.146627566	20.6744868	1.319648094	0	1	0	7	33.87096774	29.35779817	0.235849057
473	0.709997362	0	0.414507772	18.44559585	0.310880829	0	1	0	6	48.60103627	77.38693467	4
474	0.949260389	0.110619469	0	25.77433628	0.774336283	0	2	0	5	25.77433628	64.22764228	1.70212766
475	0.769866843	0	0	34.50854701	0.747863248	0	5	0	3	34.50854701	95.39473684	1.736111111
476	0.872197276	0	0	43.8752784	3.118040089	0	3	0	5	43.8752784	24.24242424	3.804347826
477	0.794418746	0	0.165016502	46.69966997	2.97029703	0	3	0	4	46.69966997	31.65467626	15.38461538
478	0.589517321	2.777777778	2.777777778	0	2.777777778	0	1	0	0	61.11111111	100	75.86206897
479	0.830859305	0	0	1.746724891	3.493449782	0	1	0	1	30.13100437	58.87096774	8.965517241
480	0.873396501	0	0	3.053435115	3.435114504	0	0	0	3	31.29770992	81.18811881	23.48484848
481	0.74551989	0	0	1.069518717	6.951871658	0	4	0	2	47.05882353	75.86206897	18.98734177

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482	0.846480923	0.526315789	0	5.263157895	9.473684211	0	1	0	2	29.47368421	38.88888889	6.862745098
483	0.899402781	0.398406375	0	7.96812749	7.96812749	0	1	0	1	28.28685259	42.85714286	34.29951691
484	0.840481479	0.358422939	0	7.168458781	7.52688172	0	2	0	1	37.6344086	70.79646018	47.08520179
485	0.84016033	0	0	4.975124378	8.457711443	0	1	0	1	44.7761194	28.84615385	54.21686747
486	0.746223899	0	0	1.706484642	16.89419795	0	7	0	2	53.58361775	18.60465116	1.366742597
487	0.569245563	0	0	4.494382022	9.238451935	0	7	0	3	70.03745318	42.10526316	1.940298507
488	0.848282573	0	0	5.454545455	7.272727273	0	8	0	1	47.27272727	31.48148148	13.12217195
489	1.065354886	0	0	3.514376997	14.05750799	0	10	0	2	20.76677316	69.23076923	24.88262911
490	0.625486004	0	0	18.75	0	0	0	0	2	50	100	20
491	0.954678446	0	0	7.407407407	3.703703704	0	1	0	2	29.62962963	42.85714286	44.44444444
492	0.793472697	0	0	11.62790698	2.325581395	0	2	0	2	34.88372093	88.23529412	37.5
493	0.865909177	0	0	12.05882353	16.76470588	0	6	0	1	34.11764706	95.08196721	21.14537445
494	0.884098594	0	0	4.011461318	25.50143266	0	2	0	1	25.50143266	42.85714286	23.33333333
495	0.985280228	0	0	4.225352113	10.21126761	0	4	0	3	24.29577465	13.58024691	50.43103448
496	0.854139858	0	0	3.164556962	2.848101266	0	5	0	3	40.18987342	69.04761905	48.31460674
497	0.727630611	0.27173913	0	4.891304348	61.41304348	0	9	0	3	61.41304348	12.5	39.81481481
498	1.006838098	0	0	4.777070064	26.75159236	0	9	0	2	26.11464968	64.51612903	4.812834225
499	1.091631796	0	0	3.780068729	16.83848797	0	6	0	2	28.86597938	22.44897959	22.27488152
500	0.925602157	0	0	0.751879699	13.15789474	0	1	0	2	26.31578947	27.27272727	52.60663507
501	1.077263016	0	0	7.357859532	4.013377926	0	6	0	2	19.73244147	97.77777778	22.2826087
502	0.899563934	0	0	0.985221675	8.866995074	0	8	0	1	41.37931034	35.71428571	72.4137931
503	0.717684114	0	0	2.419354839	1.209677419	0	5	0	1	41.12903226	14.70588235	80.68669528
504	1.084766979	0	0	10.56603774	1.886792453	0	7	0	3	21.88679245	0	12.70718232
505	0.905556062	0	0	1.324503311	13.57615894	0	9	0	1	33.11258278	0	48.1981982
506	0.724549884	0	0	2.949852507	1.769911504	0	2	0	3	42.77286136	5.882352941	53.125
507	0.96453926	0	0	0	18.51851852	0	6	0	1	22.59259259	2.5	56.54450262
508	1.031836083	0	0	1.689189189	1.013513514	0	8	0	2	27.02702703	4.411764706	45.51971326
509	1.102877109	0	0	0.675675676	7.094594595	0	10	0	1	32.09459459	2	40.38461538
510	0.870812671	0	0	1.291989664	13.17829457	0	7	0	2	43.15245478	2	65.3250774
511	0.957530652	0	0	2.898550725	0.579710145	0	4	0	3	40	16.12903226	65.2014652
512	0.954595364	0	0	3.169014085	3.169014085	0	7	0	1	27.11267606	0	30.62015504
513	0.732709825	0	0	5.128205128	0.366300366	0	5	0	1	43.22344322	11.11111111	80.4
514	1.063671417	0	0	1.277955272	1.916932907	0	12	0	2	30.99041534	6.666666667	3.157894737
515	0.892488698	0	0	14.5631068	6.796116505	0	6	0	2	27.18446602	0	0
516	0.964020996	0	0.235478807	33.75196232	6.200941915	0	11	0	3	33.75196232	38.4057971	0
517	1.183198343	0	1.433691756	3.94265233	12.18637993	0	10	0	4	18.63799283	12.63157895	18.57923497
518	1.199599131	0	2.368421053	0.526315789	3.421052632	0	8	0	6	14.73684211	2.666666667	15
519	1.005989849	0	0.355871886	2.491103203	5.338078292	0	4	0	4	20.99644128	16.92307692	53.88601036
520	0.682768212	0	2.027027027	0.675675676	52.36486486	0	6	0	2	52.36486486	84.50704225	2.727272727
521	0.978516936	0	0.326797386	3.594771242	15.35947712	0	4	0	5	29.73856209	5.494505495	44.28571429
522	1.068075154	0	0	15.85365854	4.268292683	0	9	0	3	21.34146341	28.02547771	16.32653061
523	0.518967336	0	0	70	5.882352941	0	3	0	3	70	0	0
524	0.838176289	0	0.204081633	0	5.510204082	0	4	0	2	34.08163265	10.56603774	36.80555556
525	1.28251255	0	0.327868852	1.31147541	4.918032787	0	7	0	6	13.44262295	6.542056075	10.54852321
526	1.163245868	0	0	1.846965699	17.15039578	0	6	0	5	17.15039578	17.91044776	21.81069959

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527	1.192599961	0	0.331125828	8.940397351	11.9205298	0	10	0	2	20.52980132	22.4137931	28.18181818
528	1.207406665	0	0.630914826	0.315457413	9.779179811	0	8	0	3	12.93375394	10.52631579	13.61702128
529	0.659503139	0	0	6.441717791	1.226993865	0	2	0	2	43.55828221	17.30769231	64.38356164
530	0.170408111	0	0	0	0	0	0	0	1	91.11111111	100	0
531	0.975378174	0	0	1.18694362	30.86053412	0	9	0	1	24.62908012	19.86754967	0
532	0.965854639	0	0	3.249097473	35.7400722	0	8	0	3	31.76895307	62.85714286	0
533	0.737666455	0	0	24.41471572	4.682274247	0	10	0	2	50.8361204	84.91620112	0
534	0.692689576	0	0	51.47679325	0.421940928	0	4	0	1	51.47679325	19.14893617	5.357142857
535	1.036411642	0	0	23.4741784	1.877934272	0	12	0	2	23.4741784	43.43434343	0
536	1.003784645	0	0	24.11764706	1.764705882	0	2	0	4	24.11764706	20.77922078	5.882352941
537	0.701839681	0	0	13.25301205	1.807228916	0	3	0	3	57.8313253	95.04950495	9.128630705
538	0.720159854	2.016129032	0	50.40322581	0	0	1	0	5	50.40322581	46.15384615	0
539	0.528013501	0	0	72.06477733	0.809716599	0	2	0	4	72.06477733	41.17647059	0
540	0.831843651	0	0	6.976744186	4.651162791	0	1	0	3	39.53488372	30.76923077	10.95890411
541	0.87605789	0	0	23.35526316	5.592105263	0	4	0	2	35.85526316	72.72727273	64.24581006
542	1.170484294	0	0	9.230769231	12.30769231	0	11	0	3	19.61538462	77.5862069	0
543	1.023796001	0	0	4.815864023	3.966005666	0	10	0	4	36.82719547	77.31958763	0
544	0.708385803	0	4.153354633	15.01597444	0.958466454	0	3	0	2	43.13099042	16.66666667	0
545	0.974644332	0	4.938271605	8.230452675	12.34567901	0	4	0	3	25.92592593	34.375	4.861111111
546	0.85347338	0	0	5.882352941	6.535947712	0	6	0	2	51.30718954	23.1884058	1.937984496
547	1.004535084	0	0.324675325	11.68831169	18.50649351	0	11	0	1	31.81818182	50	51.79487179
548	0.529338418	0	0	5.089820359	1.19760479	0	2	0	3	65.86826347	94.42060086	15.65836299
549	0.731708245	0	0	19.51612903	2.096774194	0	8	0	3	42.74193548	31.043257	6.382978723
550	0.730606122	0	0	23.55099046	0.146735143	0	7	0	3	30.74101247	46.29834254	1.458333333
551	0.665913972	0	0	7.193732194	1.851851852	0	7	0	2	41.66666667	91.69278997	41.85094185
552	0.762987784	0	0	6.184448463	6.473779385	0	9	0	2	35.66003617	85.44194107	41.84559159
553	1.141234211	0	0	7.23847298	17.9474467	0	12	0	3	17.9474467	31.96721311	7.816091954
554	0.666163529	0	0	8.916586769	1.62991371	0	7	0	2	51.39022052	3.634751773	0.842911877
555	0.948415995	0	0	30.90663058	2.110960758	0	11	0	4	30.90663058	9.753593429	0.727513228
556	1.105709152	0	0	11.13871636	1.242236025	0	10	0	2	14.16149068	30.16270338	0
558	0.90732523	0	0	30.94890511	0.583941606	0	7	0	4	30.94890511	44.90161002	2.02020202
559	0.752541993	0	0	8.700209644	1.100628931	0	9	0	5	41.87631027	10.76458753	1.637197119
560	0.80820042	6.03 -02	0	35.83710407	0.4826546	0	9	0	3	35.83710407	8.429752066	1.951219512
561	1.12476377	0	0.168137873	17.57040773	3.026481715	0	15	0	4	17.57040773	21.85863874	5.889646621
562	0.159843407	0	0	1.97044335	0	0	4	0	2	93.59605911	100	0
563	0.479466189	0	0	1.689189189	4.391891892	0	3	0	5	77.36486486	100	0.81300813
564	0.867584523	0	0	20.33898305	16.94915254	0	1	0	8	38.98305085	80.70175439	0
565	0.825519324	0	0	39.26380368	8.588957055	0	1	0	6	39.26380368	73.40425532	2.06185567
566	0.178111254	0	0	0	14.28571429	0	0	0	0	85.71428571	100	0
567	0.85653598	0	0	27.27272727	0	0	0	0	3	27.27272727	50	33.33333333
568	1.044670689	0	0	1.408450704	18.30985915	0	7	0	2	19.24882629	18.33333333	0
569	1.098021495	0	0	0	12.71676301	0	7	0	0	19.65317919	56.33802817	8.391608392
570	1.043740142	0	0.348432056	5.574912892	8.710801394	0	6	0	3	38.67595819	40.74074074	10.40723982
571	0.829866487	0	0	2.649006623	9.602649007	0	6	0	3	50	54.54545455	60.15936255
572	1.037771833	0	0	4.522613065	9.045226131	0	5	0	3	28.64321608	77.41935484	36.41975309

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
573	1.151575993	0.434782609	4.782608696	13.91304348	23.47826087	0	5	0	5	18.69565217	43.47826087	4.225352113
574	0.56979777	0	0	0	0	0	9	0	2	67.03703704	5.084745763	69.61538462
575	1.003985926	0	1.6	18.8	2	0	4	0	3	24	74.41860465	23.93162393
576	0.756038093	0	0	40.97744361	0	0	1	0	3	40.97744361	22.10526316	12.23021583
577	0.40181375	0	0	9.271523179	0	0	4	0	4	76.1589404	97.87234043	0.819672131
578	0.432776783	0	0	0	0	0	3	0	0	72.98850575	90.71428571	14.36781609
579	0.584256233	0	0	8.298755187	0	0	4	0	1	62.2406639	87.71929825	16.89497717
580	0.952438797	0	0	8.552631579	1.315789474	0	2	0	5	27.63157895	85.71428571	41.17647059
581	0.566676405	0	0	25.64102564	0	0	1	0	2	52.13675214	1.612903226	19.23076923
582	1.025626657	0	0	12.61829653	0.94637224	0	11	0	5	31.54574132	18.44660194	40.07936508
583	0.843269294	0	0	5.572755418	1.857585139	0	6	0	4	31.57894737	6.875	35.54006969
584	0.955926832	0	0	4.672897196	4.672897196	0	5	0	1	38.31775701	50	47.12643678
585	1.154065542	0	0	21.61290323	0.64516129	0	7	0	6	21.61290323	47.95918367	32.38636364
586	1.107743686	0	0	16.40625	0.390625	0	8	0	4	21.09375	40.42553191	31.25
587	0.646069143	0	0	7.446808511	0.531914894	0	6	0	2	64.36170213	1.408450704	1.886792453
588	0.973770352	0	0	0	0	0	5	0	2	24.41314554	27.5	27.08333333
589	0.541010784	0	0	2.43902439	67.07317073	0	5	0	2	67.07317073	28.57142857	0
590	1.020348215	0	0	8.333333333	17.85714286	0	5	0	4	16.66666667	64	0
591	0.554608932	0	0	42.85714286	0	0	2	0	1	42.85714286	0	0
592	0.488162512	0	0	68.75	12.5	0	2	0	2	68.75	0	0
593	1.121339923	0	0	10.08064516	15.72580645	0	9	0	1	16.53225806	59.84251969	0
594	1.121339923	0	0	10.08064516	15.72580645	0	9	0	1	16.53225806	59.84251969	0
595	0.895919353	0	0	37.5	9.482758621	0	8	0	1	37.5	79.71014493	4.587155963
596	0.804832858	0	0	14.51612903	37.09677419	0	4	0	1	36.69354839	10.34482759	5.93220339
597	0.861568538	0	0	24.62121212	35.60606061	0	6	0	1	35.60606061	30.23255814	18.36734694
598	1.059347097	0	0	9.42408377	20.41884817	0	8	0	2	28.27225131	41.66666667	1.639344262
599	1.060036435	0	0	3.2	22.4	0	2	0	4	29.6	70	18.75
600	1.172018761	0	0	10	11.25	0	4	0	7	17.08333333	43.29896907	12.17391304
601	0.661410982	0	0	11.11111111	0	0	3	0	1	33.33333333	75	0
602	0.907846749	0	0	2.857142857	6.12244898	0	4	0	1	50.20408163	14.89361702	64.61538462
603	0.865524743	0	0	6.632653061	13.7755102	0	0	0	4	33.16326531	100	0
604	0.536225434	0	0	6	0.4	0	3	0	1	44.4	0.909090909	0
605	0.889489677	0	0	7.883817427	3.319502075	0	3	0	1	41.90871369	3.937007874	19.54022989
606	0.902309058	0	0	12	8	0	0	0	3	28	0	6.25
607	1.082333294	0	0	14.28571429	18.04511278	0	9	0	1	14.28571429	8.695652174	0
608	0.769842142	0	0	49.23664122	7.633587786	0	4	0	6	49.23664122	4.225352113	0
609	1.047776376	0	0	15.77181208	23.48993289	0	4	0	4	22.14765101	7.042253521	49.01960784
610	0.896393433	0	0	7.142857143	4.201680672	0	6	0	5	45.37815126	10.17964072	0
611	1.006788571	0	0	3.225806452	20.73732719	0	6	0	1	20.2764977	37.5	0
612	0.907450851	0	0	2.702702703	10.81081081	0	4	0	4	28.82882883	3.759398496	1.290322581
613	0.867719428	0	0	7.594936709	14.34599156	0	4	0	2	44.30379747	6.779661017	5.839416058
614	1.09497456	0	0	12.28813559	35.16949153	0	7	0	3	22.88135593	87.5	0
615	1.02364647	0	0	20.2764977	32.71889401	0	8	0	2	25.34562212	65.30612245	24.7311828
616	0.940198918	0	0	6.666666667	53.82716049	0	9	0	2	39.25925926	8.510638298	16.66666667
617	0.888315152	0	0	24.01315789	5.592105263	0	3	0	3	29.93421053	96.61016949	47.52475248

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
618	0.765553442	0	0	51.87165775	4.812834225	0	1	0	2	51.87165775	73.17073171	29.28571429
619	1.110511634	0	0	19.41747573	22.33009709	0	9	0	5	19.41747573	54	0
620	0.845201366	0	0	15.95505618	11.68539326	0	6	0	3	35.73033708	36.53846154	25.86206897
621	0.976923935	0	0	17.4796748	23.98373984	0	6	0	3	23.57723577	15.90909091	9.433962264
622	0.686275424	0	0	0.735294118	8.088235294	0	2	0	5	55.88235294	100	18.18181818
623	0.858403243	0	0	4.081632653	22.95918367	0	1	0	4	32.65306122	58.33333333	0
624	0.745318739	0	0	20.62780269	2.242152466	0	5	0	1	51.56950673	7.913669065	2.027027027
625	0.96298676	0	0	17.43589744	5.641025641	0	1	0	1	29.74358974	25.23364486	7.37704918
626	0.898911484	0	0	15.18518519	15.92592593	0	1	0	3	44.81481481	33.33333333	3.333333333
627	1.055838084	0	0.507614213	14.72081218	30.96446701	0	3	0	5	18.78172589	15.38461538	0
628	0.932594233	0	0	0	46.2585034	0	4	0	3	27.89115646	6.896551724	8.108108108
629	0.77815125	0	0	0	16.66666667	0	1	0	0	16.66666667	33.33333333	0
630	1.011777399	0	0	7.5	23.75	0	3	0	3	18.75	11.53846154	29.72972973
631	0.953121749	0	4.347826087	4.347826087	4.347826087	4.347826087	4	0	1	21.73913043	0	7.142857143
632	1.141588817	0	0	0	13.68421053	0	5	0	1	17.89473684	20.80924855	4.838709677
633	1.132200387	0	0	0.462962963	12.96296296	0	6	0	3	18.98148148	9.734513274	20.26143791
634	1.009620086	0	0	25.80645161	3.225806452	0	3	0	3	25.80645161	66.66666667	8.333333333
635	1.112626547	0	0	7.954545455	17.04545455	0	3	0	1	19.31818182	77.41935484	9.523809524
636	1.042971721	0	0	4.458598726	26.75159236	0	4	0	1	22.92993631	41.50943396	18.42105263
637	1.016276676	0	0	3.80952381	23.80952381	0	8	0	2	23.80952381	3.333333333	29.9270073
638	0.794262354	0	0	0.903861956	7.55957272	0	3	0	3	53.41002465	71.03825137	3.567888999
639	0.992797318	0	0	6.461538462	13.84615385	0	3	0	3	32	60.11560694	13.24200913
640	0.993523398	0	0.420168067	1.260504202	5.042016807	0	13	0	1	34.87394958	79.80769231	4.326923077
641	0.56217965	0	1.257861635	19.81132075	0.314465409	0	5	0	5	64.77987421	0	2.272727273
642	1.064357104	0	0	6.614785992	4.280155642	0	8	0	2	36.18677043	26.47058824	55.68862275
643	0.96659222	0	0	3.416149068	9.316770186	0	10	0	5	44.72049689	13.63636364	63.59649123
644	1.100192801	0	0	7.051282051	18.58974359	0	12	0	1	20.08547009	13.58024691	30.24691358
645	1.187139823	0	0	1.098901099	13.73626374	0	10	0	3	15.38461538	10.44776119	13.74570447
646	1.099921087	0	0	0.408163265	24.89795918	0	9	0	2	19.18367347	7.692307692	9.523809524
647	1.013898646	0.452488688	0.452488688	4.524886878	23.07692308	0	2	0	3	24.88687783	85.71428571	0
648	1.132228664	0	0.420168067	3.361344538	29.83193277	0	7	0	2	21.42857143	85.36585366	12.96296296
649	0.866594929	0	0	4.745762712	37.28813559	0	4	0	4	36.27118644	93.50649351	24.63768116
650	0.975484335	0	0	17.31448763	0.706713781	0	9	0	4	34.98233216	4.545454545	59.88023952
651	0.892424568	0	0	44.05594406	0.34965035	0	5	0	5	44.05594406	7.142857143	16.82242991
652	0.816174935	0	0	19.90950226	0.226244344	0	6	0	6	45.70135747	4.87804878	66.4495114
653	1.058826341	0	0	0.452488688	25.33936652	0	11	0	1	24.88687783	31.81818182	3.773584906
654	0.511311347	2.754237288	1.906779661	0.423728814	9.957627119	0	4	0	4	73.14618644	0	0
655	0.859492858	0	0	3.741496599	12.24489796	0	7	0	5	51.36054422	18.51851852	70.18348624
656	1.05453725	0	1.895734597	1.658767773	2.725118483	0	7	0	5	29.73933649	1.904761905	41.0130719
657	0.80392569	0	0.557413601	15.71906355	44.48160535	0	5	0	2	44.48160535	12.5	52.56916996
658	0.821812244	13.91437309	44.18960245	1.834862385	6.422018349	0	1	0	5	44.18960245	100	0
659	0.877434035	0	0	6.666666667	15.92592593	0	8	0	2	44.07407407	24.13793103	17.32673267
660	0.926564665	0	0	4.983388704	23.25581395	0	7	0	2	33.55481728	2.222222222	49.50980392
661	1.079309613	0	0	0.621118012	10.86956522	0	7	0	1	19.25465839	47.14285714	14.54545455
662	0.827846036	1.967213115	0	3.606557377	0.655737705	0	2	0	4	33.44262295	19.51219512	81.14035088

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BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
663	1.039497656	0	1.893939394	12.87878788	26.89393939	0	7	0	4	26.51515152	90	32
664	1.16975669	0	0	4.761904762	5.158730159	0	14	0	2	26.19047619	44.89795918	0.925925926
665	1.024904123	0	0.757575758	17.8030303	6.818181818	0	5	0	3	18.18181818	96.20253165	34.04255319
666	1.011547059	0	0	3.243243243	34.59459459	0	14	0	4	27.56756757	0	3.333333333
667	1.095091796	0	0	4.850746269	10.44776119	0	11	0	2	23.13432836	11.11111111	29.95169082
668	0.882060281	0	0	34.74576271	11.86440678	0	5	0	3	34.74576271	0	19.56521739
669	0.936768276	0	0	5.263157895	38.59649123	0	5	0	2	31.57894737	0	20.68965517
670	0.992612256	0	0	37.25490196	23.03921569	0	10	0	3	37.25490196	29.72972973	7.575757576
671	0.910950684	0	0	34.5	36	0	11	0	2	34.5	0	9.523809524
672	0.959145344	0	0	18.62745098	36.2745098	0	4	0	1	34.31372549	66.66666667	8.108108108
673	0.845030785	0	0	23.41772152	40.82278481	0	7	0	3	40.50632911	43.47826087	3.96039604
674	1.024154313	0	0	19.55307263	27.93296089	0	7	0	1	26.81564246	73.33333333	4.109589041
675	0.93472808	0	0	8.021390374	2.673796791	0	6	0	2	23.52941176	66.66666667	48.35164835
676	1.087794014	0	0	0.348432056	8.710801394	0	11	0	1	26.48083624	5.673758865	1.724137931
677	0.92084967	0	0	0.865800866	12.98701299	0	8	0	3	38.52813853	8.333333333	1.630434783
678	0.492604736	0	0	3.563474388	0.668151448	0	3	0	3	74.16481069	80.70175439	81.90709046
679	0.952989346	0	0	2.904564315	1.659751037	0	9	0	1	33.19502075	67.14285714	9.905660377
680	0.654451454	0	0	3.873239437	56.69014085	0	4	0	3	56.69014085	100	60.2739726
681	0.956537658	0	0	3.90070922	13.4751773	0	10	0	3	26.95035461	94.05940594	20.9039548
682	1.117792787	0	0	3.765690377	20.50209205	0	11	0	1	19.66527197	44.44444444	26.31578947
683	0.705444274	0	0	4.395604396	0.732600733	0	4	0	3	38.0952381	100	44.03669725
684	0.918911359	0	0	5.762711864	7.118644068	0	3	0	1	31.52542373	100	45.81280788
685	0.9996183	0	0	9.486166008	6.719367589	0	3	0	3	30.03952569	96.2962963	49.35064935
686	0.888845305	0	0	1.687763713	46.41350211	0	6	0	2	43.45991561	12.72727273	16.98113208
687	0.958721773	0	0	0	28.95752896	0	8	0	1	28.57142857	20.51282051	18.58974359
688	0.970022561	0	0.333333333	10.66666667	4	0	6	0	1	28.66666667	97.14285714	40.95238095
689	1.133441331	0	0	5.726872247	11.89427313	0	11	0	1	15.85903084	42.70833333	22.04301075
690	0.842882557	0	0	6.85483871	2.419354839	0	5	0	2	28.62903226	51.82481752	29.62962963
691	0.865085769	0	0	11.18210863	2.236421725	0	6	0	3	30.03194888	48.95833333	21.31782946
692	0.677807918	0	16.66666667	0	0	0	2	0	1	33.33333333	0	25
693	0.6895322	0	1.587301587	0	9.523809524	0	3	0	2	36.50793651	0	0
694	0.877194506	0	0	18.18181818	9.090909091	0	4	0	2	18.18181818	0	0
695	0.923140777	0	0	28.81177708	5.993690852	0	14	0	1	30.59936909	12.78195489	0
696	1.0238245	0	0	10.041841	7.531380753	0	11	0	1	32.63598326	31.03448276	3.550295858
697	1.05011973	0.336700337	0.336700337	12.12121212	24.91582492	0	6	0	2	23.90572391	64.38356164	9.523809524
698	0.985884125	0	0.696864111	2.787456446	8.362369338	0	6	0	6	29.96515679	53.37423313	1.123595506
699	1.098014453	0	0.48	6.72	20.96	0	12	0	5	23.04	68.96551724	39.22077922
700	0.950159995	0	0.35971223	2.517985612	15.4676259	0	6	0	5	32.37410072	61.74496644	1.685393258
701	0.895752267	0	0	26.72413793	0.431034483	0	6	0	2	26.72413793	4.054054054	38.41059603
702	0.95970511	0	0	24.24242424	0.606060606	0	9	0	3	26.66666667	7.547169811	41.22807018
703	1.053644163	0	0	17.68707483	0.680272109	0	7	0	4	21.08843537	9.615384615	27.83505155
704	0.68786423	0	0	3.8647343	1.93236715	0	3	0	3	58.45410628	97.6744186	0
705	0.519037777	0	0	4	1.818181818	0	3	0	3	69.09090909	100	1.015228426
706	0.697688178	0	0	3.58974359	63.07692308	0	5	0	2	57.43589744	96.15384615	16.66666667
707	0.890283659	0	0	42.85714286	1.930501931	0	9	0	3	42.85714286	7.058823529	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
708	1.108772636	0	0	24.76190476	2.857142857	0	9	0	5	24.76190476	4.716981132	1.704545455
709	0.927360213	0	0.411522634	12.34567901	4.526748971	0	6	0	3	28.80658436	0.694444444	8.571428571
710	1.136307519	0	0.309597523	21.67182663	14.70588235	0	10	0	3	21.67182663	13.5483871	14.15662651
713	0.763377647	0	0	1.075268817	4.301075269	0	12	0	4	57.70609319	2.857142857	3.930131004
716	1.102854978	0	0	17.61363636	0	0	8	0	1	21.59090909	8.888888889	20
717	0.548819207	0	0	69.6969697	4.545454545	0	9	0	1	69.6969697	0	0
718	0.766385577	0	0	48.70466321	1.295336788	0	6	0	2	48.70466321	4.347826087	1.418439716
719	1.170093558	0	0	0.389863548	16.95906433	0	11	0	4	13.64522417	27.20588235	33.50649351
720	1.046690519	0	0	0	16.73003802	0	5	0	3	21.29277567	8.080808081	24.35233161
723	1.032663345	0	0	23.63013699	8.561643836	0	5	0	4	23.63013699	18.75	14.12429379
724	1.082012313	0	0	20.30651341	10.72796935	0	7	0	8	27.96934866	30.55555556	2.985074627
725	1.195664233	0	0	4.383282365	11.11111111	0	8	0	4	23.34352701	41.66666667	48.96836314
728	1.238649983	0	0	4.895104895	33.91608392	0	7	0	6	13.98601399	42.42424242	30.59701493
729	1.072632116	0	0	4.081632653	2.040816327	0	6	0	8	19.18367347	1.785714286	0.636942675
730	1.253453331	0	0	7.751937984	15.11627907	0	8	0	5	16.66666667	59.72222222	17.39130435
731	1.078678512	0	0	5.025125628	0.335008375	0	4	0	3	22.11055276	11.91489362	17.61658031
732	0.988451739	0	0	10.82251082	0	0	5	0	3	32.46753247	6.25	5.405405405
733	1.027826649	0	0	0	0.460829493	0	6	0	2	34.56221198	14.16666667	9.944751381
734	0.991864941	0	0	3.603603604	0.900900901	0	5	0	4	31.53153153	2.521008403	5.298013245
735	0.801330497	0	0	31.02564103	6.923076923	0	1	0	3	31.02564103	95.83333333	12.96296296
736	0.902989472	6.34 -02	6.34 -02	8.745247148	3.675538657	0	10	0	2	38.59315589	27.77129522	20.07518797
737	0.856631878	0	0	39.24528302	4.528301887	0	2	0	5	39.24528302	27.39726027	5.194805195
738	0.680508584	0	0	41.91033138	0	0	1	0	6	41.91033138	0	0
739	0.904441623	0.143678161	0	21.12068966	5.747126437	0	2	0	6	34.48275862	76.92307692	68.71794872
740	0.996038505	0	0	0.806451613	11.29032258	0	7	0	1	29.03225806	24	3.448275862
741	0.65461285	0	2.317880795	28.25607064	1.103752759	2.317880795	1	0	5	48.01324503	0	94.36008677
742	0.966187285	0	0	9.174311927	8.256880734	0	1	0	4	23.85321101	43.75	19.17808219
743	0.969788103	0	0	9.194159005	4.597079502	0	5	0	3	30.66522445	25.95673877	7.891246684
744	0.997468936	0.802139037	2.941176471	14.17112299	8.021390374	0	0	0	6	25.13368984	47.88732394	57.14285714
745	0.72089564	0	27.77777778	42.77777778	7.777777778	0	1	0	5	42.77777778	0	0
746	0.502207088	0	8.333333333	0	0	0	1	0	2	66.66666667	5.882352941	10.52631579
747	0.767415915	0	0	6.25	3.125	0	2	0	3	43.75	16.66666667	20.83333333
748	0	0	0	0	0	0	0	0	0	0	0	0
749	0.727616225	0	0	10.52631579	0	0	0	0	1	33.55263158	34	23.07692308
750	0.582218125	0	0	18.66028708	11.00478469	0	0	0	5	57.41626794	0	99.17355372
751	1.030237873	0.507614213	1.015228426	0.253807107	11.6751269	0	1	0	4	23.85786802	36.48648649	33.21678322
752	0.186117103	0	0	13.68821293	3.80 -02	0	1	0	2	85.93155894	0	0
753	0.81078027	0	0	0	4.724409449	0	4	0	0	36.22047244	79.31034483	1.801801802
754	0.673894721	0	0	0	3.468208092	0	2	0	1	57.80346821	96.49122807	0
755	0.702728963	0	0	9.392265193	0	0	3	0	3	44.19889503	35.48387097	12.83783784
756	0.88383465	0	0	45.56962025	18.01935964	0	10	0	2	45.56962025	30.64516129	11.37566138
757	1.005462435	0	0	21.50882825	13.00160514	0	3	0	3	21.50882825	23.07692308	9.836065574
758	0.607167499	0	0	12.15753425	0.114155251	0	4	0	2	61.35844749	74.13793103	42.23918575
759	0.72946101	3.333333333	0	48.33333333	1.666666667	0	0	0	3	48.33333333	100	0
760	0.773071269	0	1.595405233	1.467772814	41.0976388	0	0	0	2	40.97000638	5.135951662	52.12201592

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
761	0.504941825	6.69 -02	0	3.277591973	2.742474916	0	1	0	4	73.04347826	0.454132607	11.36023916
762	0.898882963	1.652892562	5.509641873	20.11019284	4.132231405	0	1	0	5	34.43526171	75.75757576	13.98963731
763	0.70635602	7.65 -02	7.65 -02	1.376146789	1.681957187	0	3	0	3	54.66360856	90.27777778	27.70330652
764	0.406849765	0	0	24.24342105	0.361842105	0	1	0	3	68.71710526	54.54545455	97.61682243
765	1.151301104	0	0	6.934306569	19.89051095	0	5	0	4	13.68613139	53.95683453	15.6462585
766	1.060427179	0	0	16.72104405	1.549755302	0	6	0	7	16.72104405	26.64756447	1.09223301
767	0.164904354	92.80742459	0.185614849	3.109048724	4.64 -02	0	1	0	2	92.80742459	100	0
768	1.141183172	0	0	13.10344828	4.482758621	0	3	0	4	13.96551724	27.43902439	32.65306122
769	1.033576599	0	0	27.44630072	17.89976134	0	10	0	3	27.44630072	55.93220339	14.83253589
770	1.069530855	0	0.549450549	16.48351648	22.52747253	0	12	0	2	22.52747253	21.05263158	10
771	0.847079821	0	0	0.154083205	0.92449923	0	8	0	1	39.44530046	13.69863014	0.649350649
772	0.659323841	0	0	2.298850575	1.149425287	0	2	0	5	59.77011494	64.70588235	71.23287671
773	0.552607473	0	0.674289065	60.97918499	0.058633832	0	2	0	2	60.97918499	38.74538745	73.04104478
774	0	0	0	0	0	0	0	0	0	0	0	0
775	0.6846451	0	0	40	0	0	1	0	2	40	65.51724138	0
776	1.097752996	0	0	3.935185185	4.62962963	0	11	0	1	23.14814815	43.66812227	0.347222222
777	0.681965612	0	0	6.578947368	2.631578947	0	0	0	2	35.52631579	100	42.55319149
778	0.908006204	1.084598698	0	3.036876356	5.856832972	0	3	0	3	34.05639913	100	36.07038123
779	0.801132632	0	0	6.976744186	11.62790698	0	1	0	3	41.86046512	0	0
780	0.719485785	0	0	6.4453125	63.671875	0	6	0	4	54.6875	100	5.93220339
781	0.983739047	0	0	9.172259508	18.79194631	0	6	0	2	21.25279642	87.1559633	1.913875598
782	0.814673721	0	0	3.921568627	1.960784314	0	1	0	3	31.37254902	45.16129032	25
783	0.617892139	0	0	20.92198582	35.46099291	0	0	0	3	34.92907801	0	0
784	0.479543623	0	0	61.04651163	11.62790698	0	1	0	3	61.04651163	0	0
785	0.466747701	0	0	0.3125	1.5625	0	2	0	2	48.75	100	45.79124579
786	0.49043708	0	0	62.94416244	0	0	0	0	4	62.94416244	0	0
787	0.458146008	0	0	0	20	0	1	0	0	40	0	0
788	0.7630048	29.67741935	0	33.5483871	1.198156682	0	4	0	3	33.5483871	42.10526316	64.1350211
789	0.238267739	0	0	89.63835839	1.82852499	0	0	0	8	89.63835839	100	0
790	0.758065773	0	48.66529774	8.624229979	0.821355236	0	3	0	6	48.66529774	100	0.925925926
791	0.978223536	0	0.182815356	25.59414991	2.559414991	0	8	0	3	25.59414991	99.09090909	29.10447761
792	1.11128067	1.063829787	0.709219858	7.446808511	21.63120567	0	4	0	6	25.17730496	54.83870968	15.86206897
793	0.91420343	0	4.854368932	6.796116505	46.11650485	0	6	0	2	41.26213592	15.15151515	16
794	1.021265789	0	0	5.27325024	4.985618408	0	5	0	4	32.40651965	25.29644269	33.89121339
795	0.776324672	1.724137931	0	20.68965517	0	0	0	0	1	25.86206897	100	14.70588235
796	1.126065285	20.40816327	4.081632653	18.36734694	11.2244898	0	2	0	6	20.40816327	50	0
797	0.917333182	22.44897959	0	10.20408163	4.081632653	0	1	0	5	24.48979592	0	0
798	0.956347075	27.09677419	0	1.935483871	2.580645161	0	1	0	4	27.09677419	100	12.24489796
799	0.717946956	0	0	0.701754386	5.263157895	0	0	0	3	55.43859649	69.01408451	16.47058824
800	0.206690277	18.30065359	0	0	0	0	0	0	1	81.69934641	0	0
801	0.887310042	0.526315789	4.210526316	2.105263158	7.894736842	0	0	0	2	27.89473684	100	53.92156863
802	0.268575683	0	0	7.258064516	1.612903226	0	0	0	2	85.48387097	100	20
807	0.951778172	0	29.85347985	18.31501832	12.27106227	0	6	0	2	29.85347985	57.14285714	0
812	0.879340788	0	10.75514874	10.29748284	33.40961098	0	7	0	2	32.26544622	100	0
813	0.46697341	0	0	23.66666667	2.666666667	0	2	0	1	64.66666667	100	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Shan 10	AmphPct	BivalPct	ChiroPct	ColeoPct	CorbPct	IntolTax	In olTax	TolerTax	Dom01Pct	Baet EphPct	Hyd EPTPct
814	0.744262142	0	10.34482759	43.96551724	3.879310345	0	2	0	6	43.96551724	100	0
815	0.904471519	0	26.5625	24.47916667	12.67361111	0	7	0	3	26.5625	100	0
816	0	0	0	0	0	0	0	0	0	0	0	0
817	0.750627301	0	0	35	3.181818182	0	4	0	5	36.36363636	50	0
818	0.268575683	0	0	7.258064516	1.612903226	0	0	0	2	85.48387097	100	20

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
23	84.14634146	56.77083333	0.520833333	4	0.243243243	0.383017016	1	0	0	2	2	5	0	0
24	0	38.0952381	3.80952381	20	2.806408545	0.156286432	1	1	0	3	6	17	0	0
25	32.4099723	27.81007752	6.492248062	15	2.948717949	0.174963722	1	1	0	4	4	15	0	0
26	33.33333333	44.27312775	5.066079295	10	1.561151079	0.181589209	1	1	0	2	4	10	0	0
27	23.07692308	28.61570248	3.615702479	28	2.772036474	0.155450101	1	2	0	8	5	21	0	0
28	3.694581281	64.44223108	5.577689243	32	1.881081081	0.1322447	1	2	0	6	7	23	0	0
29	99.35483871	14.81481481	9.053497942	11	4.679012346	0.42073938	1	0	0	4	4	8	1	0
30	39.09287257	43.05555556	3.914141414	24	3.316761364	0.138074806	1	2	0	4	3	14	1	0
31	31.34920635	10.54421769	40.98639456	16	6.253731343	0.268748044	1	1	0	4	4	12	1	0
32	0	14.00560224	15.40616246	24	4.220963173	0.41590344	1	3	0	6	6	14	0	0
33	7.600950119	66.80497925	14.38450899	22	2.179104478	0.273027513	1	2	0	6	7	17	0	0
34	0.64516129	65.76271186	13.22033898	21	2.392086331	0.278397744	1	3	0	5	7	15	1	0
35	0.326797386	26.06177606	10.81081081	20	3.626953125	0.335653421	1	3	0	3	5	15	0	0
36	92.78606965	3.22997416	15.50387597	15	5.206266319	0.282305591	1	2	0	4	3	11	1	0
37	27.98634812	30.37974684	5.274261603	22	3.701086957	0.129187072	1	1	1	7	2	15	1	0
38	45.93301435	1.003344482	2.508361204	12	4.781420765	0.250623239	1	2	1	4	2	8	2	0
39	3.667953668	72.46376812	1.976284585	22	1.386731392	0.366862383	1	2	0	6	7	19	1	0
40	0	44.54545455	20.90909091	15	3.126760563	0.210419261	1	3	0	3	4	11	0	0
41	4.411764706	17.67241379	13.36206897	18	4.373913043	0.13621436	1	3	0	6	5	11	0	0
42	0.465116279	11.69451074	24.34367542	12	4.769417476	0.308915052	1	2	0	3	3	9	0	0
43	0	11.9047619	25.99206349	19	4.745454545	0.274945565	1	3	0	5	5	12	0	0
44	0	3.598971722	79.69151671	10	7.080103359	0.639533035	1	2	0	5	5	7	0	0
45	11.11111111	45.16129032	22.58064516	12	3.726775956	0.183667539	1	1	0	4	4	8	0	0
46	44.25287356	27.61037141	19.55150666	14	4.203690561	0.136471437	1	1	0	4	3	13	1	0
47	0	20.43343653	38.6996904	24	5.09	0.181278003	1	3	0	7	4	15	0	0
48	0	18.03797468	30.37974684	22	4.820512821	0.145107494	1	4	0	5	3	15	1	0
49	16.66666667	42.07650273	14.75409836	12	2.818965517	9.94 -02	1	1	0	5	3	10	1	0
50	100	0	36.84210526	1	5.763157895	0.251778094	1	0	0	3	1	2	1	0
51	85.71428571	7.142857143	10.71428571	6	4.892857143	0.253246753	1	1	0	3	2	4	0	0
52	14.28571429	43.85964912	5.263157895	12	2.672727273	0.237468672	1	1	0	2	3	8	1	0
53	0	66.66666667	0	1	2	0.333333333	0	0	0	1	0	1	0	0
54	71.42857143	12.93103448	7.75862069	11	4.394495413	0.130884558	1	2	1	3	6	10	0	0
55	75.51020408	27.54491018	10.17964072	22	3.6	9.85 -02	1	2	0	7	7	15	1	0
56	50	16.16161616	15.82491582	19	4.733590734	0.118209118	1	1	0	6	4	14	0	0
57	20	41.7721519	5.063291139	21	2.33908046	0.120110134	1	2	0	5	6	14	0	0
58	0	29.26829268	0	7	3.37398374	0.411968546	0	2	0	2	3	5	0	0
59	0	75.15923567	2.547770701	8	1.936305732	0.261309815	1	1	1	2	3	6	2	0
60	3.225806452	51.20772947	17.39130435	6	4.058536585	0.147178838	0	1	1	3	2	6	2	0
61	17.64705882	69.31818182	9.659090909	8	3.028571429	0.239090909	1	0	1	6	2	6	2	0
62	0	19.89795918	22.44897959	6	4.649253731	0.215907902	1	2	0	3	2	4	1	0
63	64.70588235	4.509803922	0.392156863	3	4.403921569	0.542570977	1	1	0	2	1	4	0	0
64	44.82758621	45.90163934	3.278688525	4	3.475409836	0.202185792	1	1	0	2	2	5	0	0
65	72	24	10	13	4.074829932	0.15033557	1	2	1	3	5	9	0	0
66	58.47457627	7.624633431	34.31085044	9	5.479166667	0.189822322	1	3	0	2	4	8	0	0
67	0	19.67213115	32.24043716	14	4.889196676	0.139711056	1	2	0	4	6	12	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
68	0	16.38655462	42.43697479	11	5.396551724	0.223805978	1	1	0	1	6	12	0	0
69	77.27272727	9.120521173	20.84690554	15	4.895622896	0.143066999	1	2	0	5	5	12	1	0
70	80.76923077	30	4.210526316	15	3.872928177	9.32 -02	1	2	0	6	6	10	0	0
71	39.47368421	29.54545455	15.15151515	9	3.90625	0.100624566	1	1	1	5	3	7	0	0
72	64.86486486	47.76119403	1.492537313	10	3.064516129	0.148804848	1	3	0	3	4	8	0	0
73	70.70707071	50.67264574	1.34529148	16	3.201388889	0.197652038	1	3	1	4	6	13	0	0
74	0	14.59227468	35.6223176	21	5.046789989	0.217793872	1	2	0	6	5	14	0	0
75	79.41176471	30.35714286	8.035714286	10	3.92	0.127091377	1	3	1	3	6	9	0	0
76	78.57142857	39.08045977	11.20689655	9	3.817629179	0.182848057	1	2	1	3	4	8	0	0
77	13.84615385	22.53521127	19.11468813	22	4.284753363	0.105739274	1	3	0	6	6	17	0	0
78	0	43.14381271	20.40133779	16	3.491638796	0.17222958	1	1	0	4	2	9	0	0
79	24.35897436	53.04878049	3.353658537	29	2.439739414	0.135432983	1	1	0	6	6	20	0	0
80	80.55555556	23.92857143	11.07142857	29	3.593301435	0.116973886	1	1	0	6	6	22	0	0
81	61.44578313	13.1147541	10.38251366	19	4.43452381	0.145078965	1	1	0	8	5	13	0	0
82	7.317073171	3.03030303	25.56818182	17	5.198717949	0.142976252	1	3	0	5	3	12	0	0
83	0	31.42857143	17.85714286	14	4.044117647	0.115416238	1	3	0	5	3	8	0	0
84	19.6969697	11.18760757	26.33390706	13	5.298206278	0.14850733	1	2	0	5	3	10	1	0
85	14.48040886	47.07880435	16.98369565	21	3.253371869	9.08 -02	1	1	0	6	5	18	1	0
86	18.75	11.8993135	26.31578947	16	5.292517007	0.119179242	1	2	0	6	4	15	2	0
87	42.94117647	23.41696535	10.63321386	23	3.820276498	9.96 -02	1	2	0	9	5	17	1	0
88	34	45.57438795	6.403013183	28	2.482191781	6.65 -02	1	2	0	4	7	19	1	0
89	14.47368421	20.26143791	33.66013072	25	4.911971831	0.18276585	1	1	1	6	6	18	1	0
90	2.857142857	31.29689175	6.323687031	22	3.375	0.191943935	1	2	1	5	4	17	2	0
91	11.11111111	36.17463617	3.95010395	22	3.144607843	0.136096674	1	2	0	7	4	17	2	0
92	1.486988848	46.95187166	11.97860963	24	3.111111111	0.127236084	1	1	1	6	5	16	1	0
93	11.42857143	11.2012987	42.37012987	20	5.480607083	0.306804984	1	3	2	5	4	14	1	0
94	0.170068027	45.83063995	19.71557854	20	3.896597732	0.2224035	1	2	2	7	4	15	1	0
95	7.142857143	66.66666667	13.85281385	21	2.745614035	0.180764163	1	1	1	5	4	14	1	0
96	68.91891892	3.823529412	34.11764706	12	5.66969697	0.181329169	1	1	0	5	4	12	1	0
97	97.86096257	3.024193548	24.19354839	11	5.553097345	0.216854024	1	2	0	3	5	13	0	0
98	0	1.971830986	55.21126761	11	6.499252616	0.310606091	1	2	0	5	4	9	1	0
99	13.23251418	27.85547786	6.177156177	21	3.397727273	0.14293913	1	2	0	5	5	17	0	0
100	93.89312977	8.513189448	62.11031175	15	6.487303507	0.400257945	1	2	1	4	5	11	0	0
101	87.38738739	7.246376812	5.797101449	11	4.807291667	0.244641433	1	1	0	4	4	10	0	0
102	99.15966387	0.259965338	1.993067591	8	5.672473868	0.553684834	1	1	1	4	4	7	1	0
103	95.78313253	0.273597811	5.335157319	6	5.3370319	0.280520211	1	1	1	3	2	6	0	0
104	66.66666667	0	26.39484979	4	6.002173913	0.263113203	1	1	0	4	1	6	0	0
105	90.90909091	54.27135678	7.537688442	7	3.37628866	0.313232831	1	3	0	6	3	6	0	0
106	0	16.70020121	36.21730382	25	5.362204724	0.161866359	1	2	1	7	7	18	1	0
107	1.851851852	33.38607595	18.67088608	28	3.756818182	0.107414391	1	3	0	9	6	21	2	0
108	3.571428571	31.86490455	15.71218796	30	3.771894094	8.48 -02	1	3	0	6	7	23	2	0
109	0	38.19028609	36.9926813	28	4.629118774	0.184416786	1	2	1	6	6	18	1	0
110	4.524886878	38.49693252	29.44785276	19	4.179226069	0.228247246	1	1	1	9	3	14	1	0
111	1.234567901	23.95833333	12.26851852	20	3.818345324	0.158351573	1	3	1	8	5	14	1	0
112	0	13.40782123	65.36312849	9	6.886227545	0.394764924	1	2	1	8	0	4	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
113	10.83743842	52.62172285	22.84644195	28	3.351380042	0.161071505	1	2	1	7	7	21	1	0
114	26.31578947	3.601694915	58.68644068	20	6.771631206	0.345958356	1	2	0	4	5	15	1	0
115	4.21686747	21.37161085	32.2169059	24	4.878453039	0.101130695	1	2	1	8	5	16	2	0
116	43.77104377	24.84848485	29.46969697	20	4.788990826	0.144284008	1	1	1	6	6	18	1	0
117	20	40.07936508	12.5	28	3.135549872	6.67 -02	1	2	1	7	7	19	1	0
118	0	69.04761905	4.761904762	6	2.5625	0.243902439	1	1	0	4	1	2	0	0
119	92.56756757	57.0155902	0.445434298	14	2.892376682	0.298938116	1	1	0	4	2	8	0	0
120	28.57142857	54.6875	29.6875	5	4.34375	0.18452381	1	2	0	2	0	3	0	0
121	72.72727273	64.9122807	11.40350877	10	2.635964912	0.423834918	1	1	0	2	2	7	0	0
122	73.91304348	51.88284519	0.418410042	16	2.55399061	0.205970254	0	1	1	1	4	11	0	0
123	5.990016639	47.37318841	10.14492754	24	2.899791232	0.132194265	1	1	0	7	9	18	0	0
124	20	47.92626728	0.921658986	15	2.817307692	0.166239973	1	1	0	4	6	11	1	0
125	25	39.68253968	3.968253968	15	2.885964912	0.108952381	1	1	0	5	5	11	0	0
126	13.63636364	4.271356784	20.35175879	12	4.898630137	0.155437135	1	1	0	4	4	13	1	0
127	28.57142857	2.577319588	13.91752577	7	5.071428571	0.248170504	1	2	0	3	5	11	1	0
128	75	16.47727273	18.18181818	16	4.762295082	0.141558442	1	1	0	4	6	11	2	0
129	97.52066116	13.18458418	4.259634888	15	4.483801296	0.275598212	1	1	0	5	5	10	1	0
130	89.24050633	6.451612903	7.52688172	11	4.959390863	0.301462056	1	0	0	7	5	10	1	0
131	0	49.79253112	9.543568465	8	3.444906445	0.339809008	1	0	0	5	1	5	1	0
132	19.64285714	27.95918367	23.26530612	23	4.165354331	0.118317266	1	1	0	5	7	20	1	0
133	54.16666667	18.28978622	17.57719715	24	4.425	0.107058025	1	2	0	6	7	18	1	0
134	0	19.06354515	23.41137124	21	4.636363636	0.14809993	1	1	0	6	6	14	0	0
135	77.5862069	17.98780488	9.756097561	20	3.805714286	9.04 -02	1	3	0	4	7	16	2	0
136	0	54.5751634	14.70588235	23	2.902985075	9.34 -02	1	0	0	6	4	13	0	0
137	12.04819277	20.35928144	25.2994012	29	4.584862385	0.123890151	1	3	0	5	7	22	1	0
138	14.47368421	18.43434343	11.11111111	13	3.970588235	0.242577675	1	1	1	6	6	13	0	0
139	29.89690722	32.12290503	8.379888268	18	3.041474654	8.76 -02	1	1	0	9	7	15	1	0
140	5.974842767	47.12643678	10.08939974	22	2.839546191	0.130000359	1	2	0	8	8	17	0	0
141	31.52173913	1.169590643	3.50877193	8	4.504672897	0.182593739	1	1	0	2	5	11	0	0
142	100	3.846153846	10.25641026	6	4.603174603	0.152847153	0	2	0	1	4	5	0	0
143	40.49429658	53.63790186	1.692047377	9	2.802768166	0.411586223	1	1	0	3	5	8	0	0
144	0	0.220264317	37.2246696	4	6.297356828	0.349787515	1	0	0	2	3	3	0	0
145	100	27.27272727	7.792207792	6	4.043290043	0.150988142	1	0	0	2	4	6	1	0
146	85.71428571	35.87223587	7.125307125	8	3.535626536	0.382493555	1	0	0	2	4	7	1	0
147	81.81818182	7.777777778	20.37037037	9	4.735074627	0.222387443	1	0	0	4	5	8	0	0
148	100	10.52631579	10.52631579	5	4.466666667	0.14619883	0	0	0	0	4	6	1	0
149	92.46704331	0.651890482	12.77705346	7	5.258019526	0.433553127	1	1	1	1	4	7	0	0
150	39.70588235	22.97297297	3.153153153	18	3.821256039	0.189556072	1	1	0	5	3	13	0	0
151	14.54545455	28.01251956	10.3286385	20	3.376425856	0.201647362	1	2	0	5	5	15	1	0
152	12.16931217	19.57478006	13.92961877	19	4.110955056	0.105263101	1	2	0	7	6	17	0	0
153	0.769230769	58.44544096	24.58893871	14	3.635542169	0.222936253	1	2	0	3	5	12	1	0
154	13.38028169	16.83480454	28.9407314	24	4.940983607	0.214454553	1	2	1	6	5	18	0	0
155	2.843601896	39.17159763	14.20118343	25	3.607788595	7.90 -02	1	3	1	4	5	17	1	0
156	37.69633508	27.26502964	13.3784928	26	3.953107961	8.16 -02	1	3	1	7	6	19	1	0
157	8	38.77038896	13.17440402	19	3.391014975	9.25 -02	1	4	1	6	4	13	2	0

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BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
158	0	33.33333333	0	5	2	0.252873563	0	0	0	0	4	5	0	0
159	44.35483871	35.55555556	1.777777778	11	1.16091954	0.182936508	1	1	0	3	3	10	1	0
160	0	51.61290323	1.612903226	22	1.737991266	0.111243345	1	2	0	6	5	15	1	0
161	81.39534884	17.04545455	2.272727273	11	1.694444444	0.183896104	1	1	0	4	3	9	0	0
162	66.66666667	46.66666667	0.740740741	6	0.343283582	0.266777225	0	1	0	1	3	7	0	0
163	74.22969188	32.47927656	11.07761869	16	3.653846154	0.108581063	1	2	2	6	5	16	1	0
164	47.63231198	16.67354519	12.34007429	20	4.502319417	0.171756392	1	1	1	6	7	18	1	0
165	13.33333333	20.20725389	24.35233161	12	4.791666667	0.214305901	1	1	0	6	3	9	2	0
166	2	45.30075188	10.33834586	21	2.693593315	0.106410093	1	3	1	5	7	17	2	0
167	15.75342466	21.91780822	25.11415525	17	4.504398827	7.94 -02	1	1	1	5	2	12	2	0
168	39.39393939	31.18712274	14.08450704	21	3.230769231	0.174214643	1	4	0	7	6	18	1	0
169	36.28318584	51.0373444	8.506224066	26	2.425806452	8.52 -02	1	3	0	3	7	19	1	0
170	2.314814815	27.89699571	14.48497854	22	3.779850746	0.156792963	1	5	1	7	5	17	1	0
171	21.73913043	16.36863824	71.9394773	29	6.606725146	0.513525906	1	2	0	6	6	22	1	0
172	11.42857143	73.29842932	5.759162304	21	1.601226994	0.103775145	1	1	0	3	5	17	1	0
173	19.14893617	57.26141079	1.244813278	14	1.172839506	0.140248963	1	1	0	5	4	14	2	0
174	0	83.56164384	13.01369863	7	2.013793103	0.588001889	1	1	1	1	2	4	0	0
175	93.33333333	29.72972973	36.93693694	3	4.944444444	0.277477477	1	1	0	2	1	3	0	0
176	100	3.418803419	2.279202279	8	4.686609687	0.428848189	1	0	0	2	4	6	0	0
177	97.8021978	61.88118812	8.910891089	17	2.678217822	0.357344667	1	0	0	2	5	10	1	0
178	0.869565217	34.48275862	9.852216749	17	3.713541667	0.189673417	1	3	0	4	6	11	1	0
179	3.448275862	60	5	24	1.536082474	9.56 -02	1	3	0	5	8	16	1	0
180	61.03896104	13.44195519	9.368635438	20	4.286610879	0.280867866	1	3	0	7	6	11	1	0
183	50	38.66090713	12.74298056	27	2.968309859	0.105990482	1	4	0	6	6	20	1	0
184	47	42.07317073	7.926829268	25	2.855263158	7.73 -02	1	3	0	3	7	19	1	0
185	0	5.904522613	88.69346734	18	7.442477876	0.783679403	1	0	0	7	3	10	1	0
186	39.08629442	8.746355685	43.80466472	22	5.953574745	0.231152167	1	2	1	4	5	16	0	0
187	4.494382022	19.04761905	3.896103896	22	3.37012987	0.1789447	1	2	0	6	5	16	0	0
188	92.85714286	1.360544218	0.680272109	4	4.691943128	0.206356946	0	2	0	3	1	6	0	0
189	75	3.260869565	4.347826087	8	4.5	0.262064023	1	1	0	5	2	10	1	0
190	30.43478261	50.5	1	15	2.311111111	0.177839196	1	1	0	5	6	12	0	0
191	30.3030303	54.20054201	12.46612466	23	2.345345345	0.146724402	1	2	0	4	6	16	0	0
192	0	49.07407407	8.148148148	19	2.507462687	0.103483818	1	1	0	3	3	13	0	0
193	2.469135802	33.33333333	14.47028424	17	3.332268371	0.122370835	1	2	0	5	5	15	0	0
194	9.090909091	25.06203474	19.85111663	17	3.957264957	0.173326914	1	2	0	4	6	15	0	0
195	27.61020882	19.24759405	9.798775153	19	3.94527897	0.111376183	1	2	0	10	7	17	2	0
196	32.25806452	31.57338965	4.540654699	19	3.232690125	0.111262672	1	2	0	5	6	18	2	0
197	4.285714286	32.62411348	3.90070922	24	2.798969072	0.128214836	1	2	0	5	7	18	1	0
198	0	14	15.33333333	9	4.377358491	0.315525727	1	1	0	3	5	9	2	0
199	0	30.73089701	42.52491694	20	4.818777293	0.256792389	1	1	0	4	4	17	0	0
200	0	31.99481865	32.51295337	20	4.481375358	0.117611876	1	1	1	8	8	16	1	0
201	0	45.71428571	1.538461538	22	1.959501558	0.140978845	1	2	0	7	5	14	0	0
202	11.2244898	9.708737864	7.281553398	10	4.131313131	0.243713	1	2	1	4	4	9	0	0
203	77.14285714	17.99242424	6.439393939	14	3.355	0.408134955	1	2	0	3	6	11	0	0
204	62.40601504	27.2972973	11.62162162	14	3.443850267	0.271793745	1	2	0	4	4	11	1	0

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BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
205	88.55218855	8.905852417	3.562340967	10	3.63	0.461208911	1	1	0	3	4	10	0	0
206	16.30434783	20.10376135	9.079118029	15	3.640826873	0.198797312	1	1	0	7	5	11	1	0
207	2.898550725	31.30990415	10.38338658	13	2.668789809	0.163976997	1	3	0	6	5	11	0	0
208	0	0.502512563	94.22110553	3	7.881748072	0.88813083	1	1	0	4	2	3	0	0
209	15.05791506	15.63539587	24.8170326	25	5.071123755	0.177088344	1	4	1	7	6	19	0	0
210	85.546875	7.584269663	4.775280899	9	3.966292135	0.387830353	1	1	0	4	6	11	0	0
211	24.58100559	28.72928177	15.19337017	8	4.14527027	0.149630401	1	1	2	3	4	12	1	0
212	86.66666667	1.801801802	13.51351351	6	5.428571429	0.195741196	1	1	0	4	4	6	1	0
213	6.930693069	0	26.94610778	4	5.272108844	0.337205108	1	2	2	2	1	5	1	0
214	62.79069767	10.96774194	5.376344086	15	4.478873239	0.142686318	1	2	0	7	5	14	0	0
215	95.69892473	1.342281879	16.27516779	10	6.229885057	0.290880379	1	1	2	3	3	8	0	0
216	85.24590164	1.304347826	25.2173913	7	6.111111111	0.185988229	1	2	0	2	2	8	1	0
217	96.485623	0.725689405	3.773584906	11	4.934065934	0.270053498	1	1	1	4	3	11	0	0
218	98.26589595	0	5.591397849	5	5.082872928	0.209927697	1	3	1	3	3	6	1	0
219	30.25210084	22.42798354	21.60493827	29	4.247457627	8.27 -02	1	1	1	7	8	22	1	0
220	13.04347826	22.94372294	15.58441558	18	4.475	0.120383964	1	2	2	7	5	12	2	0
221	12.41830065	41.79104478	18.50746269	22	3.571428571	0.112143319	1	3	1	5	6	16	1	0
222	34.12162162	8.050221566	6.573116691	20	4.423494571	0.149674502	1	2	1	6	4	15	3	0
223	45.38745387	38.04475854	13.30977621	28	2.966173362	0.147237594	1	2	0	6	4	21	1	0
224	8.088235294	58.3081571	1.812688822	25	2.287197232	0.113192346	1	2	0	5	4	18	1	0
225	0	57.71812081	4.697986577	21	2	0.114275349	1	1	0	6	5	14	1	0
226	0	55.97315436	21.0738255	24	3.430894309	0.121970845	1	2	0	6	5	16	0	0
227	11.6751269	45.46783626	7.602339181	27	2.811715481	8.01 -02	1	3	1	5	6	20	0	0
228	71.66666667	40.96016343	14.50459653	14	2.937943262	0.132335278	1	1	1	5	4	12	1	0
229	19.62616822	25.12077295	33.81642512	13	4.749518304	0.134242377	1	1	1	5	4	13	3	0
230	0	53.64583333	11.28472222	24	2.628131021	0.128876812	1	1	0	4	5	14	0	0
231	30.76923077	57.66233766	4.155844156	26	1.919191919	8.40 -02	1	1	0	5	6	19	0	0
232	3.902439024	50.33707865	4.943820225	36	2.291784703	7.34 -02	1	2	1	8	7	23	1	0
233	9.508196721	50.72886297	4.373177843	35	2.188640974	7.84 -02	1	2	1	5	8	25	1	0
234	50	5.309734513	1.769911504	6	5.411764706	0.431890013	1	2	0	3	3	6	0	0
235	100	4.166666667	12.5	4	4.714285714	0.307971014	1	0	0	3	2	4	0	0
236	0	51.39784946	6.88172043	18	2.407103825	0.12373007	1	1	0	6	4	14	0	0
237	0.967741935	62.61437908	3.267973856	29	2.02827381	0.168497416	1	4	0	5	8	22	0	0
238	67.4556213	41.47398844	12.42774566	34	2.979865772	7.82 -02	1	1	0	7	8	25	1	0
239	0	5.596107056	16.30170316	11	5.619402985	0.343599786	1	1	0	4	5	8	1	0
240	27.65957447	28.6407767	23.54368932	21	4.116666667	0.068870621	1	3	0	4	7	15	2	0
241	55.38461538	16.51376147	11.23853211	18	4.194871795	0.178013287	1	1	2	6	3	10	2	0
242	16.51376147	38.66171004	12.4535316	21	2.883116883	0.152672496	1	4	0	8	5	15	2	0
243	12.96296296	27.6119403	23.50746269	19	4.106060606	6.91 -02	1	2	0	7	6	15	1	0
244	24.46351931	41.91750279	7.915273133	23	2.530179445	0.110221074	1	2	0	5	5	17	1	0
245	24.46351931	41.85267857	7.924107143	25	2.531045752	0.110170591	1	2	0	5	5	18	1	0
246	10.38961039	33.42465753	18.08219178	19	3.486238532	0.125967184	1	2	0	8	4	11	1	0
247	33.33333333	14.62395543	78.55153203	12	6.754609929	0.624895592	1	0	0	3	4	10	0	0
248	14.2384106	18.24274013	45.64408042	21	5.827689243	0.239520925	1	2	2	5	4	16	0	0
249	42.85714286	33.51449275	29.71014493	33	4.357298475	0.12009127	1	2	0	7	8	26	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
250	25	14.60674157	24.15730337	21	4.63190184	0.127213864	1	1	0	3	6	16	1	0
252	60.60606061	22.64808362	32.05574913	8	5.02	0.191515801	1	1	1	4	3	8	2	0
253	88.33333333	19.42257218	7.874015748	16	3.973180077	0.171791684	1	2	0	4	5	12	1	0
254	2.105263158	15.54332875	27.2352132	27	5.18879668	0.153432537	1	3	2	7	6	17	1	0
255	75.15151515	10.21505376	40.05376344	6	6.3930131	0.180259688	1	2	1	4	3	7	2	0
256	50	0	66.41221374	2	7.336780866	0.307125978	1	2	1	4	1	4	2	0
257	70.73170732	32.22222222	23.7037037	6	4.524271845	0.175877736	1	2	1	4	4	7	1	0
258	5.555555556	1.302931596	16.61237785	10	5.036290323	0.128121607	1	2	1	4	5	10	0	0
259	0	43.02325581	13.95348837	19	3.095	0.144738982	1	1	0	3	4	14	1	0
260	14.28571429	16.93811075	18.24104235	17	4.312757202	0.125268783	1	3	0	5	6	14	2	0
261	0	20.57877814	26.04501608	22	4.486956522	9.83 -02	1	2	0	5	8	17	2	0
262	68.08510638	29.7008547	6.837606838	28	3.92345679	0.157872582	1	2	0	10	7	17	1	0
263	10.9375	26.88172043	5.376344086	19	2.970588235	8.74 -02	1	1	0	5	5	17	1	0
264	13.88888889	15.56886228	7.784431138	14	3.597014925	0.174518433	1	2	0	3	4	13	0	0
265	0	31.95266272	29.8816568	13	4.124481328	0.170842625	1	1	1	3	6	12	1	0
266	8.333333333	2.586206897	56.03448276	5	6.571428571	0.293253373	1	1	2	2	3	6	0	0
267	77.77777778	0.869565217	20.86956522	4	5.505050505	0.1266209	1	5	0	3	2	4	1	0
268	22.80701754	15.6779661	7.415254237	7	3.884444444	0.121477923	1	3	2	2	3	7	2	0
269	35.29411765	18.94736842	13.68421053	7	4.158730159	0.103471445	1	2	2	1	3	7	0	0
270	45.45454545	0.869565217	14.7826087	9	5.165	9.55 -02	1	2	3	3	5	10	1	0
271	26.31578947	16.79389313	20.22900763	8	4.291139241	0.140504811	1	5	1	4	4	7	0	0
272	0	0	77.90697674	0	8	0.272777018	1	2	1	1	0	0	1	0
273	20	16.92307692	9.230769231	5	4.363636364	0.152403846	1	1	0	5	2	4	0	0
274	0	19.95967742	6.451612903	21	3.623076923	0.235198762	1	3	1	3	5	16	0	0
275	0	46.45522388	18.28358209	20	3.521384929	0.153543033	1	3	0	7	6	16	1	0
276	73.91304348	29.19708029	21.37643379	23	4.41025641	9.23 -02	1	3	3	9	6	18	3	0
277	38.23529412	20.04689332	16.52989449	18	4.410652921	9.93 -02	1	2	1	7	5	18	3	0
278	0	13.55932203	1.694915254	15	3.616883117	0.219119158	1	3	0	3	4	10	0	0
279	19.86754967	4.895104895	13.63636364	12	4.710280374	0.112378849	1	2	1	2	6	15	0	0
280	32.0754717	21.2962963	5.555555556	13	3.881889764	0.123428079	1	2	1	5	4	11	0	0
281	68.42105263	20	1.951219512	8	3.733870968	0.136824486	1	2	0	3	3	8	0	0
282	0	0.724637681	7.608695652	6	5.253623188	0.284242424	1	1	1	3	4	5	1	0
283	100	0	75.83892617	1	7.451388889	0.583801923	1	1	0	3	1	2	0	0
284	61.40350877	13.58024691	1.851851852	12	3.52892562	0.190399509	0	0	2	2	3	9	0	0
285	2.620087336	21.67721519	1.265822785	25	3.098484848	0.196368031	1	3	1	6	4	16	1	0
286	100	2.702702703	2.702702703	6	5.412698413	0.35579415	1	2	0	4	2	5	1	0
287	71.42857143	5.303030303	21.96969697	6	6.230088496	0.349178811	1	1	0	4	2	5	1	0
288	7.518796992	34.35897436	2.051282051	15	2.693333333	0.20666138	1	2	1	3	3	13	0	0
289	0	47.10743802	9.917355372	16	2.86746988	0.11322314	1	1	0	4	3	13	1	0
290	0	49.38101788	24.62173315	20	3.41322314	0.146085085	1	2	1	7	5	17	1	0
291	11.35371179	39.52702703	15.87837838	36	3.432489451	7.72 -02	1	2	0	7	8	25	1	0
292	20.21276596	25	22.61029412	30	4.23501199	7.71 -02	1	2	1	7	6	23	1	0
293	0	56.98447894	32.59423503	22	3.841607565	0.194905149	1	1	0	6	3	12	0	0
294	2.857142857	47.99357945	16.05136437	26	3.292682927	7.35 -02	1	3	1	8	8	19	0	0
295	74.0625	25.75957728	17.7014531	12	4.183266932	0.123642653	1	2	2	5	4	13	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
296	98.10996564	19.30207197	9.814612868	21	3.901482127	0.301453356	1	2	2	7	4	17	2	0
297	0	16.08040201	1.172529313	23	3.463709677	0.22777759	1	3	0	6	6	15	0	0
298	80	54.88721805	13.90977444	24	2.575129534	0.107220882	1	1	0	5	4	18	0	0
299	46.98795181	61.58357771	8.504398827	28	2.267657993	0.110246679	1	2	0	7	6	19	0	0
300	18.11023622	50.7082153	3.116147309	30	2.045774648	8.77 -02	1	1	0	6	6	19	0	0
301	20	67.85714286	2.040816327	20	1.427672956	0.104395604	1	1	0	6	4	15	1	0
302	57.14285714	13.86138614	1.98019802	8	3.857142857	0.300792079	1	2	0	3	3	7	1	0
303	41.66666667	22.4137931	1.724137931	13	3.292682927	0.149425287	1	1	0	4	3	8	0	0
304	11.70212766	36.57587549	5.058365759	21	1.905797101	0.190205496	1	2	0	8	4	13	1	0
305	11.42857143	31.66666667	0.555555556	21	2.586466165	0.157231533	1	1	0	5	4	18	0	0
306	10	21.56862745	0	16	2.727272727	9.18 -02	0	2	0	2	5	12	0	0
307	1.587301587	25.5985267	28.54511971	25	4.458174905	0.117360842	1	2	0	8	5	17	1	0
308	91.54929577	3.483606557	6.967213115	9	4.425427873	0.292515232	0	4	1	2	5	7	0	0
309	11.53846154	23.97260274	9.589041096	16	3.411764706	0.119603212	1	1	0	3	5	15	1	0
310	26.47058824	16.765286	9.072978304	19	4.549098196	0.171675593	1	1	0	4	5	13	1	0
311	35.29411765	39.13043478	15.94202899	16	3.08	9.08 -02	1	2	0	2	5	11	1	0
312	36.81318681	46.3401507	5.920344456	12	2.86972973	0.343146956	1	0	0	3	5	13	2	0
313	28.57142857	50.43290043	3.896103896	12	2.649890591	0.330713394	1	0	0	2	4	11	1	0
314	59.52380952	6.821705426	46.35658915	13	5.790697674	0.273230255	1	0	0	3	7	11	4	0
315	79.18552036	6.979865772	23.62416107	12	5.018817204	0.244579264	1	0	0	3	6	12	2	0
316	81.77623991	1.429772918	4.205214466	7	4.79055794	0.370993365	1	3	2	5	2	7	1	0
317	81.63265306	19.3236715	10.14492754	11	4.213541667	0.128230383	1	1	0	5	7	12	2	0
318	62.96296296	21.10091743	24.7706422	10	4.524752475	0.099728169	1	1	0	2	5	10	2	0
319	77.83783784	10.1939558	53.67613893	12	6.185934489	0.312729092	1	0	0	3	5	9	2	0
320	60	3.523693803	65.49210207	8	6.83042394	0.284035914	1	0	0	6	3	6	2	0
321	0	0	42.85714286	0	6.666666667	0.447619048	1	1	0	1	0	0	0	0
322	0	0	48.48484848	0	6.727272727	0.365530303	1	1	0	1	0	0	0	0
323	100	2.222222222	15.55555556	4	5.358974359	0.246464646	1	1	1	3	1	2	0	0
324	100	1.652892562	45.45454545	3	6.279661017	0.161294766	1	1	1	3	3	4	1	0
325	100	0	29.03225806	3	5.806451613	0.324167107	1	1	1	1	3	4	1	0
326	100	0	18.00766284	4	5.440613027	0.46766873	1	2	2	1	3	4	0	0
327	88.46153846	8.875739645	10.65088757	13	4.49691358	0.141730901	1	2	0	4	7	11	2	0
328	0	0	23.85321101	1	6.453703704	0.586628704	1	0	0	3	0	1	1	0
329	76.84729064	2.131782946	1.259689922	6	4.746583851	0.416818923	1	1	1	4	1	4	1	0
330	73.65591398	4.478997447	1.833372012	7	4.029901269	0.404576653	1	1	1	3	4	12	2	0
331	67.33067729	20.33898305	14.91525424	15	4.264270613	0.147402952	1	2	0	7	4	13	1	0
332	38.84297521	6.025492468	21.4368482	15	5.369614512	9.76 -02	1	3	0	9	6	16	1	0
333	95.27559055	3.112840467	2.723735409	10	4.678947368	0.285901021	1	2	0	4	5	9	1	0
334	94.9478749	2.745098039	4.31372549	19	4.923327896	0.234817921	1	3	1	3	6	18	1	0
335	94.82758621	11.16751269	0	10	3.979651163	0.270934243	0	1	1	3	2	9	0	0
336	0	3.571428571	45.71428571	9	6.5	0.355292909	1	0	1	3	2	5	1	0
337	66.66666667	11.93181818	33.52272727	11	5.023529412	0.282142857	1	0	0	3	3	8	0	0
338	67.5	1.134215501	30.52930057	14	5.521823472	0.35254036	1	0	1	4	4	9	1	0
339	52.99145299	8.258258258	18.31831832	12	4.941956882	0.236334078	1	0	0	5	4	9	2	0
340	87.5	8.398950131	52.88713911	10	6.545092838	0.254631115	1	0	1	3	4	8	4	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
341	88.88888889	15.36312849	66.20111732	6	6.372881356	0.271082735	1	0	0	3	2	5	3	0
342	80	7.221006565	61.70678337	9	6.738461538	0.434709586	1	0	0	5	4	7	1	0
343	86.11111111	41.35338346	37.3433584	12	4.233502538	0.221835997	1	0	0	2	4	10	2	0
344	71.21212121	5.583126551	19.60297767	7	5.056890013	0.309609605	1	3	1	5	2	5	1	0
345	0	67.28971963	13.08411215	27	2.150537634	8.64 -02	1	1	0	6	6	22	1	0
346	39.8249453	27.83964365	17.81737194	23	4.007497657	0.110367985	1	1	0	8	5	16	0	0
347	19.43127962	55.21472393	5.316973415	27	2.141809291	0.143920346	1	3	0	6	6	17	1	0
348	22.8956229	32.82172373	17.11924439	28	3.604137931	9.35 -02	1	2	0	7	5	22	1	0
349	0.99009901	51.52224824	4.683840749	33	2.161803714	9.07 -02	1	1	0	7	6	23	1	0
350	2.919708029	31.16490166	33.43419062	28	4.492395437	0.147150782	1	1	0	4	7	22	0	0
351	0	11.61417323	67.12598425	12	6.909090909	0.462361584	1	0	0	4	5	12	0	0
352	0	42.66666667	6.666666667	17	2.410958904	0.10916221	1	2	0	3	6	17	0	0
353	8.333333333	37.4501992	14.34262948	14	3.299435028	0.162517928	1	1	0	3	4	12	0	0
354	13.04347826	51.06382979	4.255319149	8	2.475609756	0.277739648	1	0	0	3	3	9	0	0
355	0	90.69767442	1.162790698	9	1.180722892	0.683447332	1	1	0	3	4	6	0	0
356	0.523560209	46.97508897	5.693950178	8	2.712643678	0.256761566	1	0	0	3	3	8	0	0
357	1.685393258	43.54166667	1.666666667	25	2.129213483	0.132054628	1	1	0	6	5	17	0	0
358	4.587155963	50.40322581	4.838709677	15	2.480686695	0.229267337	1	1	0	2	5	12	0	0
359	15.81196581	43.92523364	1.682242991	19	2.224096386	0.156372292	1	2	0	6	5	14	0	0
360	5.806451613	54.32098765	1.851851852	15	2.087719298	0.160818713	1	1	0	4	6	13	0	0
361	10.81081081	43.11111111	4.888888889	16	2.432960894	0.147032913	1	1	0	5	5	15	0	0
362	0	47.02072539	28.10880829	24	3.895125554	0.136734474	1	2	0	7	5	16	1	0
363	1.398601399	66.30901288	14.16309013	23	2.709459459	0.194803637	1	2	0	7	3	17	1	0
364	0	37.74104683	23.14049587	20	3.626086957	0.171407698	1	1	0	5	6	14	1	0
365	0	32.51141553	50.50228311	21	4.938492063	0.314103495	1	2	0	6	3	14	0	0
366	4.255319149	33.33333333	3.03030303	16	2.461988304	0.185883682	1	2	0	6	6	15	0	0
367	37.5	20.46511628	25.58139535	16	4.52284264	0.187089763	1	1	0	4	6	12	0	0
368	4.918032787	13.20754717	5.660377358	12	3.941176471	0.187960467	1	0	0	5	5	9	0	0
369	96	0.172018349	2.006880734	8	4.438150289	0.250663203	1	1	1	3	3	8	1	0
370	81.08108108	12.31527094	11.8226601	6	4.325757576	0.179729796	1	1	0	4	4	6	1	0
371	100	57.45454545	5.454545455	10	2.705882353	0.17127339	1	2	0	5	7	8	0	0
372	57.14285714	3.236245955	46.11650485	10	6.704572098	0.285411999	1	3	1	4	6	10	1	0
373	41.17647059	35.88957055	10.42944785	10	3.643939394	0.153298726	1	4	0	4	5	9	1	0
374	97.6121563	0.436893204	25.04854369	11	6.806833114	0.248934844	1	1	3	4	4	9	0	0
375	23.21428571	19.14893617	1.418439716	18	3.445770065	0.290177993	1	1	0	5	4	13	0	0
376	2.325581395	21.22641509	44.81132075	8	5.7	0.270365734	1	1	0	2	4	8	0	0
377	50	25.23364486	28.03738318	11	4.852040816	0.150366373	1	2	0	3	5	8	0	0
378	20	21.07279693	35.24904215	11	5.490740741	0.167904509	1	2	0	4	5	9	0	0
380	33.33333333	7.36196319	20.24539877	7	5.158536585	0.288798	1	1	0	1	5	7	1	0
381	95.625	0.495049505	9.240924092	7	5.562822719	0.247601124	1	2	4	4	3	6	1	0
383	22.22222222	2.43902439	29.26829268	9	5.493670886	0.167364956	1	3	1	3	4	8	0	0
384	38.647343	7.432432432	31.75675676	10	5.912133891	0.15239054	1	2	1	2	4	10	0	0
385	0.666666667	49.46236559	14.6953405	7	2.537848606	0.293494237	1	1	1	1	3	8	0	0
386	33.33333333	12.6984127	58.73015873	10	6.048387097	0.365079365	1	0	0	2	4	8	0	0
387	100	26.5060241	18.07228916	9	3.882352941	0.195121951	1	1	0	1	6	8	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
388	100	4.511278195	12.03007519	2	6.090909091	0.673957621	1	0	0	1	2	3	0	0
389	0	5.454545455	65.45454545	3	6.709090909	0.266889074	1	0	0	3	1	1	0	0
390	94.91525424	0	25.625	3	5.632107023	0.172237461	1	1	4	6	1	4	0	0
391	100	0.406504065	39.43089431	4	5.743902439	0.226779492	1	1	0	3	3	6	1	0
392	0	0	15.625	3	6.193548387	0.462719298	1	4	0	5	1	1	0	0
393	0	10.21416804	11.36738056	6	5.469421488	0.398236199	1	1	0	5	3	5	1	0
394	0	71.75	2.375	20	2.477820025	0.372637672	1	4	0	5	5	11	1	0
396	0	1.604278075	9.49197861	4	4.368983957	0.782688687	1	2	0	4	1	2	1	0
397	21.17263844	24.55696203	49.45147679	13	5.380816714	0.277037005	1	2	0	3	5	10	1	0
398	40.86687307	23.8150289	8.439306358	18	3.587706147	0.137384928	1	2	0	5	7	14	1	0
399	98.8372093	7.858769932	4.555808656	10	4.169703872	0.405485152	1	0	0	2	5	8	0	0
400	63.38797814	15.05016722	21.90635452	12	4.837837838	0.155437164	1	3	0	4	3	9	0	0
401	44.11764706	26.64359862	7.612456747	10	3.67896679	0.228397732	1	2	0	3	4	8	1	0
402	98.61111111	6.060606061	24.07407407	11	5.67752443	0.182914019	1	2	0	7	5	10	1	0
403	100	1.072961373	19.09871245	7	5.404411765	0.173925771	1	3	0	5	4	6	2	0
404	79.87421384	6.891025641	11.21794872	9	4.414860681	0.183042145	1	2	1	2	4	9	1	0
405	13.26530612	49.2917847	11.898017	10	2.25	0.284895699	1	2	0	2	6	10	2	0
406	7.692307692	58.60805861	2.564102564	20	2.134387352	0.180726137	1	3	0	2	6	15	1	0
407	7.547169811	10.47381546	1.496259352	19	4.286231884	0.149401496	1	2	0	5	6	15	0	0
408	18.38235294	54.23728814	2.448210923	20	2.587467363	0.256582454	1	3	1	5	5	16	1	0
409	1.234567901	23.12138728	0.867052023	19	3.709219858	0.15152886	1	2	0	4	6	16	1	0
410	42.62295082	16.66666667	5.208333333	20	3.675213675	8.38 -02	1	2	0	6	6	18	1	0
411	2.352941176	46.91780822	10.61643836	21	2.451361868	0.121851904	1	1	0	4	4	16	1	0
412	0	0.161030596	73.91304348	5	7.014634146	0.432169757	1	2	2	2	2	2	2	0
413	76.19047619	1.526717557	48.66412214	14	6.607758621	0.187256433	1	1	1	5	5	12	1	0
414	43.24324324	5.527638191	7.286432161	18	4.686635945	0.158993962	1	2	1	5	4	13	2	0
415	99.66555184	8.763693271	8.607198748	11	5.059139785	0.259432597	1	1	0	5	4	9	0	0
416	97.51552795	8.284023669	28.00788955	12	5.867595819	0.182402881	1	1	2	4	4	11	1	0
417	17.30769231	0.09569378	14.44976077	4	6.343881857	0.232871363	1	2	2	5	1	4	3	0
418	93.10344828	3.339517625	42.85714286	13	6.288659794	0.179893924	1	1	0	4	4	10	2	0
419	12.5	3.304347826	32.34782609	11	6.517605634	0.338294198	1	1	3	6	4	12	2	0
420	81.95488722	5.823293173	1.807228916	8	4.285714286	0.195672024	1	1	0	4	3	9	0	0
421	92.54079254	3.288201161	18.66537718	10	5.212268744	0.258103475	1	3	0	3	1	7	1	0
422	100	16.73151751	15.95330739	7	4.492063492	0.197349222	1	1	0	4	3	6	1	0
423	3.50877193	0.141442716	13.71994342	7	5.605714286	0.284572326	1	1	1	4	3	7	0	0
424	17.07317073	4.455445545	2.062706271	15	4.000839631	0.78220002	1	3	0	4	4	11	1	0
425	20.33898305	5.53633218	10.29411765	15	5.045658013	0.243360446	1	3	0	4	2	11	1	0
426	20.63492063	30.99547511	10.63348416	26	3.442352941	0.120427658	1	3	0	7	6	16	0	0
427	85.9375	9.156626506	20.48192771	13	5.143356643	0.145428089	1	1	1	9	1	8	0	0
428	93.61702128	24.44987775	3.178484108	15	3.984848485	8.77 -02	1	3	0	6	6	12	0	0
429	32.62411348	11.49635036	9.489051095	12	4.645238095	8.52 -02	1	4	1	3	3	14	2	0
431	100	1.470588235	14.70588235	8	4.861538462	0.206318083	1	3	0	3	3	4	1	0
433	77.46478873	8.849557522	29.20353982	10	5.461538462	0.113235005	1	2	0	8	4	9	2	0
434	51.3368984	5.4375	33.625	11	6.588661037	0.208434178	1	3	1	6	4	10	2	0
435	50	14.93506494	6.493506494	13	3.414285714	0.165605636	1	2	1	4	3	10	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
436	45.4954955	17	2.333333333	13	2.975206612	0.18361204	1	1	1	3	1	9	0	0
437	44.82758621	13.68421053	2.105263158	5	3.194444444	0.16506159	0	0	0	2	2	6	0	0
438	39.87341772	34.80825959	4.424778761	18	3.179282869	0.147213349	1	2	0	5	3	18	1	0
439	67.30769231	27.45098039	6.862745098	19	3.163934426	0.15589206	1	2	0	5	4	12	0	0
440	26.02739726	57.02702703	3.783783784	8	1.832089552	0.355804585	1	2	1	3	3	10	0	0
441	75.38461538	16.50485437	0.970873786	9	2.8	0.264610699	1	1	0	3	3	9	0	0
442	82.53424658	0	12.01044386	2	5.649395509	0.222764894	1	0	0	2	2	4	2	0
443	17.64705882	0	42.90322581	3	6.374792703	0.246484965	1	0	0	3	3	5	2	0
444	20	0	69.40114848	4	7.275635767	0.531294999	1	1	0	5	2	5	0	0
445	0	0	10.43132456	1	6.207096972	0.803115053	1	4	0	4	0	0	2	0
446	27.27272727	6.506849315	29.10958904	8	6.20661157	0.37172245	1	2	1	2	4	8	1	0
447	66.66666667	22.60869565	23.47826087	8	4.273148148	0.226011012	1	1	0	2	6	8	2	0
448	78.84615385	5.744125326	4.960835509	11	4.220338983	0.200702637	1	3	0	3	5	11	2	0
450	77.14285714	12.22707424	4.80349345	13	4.069444444	0.118861564	1	3	1	5	7	11	2	0
451	74.13793103	29.46954813	2.750491159	12	3.422764228	0.135149978	1	4	0	3	7	12	2	0
452	80.21978022	7.107843137	4.901960784	18	4.890652557	0.172146036	1	2	1	4	6	14	1	0
453	85.41666667	7.547169811	9.853249476	10	4.837349398	0.213669115	1	1	0	5	6	10	1	0
454	97.91666667	2.011494253	11.20689655	9	5.181818182	0.214912717	1	1	1	6	5	8	1	0
455	96.64804469	0.523560209	3.926701571	9	5.142857143	0.344038147	1	1	0	6	4	8	1	0
456	10	14.81481481	1.587301587	8	4.306451613	0.322863897	1	1	0	3	3	6	1	0
457	72.72727273	13.79310345	6.896551724	10	3.754098361	0.198342689	1	0	0	4	3	10	1	0
458	2.89017341	0	31.55149935	5	6.090225564	0.131818043	1	2	1	4	2	6	3	0
459	0	0	16.66666667	0	8	0.507267644	0	0	1	0	1	1	0	0
460	100	0	24.22907489	1	6.180904523	0.217106546	1	0	1	2	2	3	2	0
461	100	0	27.65957447	2	6.052173913	0.167983789	1	2	1	2	2	3	1	0
462	92.85714286	2.197802198	24.17582418	5	5.349206349	0.177045177	1	2	0	1	4	6	1	0
463	91.07142857	1.960784314	16.66666667	5	5.722222222	0.285963891	1	1	0	1	3	6	0	0
464	25.45454545	40.06734007	15.15151515	15	3.291512915	0.15990991	1	2	1	3	5	11	1	0
465	56.06557377	19.69178082	17.6369863	8	4.182080925	0.174316831	1	2	0	3	4	8	0	0
466	45.97249509	17.63485477	18.46473029	27	4.205578512	0.111696267	1	2	3	8	7	21	1	0
467	36.8852459	9.944237918	61.61710037	22	6.385148515	0.395155183	1	0	0	6	4	18	0	0
468	13.95348837	58.52090032	3.8585209	20	2.476027397	0.149818484	1	1	0	4	5	13	1	0
469	98.07692308	5.263157895	1.754385965	5	3.983333333	0.382238783	1	0	0	4	2	6	1	0
470	85.71428571	23.33333333	3.333333333	9	3.405063291	0.394007491	1	0	0	3	3	7	0	0
471	62.5	30	13	17	3.370786517	0.215555556	1	0	0	2	4	12	2	0
472	1.030927835	0.146627566	29.3255132	6	5.321958457	0.196890031	1	2	2	7	2	7	3	0
473	19.60784314	0.103626943	23.31606218	5	5.963157895	0.299436717	1	2	3	6	2	6	1	0
474	3.571428571	0.884955752	29.42477876	7	5.738064516	0.145691843	1	1	1	7	3	8	1	0
475	3.816793893	14.20940171	41.34615385	12	5.892326733	0.224676631	1	2	0	5	5	9	1	0
476	36.84210526	15.81291759	51.44766147	10	5.780722892	0.235334473	1	3	1	3	5	9	1	0
477	35.18518519	19.6369637	54.78547855	9	5.886051081	0.261009737	1	2	2	4	4	8	1	0
478	95.65217391	2.777777778	0	1	5.071428571	0.392063492	0	1	3	1	1	3	0	0
479	61.9047619	15.72052402	1.746724891	7	4.296650718	0.195165862	1	2	0	2	4	9	0	0
480	100	0	20.99236641	3	5.412955466	0.167704952	1	2	2	2	2	3	1	0
481	75	5.347593583	1.604278075	12	4.161290323	0.27255477	1	2	0	2	3	9	1	0

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BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
482	58.33333333	28.94736842	5.789473684	6	4.098159509	0.195711501	1	3	0	3	3	7	0	0
483	87.65432099	19.92031873	7.96812749	6	4.070422535	0.157960159	1	2	0	2	4	8	0	0
484	95.45454545	9.318996416	7.168458781	6	4.576763485	0.206647585	1	2	0	3	4	6	0	0
485	78.94736842	14.4278607	4.975124378	8	4.349206349	0.23761194	1	3	0	3	4	8	0	0
486	1.729106628	6.655290102	3.412969283	19	4.001736111	0.326390712	1	4	0	8	5	12	0	0
487	2.181208054	5.243445693	4.744069913	17	4.081258191	0.502587391	1	4	0	6	4	12	0	0
488	17.36526946	12.36363636	5.454545455	18	4.018450185	0.252395488	1	3	0	5	5	10	0	0
489	67.94871795	33.8658147	3.833865815	21	3.554621849	0.115732776	1	3	0	4	4	16	1	0
490	100	0	25	0	7.166666667	0.266666667	1	0	0	2	1	2	0	0
491	80	3.703703704	22.22222222	6	5.5625	0.113960114	1	1	0	3	4	7	0	0
492	92.30769231	6.976744186	18.60465116	6	5.785714286	0.204872647	1	1	0	2	3	6	0	0
493	94.11764706	4.411764706	12.05882353	13	4.676975945	0.186985945	1	2	0	5	2	9	0	0
494	92.10526316	23.78223496	4.011461318	11	4.579104478	0.168214603	1	4	0	4	5	10	0	0
495	78.52348993	19.71830986	6.690140845	13	4.254480287	0.1368387	1	3	0	3	6	12	2	0
496	90.20979021	30.37974684	4.430379747	8	3.20754717	0.230098453	1	2	1	4	3	9	1	0
497	62.31884058	9.239130435	7.336956522	19	4.053333333	0.392711172	1	1	0	5	7	19	1	0
498	18.75	42.03821656	5.095541401	18	3.111864407	0.137258094	1	2	1	5	4	13	1	0
499	66.1971831	40.89347079	5.154639175	15	3.298319328	0.124114232	1	2	0	3	6	16	1	0
500	71.15384615	6.015037594	1.127819549	10	4.234899329	0.149297773	1	2	0	1	4	11	1	0
501	29.49640288	37.79264214	8.695652174	15	3.4	0.106350026	1	2	0	4	3	12	1	0
502	94.02985075	13.79310345	0.985221675	18	3.833333333	0.22230893	1	3	0	5	6	13	0	0
503	95.91836735	5.64516129	2.419354839	15	4.551282051	0.293848766	1	2	0	2	6	12	0	0
504	15.86206897	35.47169811	13.58490566	19	3.270588235	0.115866209	1	2	2	4	4	14	0	0
505	71.33333333	35.7615894	1.324503311	18	1.980769231	0.18153616	1	1	0	4	4	14	0	0
506	90.53254438	1.474926254	3.539823009	8	4.413793103	0.2960849	1	2	1	5	2	8	1	0
507	71.52317881	8.888888889	2.592592593	15	4.275862069	0.134958006	0	2	1	2	4	11	0	0
508	65.46391753	32.09459459	2.027027027	18	2.506666667	0.137929455	1	1	0	6	6	19	0	0
509	62.8742515	32.43243243	0.675675676	22	1.630769231	0.136349061	1	2	0	6	5	21	0	0
510	98.13953488	10.59431525	1.550387597	15	3.684563758	0.224940086	1	2	0	4	3	14	1	0
511	84.76190476	17.10144928	7.246376812	13	4.087431694	0.195466801	1	1	2	4	5	12	1	0
512	60.30534351	47.53521127	3.169014085	15	1.484076433	0.153486289	1	1	0	6	4	13	0	0
513	97.57281553	6.593406593	5.128205128	11	4.85	0.285822021	1	1	0	4	5	13	0	0
514	5.806451613	47.92332268	1.916932907	21	2.561538462	0.140984681	1	2	0	5	5	16	1	0
515	0	63.10679612	15.53398058	11	2.681818182	0.166190748	1	1	0	5	1	7	1	0
516	0	44.81946625	35.71428571	21	4.036059807	0.173171571	1	1	1	6	5	14	1	0
517	50	25.80645161	11.11111111	20	4.045454545	8.63 -02	1	1	1	5	5	15	4	0
518	40	18.94736842	25.52631579	18	5.199203187	0.083113456	1	1	2	5	6	18	3	0
519	82.53968254	8.540925267	17.43772242	9	4.945454545	0.128673106	1	1	2	4	2	10	1	0
520	8.823529412	15.54054054	1.013513514	13	3.65	0.327668346	1	1	1	4	4	9	1	0
521	80.17241379	4.901960784	14.70588235	14	4.852517986	0.157655631	1	2	1	3	5	13	2	0
522	67.79661017	17.37804878	17.07317073	18	4.392982456	0.116301186	1	1	0	8	5	13	1	0
523	0	17.64705882	71.17647059	4	6.723529412	0.503097807	1	3	0	3	0	2	1	0
524	97.54601227	3.87755102	1.224489796	10	4.343902439	0.202086724	0	1	1	2	4	9	2	0
525	69.44444444	18.03278689	11.14754098	19	3.971590909	6.42 -02	1	1	3	5	6	18	2	0
526	56.98924731	23.74670185	8.707124011	15	3.788461538	8.43 -02	1	1	2	5	5	11	2	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
527	53.44827586	27.15231788	9.602649007	22	3.8125	8.58 -02	1	1	1	3	6	18	1	0
528	47.76119403	25.55205047	8.201892744	18	3.652968037	0.071097712	1	1	1	3	6	18	2	0
529	100	13.49693252	7.975460123	5	5.271875	0.291873525	1	2	0	2	2	4	0	0
530	0	0	2.222222222	1	4.222222222	0.829292929	0	0	0	2	1	1	1	0
531	0	29.3768546	1.18694362	18	3.306930693	0.143634308	1	3	0	4	5	13	0	0
532	0	32.49097473	4.332129964	18	3.426356589	0.16580338	1	3	0	4	5	12	1	0
533	0	10.03344482	24.74916388	21	4.733333333	0.321025342	1	2	0	5	6	15	0	0
534	42.85714286	21.94092827	51.47679325	8	5.472081218	0.312593864	1	1	0	2	5	10	0	0
535	0	38.96713615	23.94366197	25	3.670103093	0.127646381	1	1	0	4	7	16	0	0
536	71.42857143	14.11764706	32.94117647	8	5.297297297	0.125791855	1	2	0	4	4	8	3	0
537	56.41025641	7.530120482	13.85542169	8	4.436241611	0.360190005	1	1	0	7	3	7	2	0
538	0	6.048387097	72.98387097	6	7.439130435	0.300248139	1	0	1	3	3	5	1	0
539	0	2.024291498	74.89878543	8	7.417777778	0.529574405	1	1	2	3	4	6	1	0
540	72.72727273	10.46511628	9.302325581	7	4.19047619	0.209849521	1	1	1	2	4	9	1	0
541	98.29059829	3.618421053	24.01315789	10	5.560714286	0.205033003	1	3	0	6	4	11	1	0
542	0	38.46153846	11.53846154	23	3.817813765	9.39 -02	1	3	0	10	4	12	1	0
543	0	50.7082153	5.949008499	21	3.07165109	0.174253155	1	3	0	9	5	13	1	0
544	0	25.23961661	17.25239617	7	4.05483871	0.262861473	1	2	2	2	2	3	0	0
545	15.90909091	16.87242798	11.52263374	13	4.279166667	0.135870489	1	1	2	4	2	8	0	0
546	3.086419753	67.64705882	7.189542484	16	2.161403509	0.282910104	1	3	0	5	8	14	1	0
547	76.51515152	17.85714286	11.68831169	23	4.09039548	0.157007488	1	4	1	6	5	16	0	0
548	100	0.898203593	5.688622754	6	4.36036036	0.460538383	1	1	0	3	2	6	1	0
549	40.54054054	50.80645161	20.16129032	17	2.820512821	0.265390924	1	2	0	6	3	11	0	0
550	28.57142857	32.42846662	26.63242847	13	3.831469649	0.240909219	1	2	0	8	3	10	0	0
551	88.4083045	8.903133903	7.264957265	12	4.432116788	0.306991983	1	3	1	6	3	10	0	0
552	89.80392157	9.801084991	6.50994575	19	4.29004329	0.251334391	1	3	0	5	4	14	0	0
553	35.91549296	37.48140803	10.31234507	24	2.91160221	9.24 -02	1	1	0	5	6	18	1	0
554	6.432748538	9.156279962	32.26270374	14	6.300940439	0.332191204	1	1	0	9	4	8	0	0
555	3.225806452	19.37753721	37.99729364	23	5.132737276	0.169053219	1	2	0	7	6	15	2	0
556	0	63.02277433	12.87784679	22	2.438548753	9.52 -02	1	1	0	5	7	17	0	0
558	7.04845815	22.70072993	35.18248175	16	4.905609973	0.175654176	1	2	0	9	4	11	1	0
559	4.743833017	31.65618449	17.29559748	17	3.488151659	0.26003995	1	2	1	8	5	14	1	0
560	13.46153846	24.91704374	39.24585219	16	5.150091075	0.211895991	1	1	0	9	4	9	1	0
561	13.53276353	20.84909626	18.03278689	30	4.131004367	9.92 -02	1	3	2	6	5	22	0	0
562	0	2.463054187	2.463054187	7	4.068965517	0.876066917	1	0	0	4	1	3	0	0
563	18.18181818	5.067567568	5.067567568	6	4.189003436	0.602404947	1	3	0	7	2	5	0	0
564	0	0.847457627	33.47457627	8	5.472340426	0.213919942	1	6	1	5	3	4	2	0
565	66.66666667	0.613496933	50.61349693	6	6.340490798	0.224502124	1	4	1	8	2	4	0	0
566	0	0	0	2	4	0.714285714	0	1	0	0	1	1	0	0
567	100	0	45.45454545	2	6.363636364	7.27 -02	1	0	0	3	2	3	0	0
568	0	37.55868545	1.877934272	20	2.715909091	0.114403402	1	2	0	4	6	12	0	0
569	22.64150943	37.57225434	0	19	2.479338843	0.103911816	0	2	0	2	6	15	0	0
570	46	48.7804878	9.756097561	17	2.834745763	0.174240394	1	2	2	5	7	16	0	0
571	65.93886463	11.25827815	4.635761589	15	4.491803279	0.280873908	1	2	1	6	5	15	1	0
572	64.13043478	23.61809045	6.532663317	14	3.859872611	0.136135222	1	2	1	3	6	16	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
573	6.818181818	14.34782609	25.2173913	14	4.86407767	9.18 -02	1	4	2	5	3	9	1	0
574	92.34693878	27.40740741	1.111111111	18	3.832061069	0.469089908	0	0	1	0	6	12	1	0
575	56	9.2	21.2	11	5.423255814	0.131951807	1	2	2	5	4	9	0	0
576	38.63636364	0.37593985	43.60902256	8	5.995934959	0.258731735	1	0	0	5	2	7	1	0
577	28.57142857	12.25165563	10.26490066	8	4.149006623	0.595278432	1	0	1	3	3	6	2	0
578	83.33333333	6.896551724	0	10	3.935672515	0.554049565	0	0	0	0	4	10	0	0
579	86.04651163	5.394190871	8.298755187	12	4.337552743	0.419121715	1	0	0	3	4	11	0	0
580	76.36363636	17.10526316	24.34210526	6	5	0.143429766	1	1	1	5	2	7	0	0
581	93.75	0.854700855	29.05982906	6	5.264957265	0.351016799	1	0	1	2	2	4	0	0
582	71.12676056	34.38485804	14.1955836	23	3.87254902	0.152537635	1	2	2	4	5	18	1	0
583	88.69565217	49.53560372	6.811145511	14	3.07641196	0.219487337	1	1	2	4	7	13	0	0
584	87.23404255	28.03738318	4.672897196	13	2.47826087	0.177217422	1	2	0	5	5	10	0	0
585	77.02702703	17.41935484	26.4516129	18	5.018348624	0.106670842	1	1	2	7	8	17	3	0
586	71.42857143	25.78125	17.578125	18	4.301507538	0.10692402	1	1	1	6	7	16	1	0
587	27.27272727	15.95744681	7.978723404	16	3.863636364	0.426840369	1	1	1	3	4	11	0	0
588	49.05660377	27.23004695	2.34741784	12	3.433962264	0.130702454	0	0	2	0	4	11	0	0
589	0	23.17073171	3.658536585	9	1.884615385	0.465522433	1	1	0	1	2	7	1	0
590	0	48.80952381	13.0952381	10	3.088235294	0.103843947	1	4	0	2	3	7	2	0
591	0	42.85714286	42.85714286	2	5.571428571	0.19047619	1	0	1	2	0	0	0	0
592	0	12.5	75	3	7	0.458333333	1	2	0	2	0	0	1	0
593	0	23.38709677	10.08064516	20	3.5	9.31 -02	1	4	0	2	6	17	0	0
594	0	23.38709677	10.08064516	20	3.5	9.31 -02	1	4	0	2	6	17	0	0
595	55.55555556	16.81034483	37.5	16	5.197309417	0.207045828	1	1	0	6	5	13	0	0
596	87.5	14.11290323	14.51612903	12	4.274193548	0.20726133	1	2	0	2	4	8	0	0
597	51.42857143	10.60606061	24.62121212	16	4.823754789	0.204516649	1	1	0	4	5	12	0	0
598	7.142857143	47.12041885	11.51832461	19	3.29281768	0.136731882	1	2	0	5	7	16	0	0
599	50	17.6	41.6	8	5.711864407	0.126580645	1	3	2	2	4	8	0	0
600	77.77777778	8.333333333	24.58333333	12	5.121212121	8.96 -02	1	3	2	3	7	12	1	0
601	0	55.55555556	11.11111111	5	3.111111111	0.138888889	1	0	0	2	2	2	0	0
602	85.13513514	10.20408163	2.857142857	14	4.616666667	0.267045835	1	3	0	3	6	14	0	0
603	0	0	53.06122449	4	6.471502591	0.186237572	1	3	1	1	1	4	0	0
604	0	2	6	11	4.212851406	0.381975904	1	1	0	4	4	9	0	0
605	85	6.22406639	7.883817427	9	4.495412844	0.215006916	1	3	0	6	3	7	0	0
606	7.692307692	0	20	4	5.083333333	0.116666667	1	1	1	2	1	5	0	0
607	0	41.35338346	14.28571429	19	3.56	9.52 -02	1	3	0	2	6	13	0	0
608	0	14.88549618	53.81679389	8	6.089147287	0.28887719	1	2	1	4	3	4	2	0
609	92.59259259	22.14765101	17.44966443	13	4.693661972	0.119246153	1	5	0	3	5	11	1	0
610	0	21.00840336	10.08403361	16	4.096069869	0.240009928	1	3	0	3	5	11	1	0
611	0	47.92626728	3.225806452	15	3.014634146	0.130098993	1	3	0	3	6	12	0	0
612	9.090909091	13.06306306	4.954954955	12	3.816091954	0.171089642	1	3	0	2	4	7	1	0
613	57.14285714	5.063291139	10.12658228	11	4.487562189	0.234856612	1	3	0	4	4	9	1	0
614	0	15.6779661	19.06779661	16	4.692682927	0.105914172	1	4	0	8	3	10	1	0
615	57.5	13.82488479	20.73732719	18	4.661111111	0.134835296	1	2	0	6	6	13	0	0
616	33.82352941	19.50617284	7.654320988	18	3.627240143	0.198203154	1	2	0	7	5	15	0	0
617	68.08510638	13.15789474	25.65789474	8	5.673913043	0.180258815	1	2	0	2	3	10	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
618	70.68965517	0.534759358	52.67379679	7	6.595744681	0.298949119	1	2	0	3	3	8	0	0
619	0	9.708737864	27.18446602	23	5.045454545	0.110774331	1	4	1	4	4	13	1	0
620	31.51260504	38.87640449	16.62921348	14	3.673031026	0.198866282	1	2	2	4	4	8	1	0
621	55.55555556	10.16260163	21.13821138	15	4.713615023	0.146374647	1	5	1	4	4	9	1	0
622	20	7.352941176	24.26470588	6	6.105263158	0.352178649	1	3	2	2	1	4	1	0
623	0	18.36734694	27.04081633	7	4.968253968	0.194191523	1	3	3	2	3	5	0	0
624	33.33333333	3.587443946	20.62780269	12	4.941747573	0.313739749	1	3	0	6	4	9	0	0
625	60	2.051282051	17.43589744	8	5.029411765	0.150885541	1	3	0	3	4	8	0	0
626	3.968253968	8.518518519	18.88888889	7	4.851711027	0.236128322	1	4	2	5	3	6	0	0
627	0	17.25888325	38.5786802	10	5.567567568	0.111312545	1	2	3	2	4	8	0	0
628	37.5	29.93197279	21.76870748	10	4.748201439	0.157767216	0	2	1	1	5	8	0	0
629	0	16.66666667	0	5	3.6	0	0	1	0	1	3	3	0	0
630	100	30	10	6	4.289473684	9.94 -02	1	2	0	2	3	5	1	0
631	33.33333333	34.7826087	4.347826087	10	4	0.102766798	1	1	1	2	4	7	0	0
632	69.23076923	23.15789474	5.614035088	15	3.932806324	8.91 -02	0	4	0	1	7	13	0	0
633	77.5	19.90740741	3.240740741	17	3.942105263	9.66 -02	1	3	0	3	7	13	1	0
634	11.11111111	9.677419355	35.48387097	4	6.125	0.101075269	1	1	1	3	2	6	0	0
635	36.36363636	10.22727273	7.954545455	9	4.691176471	8.75 -02	1	3	0	3	4	9	0	0
636	60.86956522	10.82802548	4.458598726	12	4.310344828	0.105830475	1	2	0	3	6	9	0	0
637	78.84615385	41.9047619	9.047619048	17	2.592356688	0.138209159	1	3	0	3	5	15	1	0
638	38.29787234	5.587510271	2.465078061	13	4.071907958	0.312760833	1	5	0	3	5	11	1	0
639	63.04347826	5.230769231	8.307692308	10	4.525252525	0.149933523	1	2	0	2	5	8	1	0
640	34.61538462	42.01680672	1.260504202	24	2.330708661	0.178420735	1	1	1	8	4	15	0	0
641	38.46153846	2.830188679	24.52830189	13	5.006309148	0.459575819	1	1	3	8	2	7	2	0
642	70.99236641	20.23346304	8.949416342	20	4.295	0.158894698	1	2	1	7	6	13	0	0
643	83.8150289	22.67080745	5.590062112	20	3.996323529	0.223737931	1	2	2	5	4	17	1	0
644	79.67479675	40.81196581	7.051282051	23	2.947204969	0.113096872	1	4	0	6	7	16	0	0
645	59.70149254	57.69230769	3.021978022	23	1.982269504	8.54 -02	1	3	0	6	8	18	1	0
646	33.33333333	55.51020408	6.530612245	18	2.316037736	9.99 -02	1	3	0	1	7	17	1	0
647	0	7.692307692	34.38914027	8	5.51627907	0.132496915	1	4	2	5	2	4	0	0
648	21.21212121	8.403361345	6.722689076	17	4.485714286	0.100592136	1	3	2	6	4	11	0	0
649	56.66666667	6.779661017	8.813559322	11	4.390070922	0.210146431	1	3	1	3	3	8	0	0
650	85.47008547	17.66784452	19.43462898	22	4.776785714	0.174473097	1	1	1	4	7	17	2	0
651	52.94117647	4.195804196	52.44755245	13	6.350746269	0.238252975	1	1	1	6	5	12	3	0
652	94.44444444	19.23076923	23.98190045	15	4.938574939	0.267173536	1	1	2	4	5	15	3	0
653	26.08695652	42.53393665	0.452488688	22	1	0.130440148	1	2	0	4	7	18	0	0
654	0	3.019067797	0.794491525	10	4.317647059	0.545231984	1	2	2	2	1	6	2	0
655	92.72727273	11.9047619	5.782312925	15	3.953703704	0.285574981	1	2	1	5	5	13	2	0
656	49.60474308	8.767772512	12.32227488	17	4.876777251	0.150388198	1	2	3	5	3	13	3	0
657	72.2826087	7.357859532	21.73913043	15	4.965517241	0.252573061	1	1	1	6	5	13	1	0
658	0	5.657492355	18.19571865	5	5.983899821	0.238059111	1	1	2	3	1	4	2	0
659	21.60493827	58.14814815	7.777777778	16	2.055	0.229574556	1	2	0	3	6	12	0	0
660	85.59322034	17.94019934	6.312292359	17	3.527950311	0.17986711	1	3	0	4	5	13	0	0
661	64	30.1242236	0.621118012	15	1.451612903	0.108647278	1	2	0	4	5	14	0	0
662	98.93048128	0.655737705	8.196721311	9	5.391534392	0.212726488	1	1	2	2	6	10	1	0

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BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
663	41.02564103	9.848484848	16.28787879	16	4.885869565	0.125964973	1	2	2	4	4	12	1	0
664	4.651162791	40.07936508	5.555555556	26	2.105633803	0.105166635	1	2	0	6	6	18	1	0
665	87.27272727	3.787878788	28.78787879	14	5.644859813	0.12371817	1	2	1	5	4	13	2	0
666	37.5	52.43243243	6.486486486	24	2.653333333	0.147179788	1	2	0	10	2	11	1	0
667	73.80952381	41.04477612	7.835820896	21	2.658823529	0.110011739	1	2	0	5	5	14	0	0
668	26.47058824	32.20338983	38.13559322	10	4.737373737	0.177024482	1	1	0	5	0	7	1	0
669	30	29.8245614	7.01754386	9	3.075	0.145363409	1	3	0	3	0	7	0	0
670	16.94915254	23.52941176	43.1372549	19	5.238636364	0.176073132	1	5	0	6	5	14	1	0
671	21.05263158	13	41	19	5.588235294	0.19160804	1	5	0	5	1	11	1	0
672	17.64705882	4.901960784	18.62745098	14	4.829545455	0.169287517	1	3	0	6	4	11	0	0
673	9.302325581	5.063291139	24.05063291	16	5	0.231946956	1	2	0	6	5	13	1	0
674	14.28571429	5.586592179	19.55307263	18	4.820512821	0.13746783	1	2	0	6	7	15	0	0
675	61.11111111	18.18181818	8.556149733	14	4.576086957	0.153470186	1	2	0	5	4	9	1	0
676	8	64.11149826	0.348432056	22	1.74015748	0.117955216	1	2	0	4	5	16	0	0
677	4.6875	14.71861472	2.164502165	20	3.362204724	0.205797101	1	3	0	6	5	16	0	0
678	95.71428571	2.004454343	4.231625835	9	4.954954955	0.561316815	1	1	0	2	4	11	2	0
679	100	42.73858921	2.904564315	16	2.692307692	0.172268326	1	2	0	6	4	14	0	0
680	97.77777778	2.464788732	4.929577465	9	4.509025271	0.359801921	1	1	0	4	1	7	1	0
681	53.62318841	14.53900709	4.609929078	20	4.259689922	0.149769062	1	1	0	3	5	15	2	0
682	59.21052632	30.54393305	3.765690377	22	3.4	0.102352238	1	2	0	4	6	18	0	0
683	86.48648649	5.860805861	5.128205128	8	4.648648649	0.28021978	1	2	0	5	2	6	2	0
684	59.23566879	7.118644068	5.762711864	9	4.556521739	0.160590338	1	1	0	4	1	7	0	0
685	59.84251969	7.509881423	11.85770751	10	4.871559633	0.135955832	1	1	1	3	2	8	1	0
686	41.86046512	13.5021097	6.751054852	16	3.87431694	0.226024458	1	2	0	4	4	12	1	0
687	27.10280374	25.0965251	0.386100386	19	3.226851852	0.156595133	0	2	0	5	6	16	0	0
688	62.31884058	9	10.66666667	16	4.694214876	0.156075808	1	1	1	7	4	13	0	0
689	63.07692308	33.03964758	5.726872247	24	3.074074074	9.01 -02	1	1	0	2	7	20	0	0
690	86.48648649	26.61290323	7.661290323	11	3.87804878	0.191393496	1	1	0	5	4	9	1	0
691	93.22033898	17.57188498	13.41853035	14	4.266881029	0.177582535	1	1	0	5	4	9	1	0
692	50	50	16.66666667	3	4.166666667	6.67 -02	0	0	1	0	0	3	0	0
693	0	20.63492063	66.66666667	6	5.841269841	0.2421915	0	1	1	3	0	2	1	0
694	0	45.45454545	36.36363636	8	4.1	5.45 -02	1	1	0	3	0	2	0	0
695	0	24.60567823	28.81177708	29	4.495575221	0.194439095	1	2	0	7	6	20	0	0
696	5.607476636	28.87029289	10.041841	23	3.557077626	0.148236701	1	1	0	4	6	16	0	0
697	30	11.11111111	13.8047138	15	4.606617647	0.122076622	1	3	2	6	5	10	0	0
698	14.28571429	14.28571429	9.407665505	16	4.289285714	0.16941595	1	3	2	6	4	11	1	0
699	57.1969697	27.68	8.48	26	3.983471074	0.124025641	1	3	2	6	5	18	1	0
700	15	7.913669065	5.035971223	14	4.256704981	0.176479755	1	2	2	6	3	9	1	0
701	86.56716418	37.5	27.5862069	14	4.287037037	0.180959845	1	1	0	5	5	12	1	0
702	88.67924528	32.12121212	26.66666667	20	4.450980392	0.164892831	1	1	1	4	6	15	1	0
703	64.28571429	40.13605442	25.85034014	14	4.059701493	0.116578138	1	1	0	3	6	13	3	0
704	0	6.280193237	5.314009662	11	4.514851485	0.369870081	1	3	0	5	4	7	1	0
705	50	1.090909091	7.636363636	7	4.637362637	0.499694758	1	1	0	3	2	6	1	0
706	32.25806452	9.230769231	5.641025641	12	4.006410256	0.354269099	1	2	0	1	2	10	1	0
707	0	27.02702703	44.01544402	21	5.048582996	0.225883691	1	1	0	4	5	12	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
708	7.142857143	27.61904762	33.33333333	24	4.649659864	0.1155596	1	1	1	3	6	16	1	0
709	62.5	34.1563786	16.87242798	15	3.7	0.178621229	1	2	2	4	5	11	1	0
710	37.6	20.58823529	28.32817337	25	4.640939597	0.102983176	1	2	2	5	6	19	1	0
713	25.35211268	81.72043011	1.792114695	24	2.348623853	0.35290181	1	3	1	5	7	16	1	0
716	40.81632653	43.18181818	17.61363636	18	3.969879518	0.105649351	1	0	0	5	8	16	0	0
717	0	4.112554113	69.6969697	17	6.912844037	0.503591853	1	4	0	5	4	12	0	0
718	8.695652174	18.13471503	48.96373057	17	5.78470255	0.277787497	1	1	0	4	6	11	0	0
719	52.43902439	30.99415205	2.53411306	23	3.769230769	8.67 -02	1	3	1	1	10	19	1	0
720	50.53763441	41.44486692	1.901140684	15	3.492125984	0.119757351	0	4	0	1	8	14	1	0
723	31.25	31.84931507	25	15	4.440433213	0.131690439	1	2	0	3	7	14	1	0
724	17.39130435	9.961685824	26.05363985	17	5.133858268	0.142263484	1	5	2	2	3	13	1	0
725	68.19923372	17.53312946	10.29561672	25	4.53724605	9.96 -02	1	4	0	4	11	21	1	0
728	60.29411765	24.12587413	10.83916084	20	4.325301205	0.072211999	1	4	0	3	8	15	1	0
729	1.020408163	27.75510204	17.95918367	17	4.237704918	0.118467715	1	3	1	4	4	10	1	0
730	36.92307692	25.58139535	13.95348837	18	4.405940594	6.95 -02	1	3	0	4	4	14	1	0
731	79.06976744	36.18090452	21.6080402	13	4.622302158	0.111491462	1	1	0	4	6	13	1	0
732	47.05882353	23.80952381	23.80952381	11	4.780269058	0.15053642	1	0	0	4	5	11	1	0
733	36.73469388	29.03225806	5.069124424	15	3.714285714	0.150921659	0	1	0	3	4	11	1	0
734	57.14285714	34.68468468	18.91891892	12	4.322429907	0.153479271	1	1	0	3	6	11	1	0
735	15.2173913	0.128205128	31.53846154	6	5.845170455	0.217510944	1	3	0	6	2	8	0	0
736	81.65137615	51.20405577	9.188846641	20	2.982701264	0.206880755	1	2	1	6	5	17	1	0
737	100	4.528301887	53.20754717	6	6.275471698	0.207632933	1	2	3	3	3	4	0	0
738	0	2.436647173	51.85185185	5	6.398635478	0.274665526	1	0	2	6	1	3	2	0
739	79.28994083	0.718390805	27.72988506	6	6.110091743	0.196460762	1	4	1	4	3	9	0	0
740	8.108108108	21.77419355	0.806451613	17	3.275510204	0.140965119	1	2	0	5	3	11	0	0
741	98.41628959	1.214128035	40.28697572	4	6.120133482	0.322849512	1	1	2	3	2	4	2	0
742	34.14634146	16.51376147	20.18348624	5	4.660377358	0.125891947	1	2	1	2	2	6	1	0
743	41.17647059	35.85722012	10.43807463	11	3.658944659	0.155372976	1	4	0	4	5	9	1	0
744	98.96907216	0	30.7486631	4	6.021680217	0.128112859	1	3	2	3	2	5	2	0
745	0	0.555555556	60	3	6.994444444	0.271942893	1	3	4	1	0	1	1	0
746	100	66.66666667	12.5	2	3.5	0.445652174	0	0	1	0	2	3	1	0
747	83.33333333	46.875	18.75	5	3.9	0.219758065	1	1	1	1	3	5	0	0
748	0	0	0	0	0	0	0	0	0	0	0	0	0	0
749	100	0	10.52631579	2	5.118421053	0.205123736	1	0	0	2	2	3	0	0
750	99.17355372	0	26.31578947	1	5.784688995	0.377944424	1	2	0	3	0	2	1	0
751	44.81132075	11.16751269	7.106598985	6	4.437106918	0.121284923	1	3	2	2	4	9	0	0
752	0	0.076045627	13.84030418	1	6.274144487	0.757118161	1	1	0	3	0	1	1	0
753	15.38461538	18.8976378	0	10	2.922077922	0.211348581	0	1	0	1	2	9	0	0
754	0	2.312138728	6.069364162	5	4.456521739	0.359319762	0	2	0	4	4	7	1	0
755	95	4.972375691	16.02209945	8	4.574585635	0.271639042	1	0	0	1	2	6	1	0
756	14.2384106	18.24274013	45.64408042	21	5.827689243	0.239520925	1	2	2	5	4	16	0	0
757	69.76744186	2.568218299	22.7929374	9	6.338235294	0.126465139	1	1	1	4	3	12	1	0
758	61.02941176	1.826484018	12.21461187	12	5.804223744	0.405793558	1	1	0	5	3	12	1	0
759	0	0	65	1	7.155172414	0.272316384	1	1	1	4	1	1	0	0
760	92.90780142	0	2.488832163	5	4.496463023	0.244934436	1	3	1	3	3	7	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
761	64.1350211	0.066889632	4.816053512	8	4.326671261	0.545662695	1	2	1	3	3	8	1	0
762	96.42857143	6.887052342	23.14049587	5	5.246458924	0.183309742	1	1	3	3	3	5	1	0
763	99.04153355	3.287461774	1.834862385	12	4.299479167	0.337155378	1	2	2	4	4	11	1	0
764	99.14570479	0.427631579	25.85526316	7	5.768015795	0.531751269	1	2	2	4	3	8	0	0
765	32.62411348	11.49635036	9.489051095	12	4.645238095	8.52 -02	1	4	1	3	3	14	2	0
766	7.142857143	8.8091354	19.24959217	15	4.784232365	0.110295968	1	3	1	7	6	10	2	0
767	0	0.278422274	3.294663573	5	6.881355932	0.862625623	1	1	3	1	1	3	1	0
768	56.14035088	15	22.24137931	14	4.945386064	8.83 -02	1	2	2	6	4	14	0	0
769	32.29166667	20.28639618	28.40095465	20	4.807843137	0.135227415	1	2	0	6	5	15	1	0
770	45	27.47252747	17.03296703	23	3.92920354	0.111590067	1	1	1	4	4	15	1	0
771	2.836879433	69.33744222	0.154083205	18	0.99255121	0.215207632	1	2	0	5	5	12	0	0
772	92.85714286	6.896551724	6.896551724	5	4.872093023	0.376904571	1	1	0	4	3	5	1	0
773	97.75280899	0.469070654	61.33098798	6	6.805286344	0.424495014	1	2	1	4	3	6	0	0
774	0	0	0	0	0	0	0	0	0	0	0	0	0	0
775	0	1.428571429	41.42857143	6	5.871428571	0.254244306	1	0	0	3	3	4	0	0
776	2.564102564	33.7962963	3.935185185	27	2.919093851	0.113474263	1	3	0	8	6	19	0	0
777	100	0	19.73684211	2	5.513157895	0.232280702	1	2	0	2	1	2	0	0
778	36.71641791	36.87635575	6.073752711	11	3.973626374	0.197547864	1	4	0	2	1	9	0	0
779	0	2.325581395	10.46511628	5	4.744186047	0.222708618	1	3	1	2	2	3	0	0
780	15.2173913	14.453125	11.5234375	11	4.2	0.33067056	1	3	0	4	2	8	3	0
781	22.22222222	15.65995526	23.04250559	15	4.78030303	0.124988714	1	3	0	4	2	10	1	0
782	100	3.921568627	11.76470588	6	4.444444444	0.180392157	1	1	0	1	4	6	2	0
783	0	0	56.20567376	1	7.112754159	0.283687943	1	2	0	2	0	0	0	0
784	0	0.290697674	63.08139535	2	7.133136095	0.436487219	1	1	0	2	1	2	0	0
785	96.45390071	1.875	0.9375	5	4.5125	0.418142633	1	1	0	2	1	3	1	0
786	0	0	95.43147208	0	7.695431472	0.440536621	1	0	0	2	0	0	2	0
787	0	40	0	2	3.333333333	0.2	0	1	0	0	0	1	0	0
788	84.44444444	2.396313364	35.76036866	11	6.819376026	0.23248933	1	2	1	4	2	8	1	0
789	0	0	97.64323446	1	7.913449817	0.805070316	1	1	0	6	1	1	2	0
790	5.555555556	6.36550308	15.8110883	6	5.730452675	0.283367556	1	2	2	6	1	5	2	0
791	90.69767442	19.19561243	28.33638026	14	5.205504587	0.145642901	1	1	1	10	2	6	0	0
792	20.1754386	4.964539007	16.31205674	10	4.833333333	0.112970394	1	4	4	2	4	10	1	0
793	66.66666667	4.854368932	18.44660194	12	4.872928177	0.210182335	1	2	1	4	3	12	1	0
794	73.30316742	9.395973154	7.861936721	18	4.831447964	0.151918558	1	4	3	4	5	13	1	0
795	26.31578947	0	20.68965517	2	5.290909091	0.1784634	1	0	0	3	1	3	0	0
796	0	4.081632653	34.69387755	6	6.289855072	9.49 -02	1	3	3	3	3	4	1	0
797	0	24.48979592	38.7755102	2	4.916666667	0.131802721	1	1	1	2	2	2	0	0
798	13.33333333	1.935483871	12.25806452	6	5.392523364	0.156514453	1	2	1	2	1	7	0	0
799	100	0	4.912280702	3	5.707317073	0.332320237	1	2	0	3	3	4	1	0
800	0	0	81.69934641	0	8	0.699989285	0	0	1	0	0	0	0	0
801	54.45544554	0	2.631578947	4	5.412587413	0.184071289	1	4	1	2	1	6	1	0
802	100	0	8.870967742	0	6.176470588	0.735378967	1	2	0	2	1	2	1	0
807	0	11.9047619	18.4981685	15	5.299771167	0.156581645	1	2	1	6	6	9	1	0
812	0	39.81693364	10.75514874	13	3.473684211	0.177261562	1	2	1	5	1	6	1	0
813	0	5.333333333	23.66666667	6	6.208053691	0.475830546	1	2	0	5	2	3	0	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	Hyd TriPct	IntolPct	TolerPct	BeckBI	HBI	D	ChiroTax	ColeoTax	Cr olTax	DipTax	EphemTax	EPTTax	ligoTax	rthoTax
814	0	0.862068966	51.72413793	4	6.559471366	0.273249739	1	2	1	4	1	2	0	0
815	0	14.0625	28.64583333	13	5.433043478	0.170211353	1	2	1	10	1	5	0	0
816	0	0	0	0	0	0	0	0	0	0	0	0	0	0
817	0	40.45454545	41.81818182	7	5.163636364	0.26430054	1	3	0	5	2	4	0	0
818	100	0	8.870967742	0	6.176470588	0.735378967	1	2	0	2	1	2	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
23	1	0	0	7	2	0.520833333	0	98.95833333	0.520833333	0	1	0	5	1
24	7	0	0	22	4	5.925925926	0	64.65608466	13.33333333	1.058201058	2	0	10	4
25	6	0	0	20	5	6.589147287	0	90.11627907	1.937984496	1.162790698	2	0	9	6
26	2	0	0	13	4	5.066079295	0	83.92070485	7.04845815	2.422907489	1	0	8	2
27	9	1	0	32	7	3.512396694	0.20661157	39.25619835	7.128099174	33.67768595	3	1	18	5
28	8	0	0	32	8	10.25896414	0	72.21115538	4.880478088	11.25498008	3	0	18	6
29	2	0	0	14	2	10.69958848	0.411522634	78.18930041	1.646090535	9.053497942	3	1	6	3
30	3	0	0	23	8	4.419191919	1.136363636	80.17676768	0.378787879	13.88888889	4	3	12	2
31	3	0	0	19	5	41.83673469	0.170068027	53.91156463	2.721088435	1.360544218	3	1	9	4
32	4	0	0	23	4	17.64705882	1.680672269	76.47058824	1.680672269	2.521008403	4	1	12	3
33	4	0	0	26	6	14.38450899	0	74.55048409	2.489626556	5.532503458	2	0	14	5
34	4	0	0	25	4	14.06779661	0	70.6779661	0.847457627	13.72881356	4	0	15	1
35	5	0	0	21	5	11.96911197	2.123552124	77.7992278	0.965250965	5.791505792	2	1	11	3
36	3	0	0	21	5	16.5374677	0.904392765	74.93540052	0.775193798	6.84754522	6	1	12	1
37	4	0	0	26	9	7.383966245	2.320675105	75.73839662	2.109704641	10.33755274	4	2	14	2
38	2	0	0	20	4	2.173913043	1.505016722	81.77257525	2.675585284	11.20401338	5	1	10	2
39	6	0	0	29	6	2.371541502	0	89.06455863	4.479578393	1.581027668	4	0	18	2
40	1	0	0	18	6	20.90909091	1.818181818	69.09090909	2.727272727	2.727272727	1	2	10	2
41	1	0	0	22	5	14.65517241	27.5862069	46.55172414	5.172413793	3.017241379	2	3	11	3
42	2	0	0	16	4	25.05966587	49.1646778	14.31980907	6.682577566	3.102625298	2	1	9	1
43	1	0	0	22	6	27.38095238	44.84126984	21.62698413	2.777777778	2.182539683	2	1	13	2
44	0	0	0	14	2	79.94858612	1.542416452	14.91002571	0.257069409	3.341902314	2	1	9	1
45	0	0	0	13	4	24.19354839	7.52688172	55.37634409	0	12.3655914	3	1	7	0
46	4	0	0	19	6	21.16327961	0.770847933	55.2908199	0.770847933	22.00420463	3	1	13	1
47	1	0	0	26	10	41.48606811	2.167182663	40.55727554	0.619195046	6.191950464	4	3	14	1
48	1	0	0	27	11	34.49367089	2.848101266	49.6835443	0.316455696	4.113924051	4	3	15	1
49	3	0	0	17	4	15.30054645	0	66.66666667	9.289617486	4.918032787	3	0	9	3
50	0	0	0	6	1	39.47368421	0	18.42105263	0	42.10526316	3	0	2	0
51	0	0	0	8	2	14.28571429	3.571428571	41.07142857	0	41.07142857	2	1	4	0
52	2	0	0	12	3	8.771929825	0	42.10526316	0	49.12280702	3	0	7	0
53	1	0	0	2	0	33.33333333	0	66.66666667	0	0	1	0	1	0
54	1	0	0	21	3	6.034482759	2.586206897	43.96551724	12.93103448	31.03448276	2	2	10	2
55	3	0	0	25	5	11.9760479	0.598802395	51.79640719	1.796407186	20.05988024	5	1	14	2
56	2	0	0	24	8	21.88552189	1.01010101	50.16835017	5.723905724	20.2020202	4	1	13	4
57	4	0	0	21	4	10.97046414	0.843881857	56.11814346	4.219409283	13.08016878	2	1	14	2
58	1	0	0	9	1	0	2.43902439	26.01626016	3.25203252	68.29268293	0	1	4	2
59	2	0	0	12	1	1.910828025	1.910828025	46.49681529	5.732484076	41.40127389	2	1	2	3
60	2	0	0	14	2	5.314009662	0.483091787	5.797101449	41.54589372	22.70531401	1	1	2	5
61	2	0	0	17	2	6.818181818	0	9.659090909	56.25	22.72727273	4	0	4	4
62	1	0	0	11	1	22.44897959	1.020408163	0	14.79591837	30.10204082	2	1	0	3
63	1	0	0	7	2	0.392156863	0	25.09803922	4.509803922	70	1	0	3	2
64	1	0	0	8	2	3.278688525	1.639344262	24.59016393	45.90163934	24.59016393	1	1	3	2
65	1	0	0	18	3	10	4	38	12	33.33333333	2	1	8	2
66	0	0	0	18	4	34.01759531	0.879765396	48.68035191	6.744868035	9.677419355	1	2	11	2
67	2	0	0	20	4	10.10928962	0.546448087	52.73224044	15.30054645	21.31147541	2	1	13	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
68	2	0	0	16	4	3.781512605	0.840336134	61.34453782	9.243697479	24.78991597	1	1	10	2
69	1	0	0	22	6	20.84690554	0.651465798	47.88273616	7.166123779	22.80130293	2	1	13	4
70	1	0	0	25	3	5.263157895	3.684210526	52.10526316	13.15789474	25.26315789	3	3	12	3
71	1	0	0	16	3	10.60606061	5.303030303	47.72727273	9.090909091	18.18181818	3	1	6	2
72	0	0	0	17	4	1.492537313	2.23880597	81.34328358	1.492537313	13.43283582	1	1	12	1
73	0	0	0	24	7	0.448430493	1.569506726	79.59641256	1.569506726	16.59192825	1	2	14	3
74	2	0	0	22	7	36.05150215	24.78540773	30.36480687	6.115879828	1.60944206	3	2	12	2
75	0	0	0	19	3	7.142857143	1.785714286	67.85714286	13.39285714	8.928571429	1	1	11	2
76	0	0	0	19	4	5.459770115	1.149425287	77.29885057	0.574712644	14.94252874	1	1	12	1
77	3	0	0	27	8	20.52313883	1.006036217	51.30784708	23.138833	3.621730382	2	2	16	4
78	2	0	0	17	5	20.06688963	10.03344482	54.51505017	6.35451505	1.337792642	1	3	7	2
79	7	0	0	27	7	4.87804878	0	48.17073171	17.07317073	28.04878049	4	0	17	4
80	7	0	0	29	9	11.78571429	1.071428571	64.28571429	0.714285714	21.78571429	3	1	20	2
81	3	0	0	22	5	14.20765027	9.289617486	53.55191257	2.18579235	20.76502732	5	1	12	3
82	2	0	0	23	7	25.75757576	20.64393939	39.58333333	2.083333333	10.41666667	2	2	13	3
83	2	0	0	18	3	20.71428571	0	40	5	31.42857143	4	0	9	2
84	2	0	0	20	5	26.67814114	3.786574871	27.88296041	0.344234079	19.96557659	3	1	12	1
85	7	0	0	27	6	15.96467391	11.61684783	23.91304348	16.50815217	10.9375	3	1	15	3
86	0	0	0	27	11	26.43020595	0	50.68649886	6.750572082	5.148741419	4	0	16	4
87	5	0	0	30	7	10.9916368	0.597371565	48.6260454	17.08482676	6.810035842	4	1	14	6
88	5	0	0	27	7	5.838041431	3.578154426	53.8606403	17.89077213	12.61770245	2	1	14	6
89	5	0	0	28	7	34.1503268	0	48.03921569	11.76470588	5.065359477	3	0	16	5
90	5	0	0	28	8	12.21864952	0.857449089	71.91854234	10.28938907	3.965702036	4	1	14	6
91	5	0	0	28	8	8.93970894	0	60.29106029	23.90852391	6.860706861	4	0	15	8
92	3	0	0	26	8	11.12299465	0.213903743	64.38502674	14.11764706	5.77540107	3	1	12	5
93	5	0	0	26	5	42.69480519	0	49.67532468	4.383116883	2.435064935	3	0	12	6
94	5	0	0	28	6	18.29347123	0.387847447	35.48804137	41.11182935	0.969618617	4	1	11	7
95	4	0	0	23	6	14.71861472	7.792207792	58.87445887	10.38961039	6.060606061	3	2	10	5
96	3	0	0	21	5	27.05882353	5.588235294	48.52941176	10.88235294	5.294117647	2	1	8	7
97	4	1	0	18	4	23.99193548	0	62.09677419	2.217741935	10.88709677	1	0	10	4
98	3	0	0	17	2	6.056338028	0	68.02816901	2.394366197	21.12676056	4	0	9	2
99	5	1	0	25	7	6.177156177	0.233100233	70.3962704	14.91841492	1.282051282	2	1	15	4
100	4	0	0	19	2	61.27098321	0	28.17745803	3.956834532	6.474820144	2	0	9	5
101	1	0	0	17	5	10.62801932	3.8647343	76.32850242	6.763285024	1.93236715	3	3	7	2
102	1	0	0	17	2	2.079722704	8.67 -02	94.5407279	1.733102253	1.213171577	3	1	9	2
103	0	0	0	15	4	5.471956224	0.683994528	93.43365253	0.273597811	0	2	2	9	1
104	0	0	0	15	5	26.60944206	2.789699571	69.95708155	0.429184549	0	2	1	10	1
105	1	0	0	15	2	10.55276382	1.507537688	61.30653266	7.537688442	19.09547739	3	2	6	3
106	6	0	0	29	5	38.02816901	1.006036217	30.78470825	4.225352113	5.030181087	4	1	13	6
107	7	0	0	35	8	22.31012658	2.848101266	40.66455696	6.170886076	4.113924051	5	1	16	9
108	9	0	0	34	7	17.76798825	0	39.94126285	14.68428781	9.691629956	4	0	17	10
109	6	0	0	29	6	37.6580173	0.931470393	38.1237525	7.850964737	10.04657352	4	1	11	6
110	7	0	0	26	4	31.90184049	0.920245399	39.26380368	4.601226994	0.613496933	4	1	9	8
111	5	0	0	28	4	28.93518519	0.462962963	28.7037037	5.555555556	4.976851852	3	1	12	5
112	2	0	0	18	2	67.59776536	5.586592179	2.793296089	9.497206704	1.675977654	5	2	3	3

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
113	9	0	0	33	5	23.22097378	9.36 -02	55.61797753	3.838951311	6.741573034	3	1	18	5
114	5	0	0	24	5	58.54519774	0	28.81355932	1.200564972	10.66384181	2	0	12	5
115	1	0	0	32	10	33.1738437	0	34.92822967	16.10845295	8.452950558	6	0	15	6
116	6	0	0	29	6	28.03030303	7.58 -02	37.87878788	0.984848485	1.590909091	3	1	17	2
117	5	0	0	32	7	13.69047619	0.198412698	58.13492063	12.8968254	3.76984127	4	1	17	5
118	1	0	0	9	0	33.33333333	0	50	14.28571429	0	3	0	4	1
119	2	0	0	14	4	1.559020045	1.113585746	94.43207127	0.222717149	2.672605791	4	1	7	1
120	1	0	0	10	2	17.1875	25	25	31.25	0	2	2	3	2
121	1	0	0	10	4	11.40350877	0	73.68421053	0	14.9122807	1	0	8	0
122	3	0	0	15	4	2.928870293	1.673640167	82.84518828	0	11.71548117	2	1	9	0
123	4	0	0	28	5	9.488224638	0	76.24547101	3.872282609	10.00905797	2	0	19	3
124	1	0	0	18	4	1.843317972	0	82.48847926	0.460829493	13.82488479	3	0	12	1
125	3	0	0	17	3	5.555555556	0	69.84126984	2.380952381	16.66666667	2	0	11	2
126	1	0	0	22	8	20.35175879	0	27.63819095	27.38693467	20.60301508	4	0	13	2
127	2	0	0	18	4	13.91752577	0.515463918	75.77319588	1.030927835	7.731958763	2	1	11	2
128	2	0	0	19	3	18.75	0	54.54545455	2.840909091	1.704545455	4	0	11	2
129	1	0	0	19	4	4.462474645	0.60851927	74.44219067	1.21703854	16.22718053	3	1	11	2
130	1	0	0	20	4	7.885304659	0	69.89247312	1.433691756	20.78853047	3	0	11	4
131	2	0	0	11	2	9.543568465	3.319502075	4.564315353	45.02074689	37.55186722	2	1	3	4
132	8	0	0	27	5	23.67346939	0.204081633	50	10.40816327	14.28571429	4	1	15	4
133	7	0	0	27	4	18.28978622	0	46.31828979	6.888361045	23.27790974	4	0	16	3
134	6	0	0	21	2	24.08026756	0	29.09698997	12.7090301	25.75250836	2	0	12	4
135	5	0	0	25	4	9.756097561	0.304878049	47.25609756	7.317073171	21.95121951	3	1	13	4
136	6	0	0	20	3	14.70588235	0	55.88235294	17.32026144	11.76470588	2	0	9	5
137	8	0	0	31	7	26.19760479	0	46.10778443	2.994011976	19.31137725	3	0	19	4
138	2	0	0	22	5	11.61616162	0	38.88888889	1.01010101	47.22222222	2	0	14	2
139	4	0	0	27	4	8.659217877	0	58.10055866	8.100558659	19.55307263	3	0	17	3
140	4	0	0	29	5	9.45083014	0	65.77266922	4.086845466	9.961685824	2	0	18	4
141	0	0	0	18	6	2.339181287	0	64.9122807	19.88304094	11.69590643	2	0	10	1
142	0	0	0	11	1	0	7.692307692	38.46153846	21.79487179	24.35897436	0	1	7	1
143	1	0	0	13	2	1.52284264	0	90.52453469	4.737732657	3.045685279	1	0	7	2
144	0	0	0	5	0	37.2246696	0	41.18942731	0	21.58590308	1	0	3	0
145	1	0	0	9	1	7.792207792	0	74.02597403	0.432900433	17.74891775	2	0	5	1
146	1	0	0	10	2	7.125307125	0	38.57493857	53.56265356	0.737100737	2	0	5	2
147	1	0	0	12	2	20	0	22.59259259	37.77777778	19.62962963	1	0	7	3
148	1	0	0	8	1	10.52631579	0	52.63157895	31.57894737	5.263157895	1	0	5	1
149	0	0	0	13	3	12.77705346	1.173402868	80.70404172	3.129074316	2.086049544	2	1	7	1
150	4	0	0	19	6	4.504504505	0	55.85585586	0.45045045	37.38738739	3	0	13	1
151	5	0	0	23	5	10.48513302	0	42.87949922	1.877934272	41.15805947	3	0	14	2
152	5	0	0	27	6	14.00293255	0.659824047	52.71260997	7.404692082	12.75659824	2	1	15	4
153	4	0	0	18	3	24.58893871	0	30.41853513	36.77130045	8.146487294	2	0	11	1
154	5	0	0	28	8	29.19293821	0	30.13871375	0.315258512	4.224464061	3	0	15	3
155	4	0	0	26	8	15.73964497	0	43.07692308	14.79289941	15.50295858	4	0	14	3
156	4	0	0	33	9	14.30990686	0	43.09906859	11.6850127	17.52751905	5	0	17	4
157	3	0	0	27	6	13.29987453	0	47.30238394	12.92346299	11.04140527	5	0	12	3

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
158	1	0	0	5	0	0	0	66.66666667	0	33.33333333	0	0	4	0
159	2	0	0	15	5	1.777777778	0	88.88888889	0.888888889	2.222222222	2	0	8	2
160	5	0	0	24	5	4.516129032	0	69.67741935	3.225806452	17.41935484	6	0	11	2
161	3	0	0	15	3	2.272727273	0	84.65909091	2.272727273	6.25	2	0	7	2
162	2	1	0	11	2	0	0	87.40740741	2.962962963	5.925925926	0	0	6	1
163	4	0	0	28	7	10.47475509	0	57.49811605	9.419743783	10.77618689	3	0	15	4
164	4	0	0	29	7	11.51465126	0.660338423	66.85926537	3.714403632	11.2257532	4	1	14	3
165	2	0	0	20	4	25.12953368	0	15.28497409	3.10880829	5.440414508	5	0	8	3
166	7	0	0	30	3	9.962406015	0	57.70676692	7.142857143	11.09022556	4	0	16	3
167	2	0	0	24	8	27.39726027	0.228310502	33.78995434	7.305936073	12.55707763	6	1	10	3
168	7	0	0	30	5	14.88933602	0	42.25352113	2.816901408	3.822937626	5	0	19	3
169	6	0	0	27	6	8.091286307	0	45.02074689	25.93360996	15.56016598	2	0	15	4
170	6	0	0	31	6	24.24892704	0	34.65665236	7.296137339	5.686695279	3	0	18	5
171	7	0	0	33	9	72.21458047	0.687757909	14.85557084	7.565337001	3.576341128	4	2	16	5
172	7	0	0	22	5	5.759162304	0	83.2460733	6.806282723	3.141361257	2	0	12	5
173	7	0	0	22	3	2.074688797	0	76.34854772	8.713692946	6.22406639	5	0	12	3
174	1	0	0	7	1	13.01369863	0	83.56164384	0	2.054794521	1	0	3	0
175	0	0	0	8	2	36.03603604	0.900900901	27.92792793	3.603603604	29.72972973	1	1	3	1
176	1	0	0	8	1	2.279202279	0	40.17094017	0	57.54985755	1	0	5	0
177	2	0	0	14	3	9.900990099	0	82.67326733	0.495049505	6.683168317	4	0	6	1
178	2	0	0	19	3	10.09852217	0.246305419	53.20197044	2.709359606	28.07881773	3	1	9	2
179	5	0	0	25	3	5.769230769	0	69.23076923	4.230769231	7.307692308	3	0	15	3
180	2	0	0	23	3	11.40529532	0	28.51323829	2.036659878	51.12016293	5	0	9	4
183	8	0	0	31	6	13.39092873	0	52.69978402	6.695464363	5.831533477	4	0	20	3
184	5	0	0	26	7	7.926829268	6.707317073	60.36585366	11.2804878	3.658536585	2	1	15	4
185	2	0	0	18	5	89.44723618	0	8.291457286	2.261306533	0	5	0	9	4
186	4	0	0	23	7	44.4606414	0	31.19533528	0.583090379	7.288629738	2	0	16	2
187	4	0	0	24	7	4.761904762	0	61.25541126	0.432900433	3.246753247	3	0	17	2
188	1	0	0	14	4	0.680272109	1.360544218	60.20408163	0.680272109	22.10884354	1	2	8	1
189	1	0	0	18	7	3.260869565	1.086956522	48.91304348	2.173913043	43.47826087	3	1	10	2
190	2	0	0	18	4	1	0	69.5	5.5	23.5	1	0	11	3
191	6	0	0	22	4	12.73712737	0	58.80758808	1.89701897	23.03523035	2	0	14	3
192	6	0	0	17	4	8.148148148	1.481481481	61.85185185	11.2962963	13.14814815	1	1	8	4
193	4	0	0	22	6	14.47028424	0	59.43152455	1.033591731	22.73901809	1	0	16	3
194	3	0	0	21	6	19.85111663	0.744416873	37.46898263	2.481389578	33.99503722	1	1	13	2
195	4	0	0	32	6	10.14873141	21.87226597	29.57130359	4.374453193	30.62117235	5	1	14	7
196	5	0	0	29	7	4.64625132	4.64625132	61.77402323	3.590285111	22.7032735	4	1	17	4
197	6	0	0	26	5	6.028368794	0	68.43971631	4.609929078	20.56737589	3	0	16	4
198	3	0	0	15	1	16	0	24.66666667	4.666666667	53.33333333	4	0	4	3
199	7	0	0	22	6	42.52491694	0.830564784	32.89036545	1.993355482	17.60797342	1	2	12	5
200	5	0	0	27	3	21.50259067	0	48.1865285	8.678756477	19.68911917	3	0	13	5
201	6	0	0	24	3	2.197802198	0	78.46153846	0.21978022	9.89010989	4	0	14	1
202	2	0	0	16	3	7.766990291	0.970873786	72.33009709	5.825242718	10.19417476	3	1	5	2
203	2	0	0	17	3	6.25	2.462121212	83.52272727	4.734848485	1.136363636	1	1	10	1
204	2	0	0	20	5	11.35135135	0	77.02702703	0.27027027	8.648648649	2	0	12	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
205	2	0	0	14	4	3.562340967	0	80.15267176	10.43256997	3.816793893	1	0	7	3
206	2	0	0	22	4	8.819714656	0	46.30350195	1.426718547	40.07782101	3	0	10	3
207	1	0	0	21	5	10.54313099	0	44.5686901	7.348242812	30.51118211	2	0	12	3
208	1	0	0	8	0	94.47236181	0	2.261306533	0.502512563	2.261306533	2	0	2	1
209	6	0	0	31	7	25.1497006	0.133067199	43.51297405	0.665335995	2.46174318	3	2	17	3
210	1	0	0	17	4	5.056179775	0	75.84269663	1.966292135	9.831460674	2	0	8	2
211	2	0	0	19	6	15.19337017	0	62.98342541	1.104972376	14.91712707	3	0	8	2
212	0	0	0	13	2	14.41441441	0	43.24324324	7.207207207	34.23423423	3	0	3	3
213	0	0	0	14	4	26.34730539	2.994011976	65.26946108	0	1.19760479	2	1	7	0
214	3	0	0	23	6	6.451612903	1.075268817	49.24731183	3.440860215	23.65591398	3	1	14	2
215	2	0	0	15	3	15.43624161	0	75	0	4.026845638	2	0	8	0
216	0	0	0	15	6	24.7826087	1.739130435	63.04347826	1.304347826	2.608695652	2	1	7	2
217	1	0	0	19	7	4.063860668	0.725689405	54.86211901	1.015965167	33.67198839	3	1	8	3
218	0	0	0	16	3	4.946236559	0.430107527	51.61290323	1.505376344	33.33333333	3	1	6	1
219	6	0	0	32	8	22.42798354	0.617283951	53.49794239	4.320987654	3.909465021	3	2	15	6
220	3	0	0	28	4	16.01731602	9.956709957	30.73593074	5.194805195	4.761904762	5	2	11	3
221	6	0	0	27	4	18.80597015	0.149253731	36.86567164	20.89552239	4.626865672	3	1	15	3
222	1	0	0	31	10	8.345642541	1.477104874	71.41802068	3.618906942	3.914327917	6	3	13	3
223	6	0	0	31	11	14.48763251	1.413427562	56.6548881	1.884570082	0.11778563	4	2	19	3
224	7	0	0	26	7	4.229607251	0	64.65256798	24.7734139	4.229607251	4	0	14	5
225	6	0	0	22	3	6.711409396	0	61.74496644	26.84563758	4.697986577	5	0	10	5
226	6	0	0	25	5	21.34228188	16.51006711	40	13.15436242	2.684563758	3	1	10	6
227	5	0	0	29	9	11.40350877	0	47.22222222	14.9122807	3.070175439	2	0	17	3
228	4	0	0	22	4	7.048008172	0	56.58835546	2.757916241	21.04187947	3	0	10	4
229	3	0	0	26	6	28.18035427	2.093397746	18.03542673	20.61191626	24.15458937	3	2	11	4
230	6	0	0	19	3	12.67361111	3.298611111	60.06944444	13.88888889	6.25	3	1	8	3
231	6	0	0	25	7	5.974025974	0	76.36363636	7.792207792	9.61038961	3	0	16	3
232	6	0	0	35	10	6.06741573	0	73.93258427	5.842696629	7.865168539	5	0	19	6
233	8	0	0	35	9	4.227405248	0	69.82507289	10.05830904	3.935860058	2	0	18	6
234	0	0	0	11	3	4.424778761	2.654867257	76.99115044	2.654867257	9.734513274	2	2	4	1
235	1	0	0	7	1	12.5	0	25	4.166666667	58.33333333	1	0	3	1
236	5	0	0	21	5	9.462365591	0	61.72043011	11.61290323	13.76344086	3	0	12	2
237	8	0	0	31	6	3.790849673	0.130718954	78.43137255	7.581699346	3.921568627	3	1	17	3
238	9	0	0	35	8	15.1734104	0.144508671	57.22543353	16.90751445	6.791907514	5	1	18	5
239	3	0	0	14	0	16.54501217	0	57.66423358	2.919708029	20.92457421	3	0	5	2
240	4	0	0	24	4	24.51456311	6.553398058	44.90291262	2.427184466	10.67961165	4	1	13	2
241	1	0	0	24	6	11.23853211	8.486238532	23.62385321	12.1559633	37.3853211	5	1	10	3
242	6	0	0	29	4	12.82527881	15.79925651	33.08550186	0.557620818	5.204460967	5	1	15	2
243	4	0	0	25	5	24.62686567	4.850746269	45.52238806	5.597014925	7.462686567	3	1	14	4
244	5	0	0	25	7	8.138238573	0	61.09253066	5.797101449	18.39464883	3	0	16	3
245	6	0	0	26	7	8.147321429	0	61.04910714	5.803571429	18.41517857	3	0	17	3
246	3	0	0	22	4	20	0	43.83561644	11.50684932	4.657534247	5	0	10	5
247	4	0	0	13	2	78.55153203	0	15.73816156	1.810584958	3.899721448	1	0	9	2
248	4	0	0	25	8	46.38868206	0	38.79374535	0.297840655	1.414743112	3	0	17	1
249	9	0	0	37	9	31.88405797	0.362318841	41.12318841	10.86956522	13.58695652	4	2	18	7

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
250	4	0	0	21	6	24.71910112	0.561797753	56.17977528	0.561797753	15.73033708	3	1	14	1
252	1	0	0	18	4	33.44947735	4.181184669	33.44947735	2.43902439	25.78397213	5	1	7	2
253	1	0	0	22	6	10.23622047	1.837270341	58.53018373	1.049868766	26.77165354	3	2	10	3
254	3	0	0	31	8	31.77441541	0.137551582	48.96836314	2.200825309	8.94085282	4	1	14	5
255	0	0	0	18	4	33.60215054	4.301075269	47.84946237	4.569892473	1.344086022	4	2	6	1
256	0	0	0	14	3	66.28498728	0.254452926	31.17048346	0.318066158	0	4	2	4	1
257	0	0	0	17	3	22.59259259	8.148148148	60.37037037	5.555555556	0.740740741	4	2	6	1
258	0	0	0	20	5	19.21824104	7.491856678	30.94462541	4.560260586	29.31596091	4	2	8	1
259	7	0	0	19	3	13.95348837	1.162790698	58.37209302	11.86046512	9.302325581	2	1	10	3
260	3	0	0	24	5	18.24104235	0	41.69381107	3.908794788	28.66449511	3	0	15	3
261	4	0	0	27	5	25.40192926	0	38.585209	2.250803859	16.39871383	3	0	14	3
262	5	0	0	31	5	8.11965812	0.213675214	71.15384615	2.136752137	17.30769231	5	1	15	5
263	6	0	0	24	6	5.376344086	0	61.29032258	12.90322581	15.59139785	2	0	14	6
264	3	0	0	18	6	8.982035928	1.19760479	46.10778443	4.790419162	36.52694611	2	2	8	3
265	3	0	0	19	3	27.21893491	1.775147929	39.34911243	5.917159763	13.60946746	2	2	7	3
266	0	0	0	12	3	50	0.862068966	12.06896552	4.310344828	20.68965517	1	1	3	2
267	0	0	0	16	2	17.39130435	7.826086957	23.47826087	1.739130435	43.47826087	2	3	5	1
268	0	0	0	19	4	6.991525424	2.330508475	72.66949153	2.542372881	9.957627119	3	1	10	1
269	0	0	0	15	4	10.52631579	3.157894737	65.26315789	5.263157895	7.368421053	1	1	8	1
270	0	0	0	24	5	12.17391304	6.086956522	29.13043478	20.43478261	12.60869565	3	1	10	1
271	0	0	0	22	3	15.64885496	4.580152672	11.06870229	18.70229008	41.98473282	2	2	7	2
272	0	0	0	6	0	56.97674419	0	20.93023256	0	20.93023256	2	0	2	0
273	0	0	0	10	2	6.153846154	18.46153846	38.46153846	26.15384615	10.76923077	2	1	3	3
274	5	0	0	25	6	5.040322581	4.233870968	29.43548387	10.88709677	3.024193548	1	2	12	3
275	5	0	0	28	5	8.955223881	0	30.2238806	33.76865672	21.82835821	2	0	15	6
276	4	0	0	39	8	15.11991658	0.104275287	38.99895725	24.50469239	8.342022941	6	1	18	6
277	4	0	0	33	9	15.00586166	2.696365768	44.54865182	6.33059789	7.033997655	6	2	13	6
278	4	0	0	16	2	1.694915254	33.89830508	41.24293785	0	11.29943503	1	2	8	0
279	0	0	0	23	9	9.440559441	17.83216783	64.33566434	2.447552448	2.097902098	1	3	16	1
280	0	0	0	25	7	3.240740741	6.481481481	78.24074074	3.240740741	6.018518519	3	4	12	3
281	0	0	0	19	5	1.951219512	0.975609756	61.46341463	3.414634146	32.19512195	2	2	12	1
282	0	0	0	12	1	5.797101449	1.811594203	61.23188406	21.73913043	7.246376812	3	1	4	1
283	0	0	0	7	1	75.16778523	0	20.13422819	0.67114094	3.355704698	1	0	3	1
284	2	0	0	15	4	0.617283951	4.320987654	61.72839506	3.703703704	26.54320988	1	1	6	2
285	4	0	0	28	8	11.07594937	1.424050633	48.73417722	2.215189873	2.689873418	4	1	14	3
286	2	0	0	12	1	5.405405405	0	74.32432432	1.351351351	17.56756757	3	0	6	1
287	1	0	0	11	2	24.24242424	1.515151515	65.15151515	0.757575758	3.787878788	3	1	3	1
288	5	0	0	19	5	2.051282051	0	92.30769231	3.076923077	0.512820513	1	0	11	4
289	6	0	0	19	4	14.04958678	4.958677686	48.76033058	27.27272727	0	4	1	9	3
290	7	0	0	28	5	25.0343879	5.22696011	47.86795048	12.1045392	2.751031637	4	2	11	5
291	7	0	0	36	10	19.59459459	0	55.91216216	8.952702703	8.783783784	4	0	21	6
292	7	0	0	36	10	23.16176471	0.367647059	49.26470588	8.088235294	9.375	3	1	19	6
293	5	0	0	19	4	33.2594235	23.28159645	33.70288248	3.10421286	1.77383592	3	1	9	3
294	4	0	0	32	7	25.3611557	0	50.96308186	11.95826645	7.46388443	4	0	18	4
295	3	0	0	25	6	15.45574637	0.528401585	67.63540291	2.113606341	5.812417437	3	2	10	4

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
296	6	0	0	33	7	9.051254089	0.145401672	78.37150127	3.198836787	4.61650309	4	1	15	6
297	4	0	0	24	5	2.010050251	41.37353434	44.72361809	1.172529313	4.020100503	2	1	13	4
298	8	0	0	24	6	14.66165414	0	66.16541353	16.16541353	3.007518797	3	0	14	5
299	7	0	0	28	6	10.26392962	0.293255132	49.26686217	33.13782991	4.692082111	4	1	14	5
300	7	0	0	26	6	11.33144476	0	66.28895184	5.099150142	16.14730878	4	0	14	5
301	6	0	0	23	5	4.081632653	0	61.73469388	22.44897959	5.612244898	4	0	11	6
302	1	0	0	13	3	1.98019802	0.99009901	41.58415842	0.99009901	51.48514851	2	1	7	1
303	1	0	0	13	4	3.448275862	0	50	0	32.75862069	2	0	9	0
304	3	0	0	24	6	8.171206226	0	54.86381323	1.945525292	3.112840467	5	0	14	3
305	8	0	0	24	6	2.777777778	0	88.33333333	4.444444444	2.222222222	2	0	14	6
306	2	0	0	16	5	3.921568627	0	68.62745098	1.960784314	21.56862745	2	0	11	1
307	6	0	0	29	6	38.12154696	0	48.61878453	6.077348066	6.813996317	5	0	16	4
308	0	0	0	18	2	0	0.204918033	83.40163934	6.762295082	2.663934426	0	1	11	2
309	4	0	0	20	6	10.2739726	0	61.64383562	2.054794521	19.8630137	3	0	13	2
310	3	0	0	21	5	13.60946746	0	78.50098619	1.380670611	5.522682446	4	0	11	3
311	3	0	0	17	3	15.94202899	10.14492754	43.47826087	0	27.53623188	3	1	9	0
312	2	0	0	19	6	5.220667384	0	51.66846071	41.38858988	0.430570506	4	0	9	2
313	2	0	0	15	5	3.67965368	0	54.11255411	39.82683983	0.865800866	3	0	7	2
314	0	0	0	20	4	46.12403101	0	24.26356589	0.930232558	28.21705426	5	0	10	1
315	2	0	0	18	4	24.02684564	0	38.65771812	0.536912752	36.77852349	4	0	12	1
316	0	0	0	25	5	3.616484441	0	76.87132044	18.16652649	0.588730025	4	0	13	4
317	3	0	0	21	2	15.4589372	0	51.20772947	5.314009662	26.57004831	4	0	11	3
318	3	0	0	15	2	27.52293578	0	54.12844037	5.504587156	10.09174312	4	0	8	1
319	0	0	0	16	4	53.40550293	1.533603969	26.92828146	0	17.72665765	5	1	7	0
320	0	0	0	15	3	67.19319563	1.458080194	17.98298906	0.607533414	12.7582017	5	1	5	3
321	0	0	0	3	0	4.761904762	38.0952381	0	0	57.14285714	1	1	0	0
322	0	0	0	3	0	21.21212121	27.27272727	0	0	51.51515152	1	1	0	0
323	0	0	0	10	1	11.11111111	2.222222222	68.88888889	2.222222222	11.11111111	2	1	4	1
324	0	0	0	14	1	32.23140496	3.305785124	45.45454545	4.132231405	8.26446281	2	1	6	2
325	0	0	0	10	1	3.225806452	8.064516129	62.90322581	9.677419355	1.612903226	1	1	3	2
326	0	0	0	11	1	5.363984674	1.149425287	77.39463602	4.214559387	0.766283525	1	1	4	2
327	0	0	0	22	4	11.53846154	0.295857988	67.4556213	1.183431953	19.52662722	5	1	13	1
328	0	0	0	7	1	22.93577982	0	75.2293578	0.917431193	0	2	0	3	1
329	1	0	0	14	2	1.937984496	0	83.04263566	0	12.8875969	3	0	7	0
330	2	0	0	20	6	1.206776514	2.32 -02	23.81062892	61.54560223	13.36737062	3	1	11	3
331	3	0	0	26	6	15.42372881	0.169491525	58.47457627	0.508474576	20.6779661	4	1	15	2
332	5	0	0	31	5	18.0764774	0	65.58516802	4.866743917	5.098493627	5	0	19	2
333	2	0	0	16	2	2.723735409	0	70.81712062	22.95719844	3.112840467	2	0	9	3
334	3	0	0	27	9	4.444444444	0.130718954	86.2745098	5.359477124	3.594771242	3	2	15	2
335	4	0	0	15	3	6.091370558	0	78.42639594	0.507614213	9.898477157	2	0	9	2
336	1	0	0	10	2	45.71428571	0	43.57142857	0.714285714	8.571428571	2	0	4	1
337	2	0	0	11	3	34.09090909	0	21.59090909	0.568181818	40.34090909	2	0	6	1
338	0	0	0	16	5	30.52930057	0	19.37618147	9.45 -02	49.24385633	3	0	9	1
339	1	0	0	17	4	19.96996997	0	37.23723724	0.600600601	41.44144144	4	0	9	2
340	2	0	0	17	2	54.06824147	0	42.38845144	0	1.837270341	5	0	7	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
341	1	0	0	12	2	71.7877095	0	27.09497207	0	0	5	0	6	0
342	1	0	0	13	2	62.14442013	0	33.91684902	0.218818381	3.282275711	4	0	6	1
343	3	0	0	15	3	37.3433584	0	55.88972431	0	5.764411028	3	0	9	0
344	0	0	0	18	3	20.34739454	0.372208437	22.08436725	6.079404467	50.49627792	4	1	6	3
345	10	0	0	30	6	14.01869159	0.31152648	58.87850467	22.11838006	3.738317757	3	1	18	6
346	4	0	0	28	7	21.52932442	2.152932442	57.6095026	0.593912398	17.14922049	5	2	16	2
347	5	0	0	30	6	6.748466258	0	76.48261759	1.840490798	14.11042945	5	0	17	2
348	8	0	0	33	9	22.43211334	0	57.73317591	5.548996458	13.81345927	3	0	19	7
349	10	0	0	33	7	7.494145199	0	56.20608899	14.75409836	21.31147541	4	0	18	8
350	10	0	0	28	5	33.28290469	0	43.57034796	18.00302572	4.992435703	1	0	18	6
351	5	0	0	16	2	67.12598425	0	24.40944882	5.905511811	2.559055118	1	0	9	5
352	7	0	0	22	4	6.666666667	0	71.73333333	14.4	6.666666667	1	0	13	4
353	3	0	0	17	5	13.94422311	0	44.62151394	19.52191235	18.7250996	1	0	11	2
354	3	0	0	12	3	4.255319149	0	58.5106383	6.382978723	30.85106383	1	0	7	3
355	0	0	0	10	2	1.162790698	0	91.86046512	2.325581395	3.488372093	1	0	5	2
356	2	0	0	11	3	5.693950178	0	80.78291815	2.491103203	11.03202847	1	0	6	3
357	5	0	0	25	7	2.083333333	0	71.45833333	4.791666667	15.41666667	2	0	15	4
358	3	0	0	16	4	4.435483871	0	62.5	0.403225806	31.4516129	1	0	11	1
359	4	0	0	22	5	2.056074766	0	81.86915888	3.364485981	8.224299065	2	0	14	4
360	4	0	0	18	3	1.851851852	0	74.69135802	3.395061728	16.66666667	1	0	10	4
361	5	0	0	21	5	5.333333333	0	78.88888889	3.111111111	11.33333333	2	0	13	4
362	7	0	0	26	4	28.62694301	0	50.51813472	12.95336788	5.18134715	4	0	13	6
363	6	0	0	27	8	15.66523605	0.214592275	71.03004292	10.72961373	0.429184549	4	1	14	6
364	6	0	0	21	2	23.14049587	0	40.77134986	7.988980716	27.54820937	2	0	11	5
365	6	0	0	23	5	50.1369863	0	36.07305936	6.575342466	3.470319635	3	0	10	5
366	0	0	0	23	9	3.03030303	6.493506494	61.47186147	4.761904762	23.37662338	2	4	12	3
367	1	0	0	19	5	25.58139535	2.790697674	27.44186047	9.302325581	31.1627907	1	2	10	3
368	0	0	0	15	4	10.37735849	50.94339623	16.03773585	5.660377358	16.98113208	4	2	6	2
369	1	0	0	18	4	1.949541284	0.172018349	53.55504587	2.694954128	41.57110092	2	1	11	2
370	0	0	0	15	2	11.33004926	3.448275862	32.01970443	35.4679803	16.25615764	3	1	6	2
371	0	0	0	15	1	5.818181818	0	56.54545455	8.727272727	28.90909091	3	0	6	2
372	0	0	0	22	4	47.89644013	0.72815534	5.258899676	8.818770227	34.46601942	3	3	9	2
373	1	0	0	20	3	10.12269939	0	57.36196319	10.42944785	17.17791411	2	0	9	3
374	0	0	0	23	5	22.54854369	7.28 -02	61.72330097	0.266990291	1.04368932	1	1	9	2
375	2	0	0	22	7	2.127659574	6.788247214	70.61803445	3.343465046	16.00810537	3	1	11	2
376	1	0	0	13	3	44.81132075	0	25.47169811	24.05660377	3.301886792	1	0	6	4
377	0	0	0	17	3	27.57009346	0.46728972	51.86915888	10.28037383	8.411214953	2	1	7	3
378	2	0	0	17	2	35.24904215	0	27.5862069	20.30651341	5.747126437	1	0	7	5
380	0	0	0	13	2	19.63190184	0	12.88343558	17.17791411	49.69325153	2	0	6	1
381	0	0	0	23	3	4.95049505	0.330033003	71.78217822	0.495049505	13.03630363	2	1	7	2
383	0	0	0	19	4	28.04878049	6.097560976	35.36585366	1.829268293	26.82926829	2	1	12	1
384	0	0	0	19	6	27.47747748	5.18018018	47.97297297	2.252252252	9.90990991	2	4	7	1
385	0	0	0	15	5	16.4874552	1.075268817	54.48028674	18.27956989	5.734767025	2	3	4	1
386	2	0	0	10	2	58.73015873	0	28.57142857	1.587301587	6.349206349	1	0	5	1
387	1	0	0	10	1	18.07228916	0	66.26506024	3.614457831	4.819277108	1	0	5	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
388	0	0	0	4	1	12.03007519	0	6.766917293	0	81.20300752	1	0	2	0
389	0	0	0	6	0	42.72727273	0	52.72727273	0	4.545454545	3	0	2	0
390	0	0	0	19	3	20	0.625	24.0625	4.0625	33.75	2	1	7	2
391	1	0	0	13	2	37.39837398	0	30.89430894	6.097560976	25.6097561	2	0	7	3
392	0	0	0	11	0	5.208333333	0	8.333333333	0	85.41666667	3	0	4	0
393	2	0	0	13	0	5.930807249	0	60.62602965	9.884678748	23.3937397	3	0	3	3
394	3	0	0	21	3	1.375	0.375	28.5	58.875	10.875	2	2	9	3
396	0	0	0	9	1	6.417112299	0	0.534759358	1.604278075	91.44385027	3	0	2	2
397	2	0	0	16	3	49.53586498	0	43.29113924	0	7.172995781	3	0	12	0
398	2	0	0	22	5	8.786127168	0	75.37572254	2.89017341	12.83236994	3	0	14	2
399	1	0	0	10	2	4.555808656	0.341685649	34.0546697	0.341685649	56.2642369	1	1	5	1
400	1	0	0	16	5	21.90635452	7.692307692	40.46822742	0.668896321	22.40802676	1	1	11	1
401	1	0	0	16	3	7.612456747	0	39.10034602	0.346020761	8.650519031	2	0	9	1
402	2	0	0	21	3	24.74747475	0	56.9023569	1.178451178	7.912457912	3	0	11	4
403	1	0	0	17	1	21.35193133	0	44.20600858	0.214592275	17.38197425	4	0	8	2
404	2	0	0	15	3	11.69871795	0	65.22435897	0	21.79487179	3	0	9	0
405	2	0	0	17	2	11.61473088	0	86.96883853	0	0.283286119	2	0	11	0
406	4	0	0	21	5	2.93040293	0.366300366	61.9047619	19.78021978	15.01831502	3	1	12	3
407	0	0	0	23	9	1.496259352	1.496259352	71.57107232	0.498753117	5.486284289	1	2	14	2
408	0	0	0	30	11	3.013182674	4.143126177	79.47269303	0.564971751	8.286252354	3	4	14	3
409	0	0	0	26	10	1.156069364	1.445086705	74.85549133	0.578034682	9.248554913	3	2	13	2
410	6	0	0	27	6	5.208333333	0	63.02083333	2.604166667	22.91666667	2	0	18	4
411	5	0	0	22	7	10.95890411	2.054794521	64.7260274	1.712328767	15.4109589	3	1	14	2
412	0	0	0	12	0	72.14170692	0.161030596	2.576489533	23.0273752	0.966183575	4	1	2	2
413	3	0	0	20	4	49.04580153	0.763358779	28.81679389	13.74045802	2.671755725	4	1	8	4
414	3	0	0	25	6	7.788944724	1.005025126	38.69346734	1.256281407	8.291457286	5	2	11	2
415	2	0	0	17	3	15.1799687	0	56.02503912	2.816901408	17.68388106	4	0	7	2
416	3	0	0	21	4	31.36094675	0	47.53451677	8.284023669	4.142011834	5	0	11	1
417	0	0	0	17	3	14.06698565	0	25.55023923	4.019138756	2.200956938	3	0	4	4
418	1	0	0	18	5	44.71243043	0	17.99628942	20.03710575	4.452690167	6	0	9	1
419	3	0	0	25	5	32.52173913	0	7.47826087	10.7826087	0.347826087	5	0	10	4
420	2	0	0	14	4	2.008032129	0	36.34538153	11.24497992	19.47791165	2	0	8	2
421	0	0	0	16	6	18.08510638	0	53.77176015	0.386847195	26.88588008	2	0	10	1
422	2	0	0	13	1	15.95330739	0	50.19455253	0.778210117	22.17898833	3	0	6	1
423	0	0	0	18	4	5.799151344	1.131541726	64.78076379	2.404526167	19.51909477	2	2	6	3
424	5	0	0	23	2	1.237623762	0	96.12211221	1.320132013	1.237623762	2	0	11	5
425	4	0	0	19	5	10.38062284	0	70.24221453	1.557093426	17.8200692	3	0	12	2
426	4	0	0	27	6	14.02714932	0.226244344	59.72850679	5.656108597	16.74208145	4	1	12	3
427	2	0	0	19	5	22.89156627	0.963855422	59.75903614	6.024096386	9.879518072	4	1	10	2
428	4	1	0	25	2	5.86797066	0.733496333	62.59168704	4.400977995	14.66992665	4	1	14	3
429	4	1	0	25	7	9.124087591	0.729927007	74.27007299	1.824817518	13.68613139	2	1	17	2
431	0	0	0	14	1	19.11764706	0	33.82352941	13.23529412	33.82352941	4	0	7	2
433	0	0	0	24	5	34.95575221	1.327433628	35.39823009	10.61946903	15.48672566	6	1	9	5
434	1	1	0	26	5	33.5	3.0625	56.1875	1.75	3.8125	4	2	11	4
435	1	0	0	18	6	7.792207792	11.03896104	68.83116883	1.298701299	11.03896104	3	3	10	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
436	1	0	0	16	7	3	8	71	6	11.33333333	3	2	8	1
437	1	0	0	10	3	2.105263158	0	74.73684211	5.263157895	15.78947368	1	0	6	1
438	8	1	0	26	7	5.899705015	0.294985251	76.40117994	0.589970501	15.92920354	4	1	16	1
439	3	0	0	19	5	10.78431373	0	76.47058824	0	12.74509804	3	0	15	0
440	3	0	0	17	4	1.351351351	0.540540541	92.16216216	2.432432432	3.243243243	1	1	12	1
441	2	0	0	13	4	1.941747573	0	85.4368932	1.941747573	10.67961165	2	0	9	1
442	0	0	0	10	2	11.35770235	6.657963446	53.78590078	0	27.67624021	2	1	4	0
443	0	0	0	10	2	43.38709677	9.032258065	30.16129032	1.290322581	16.12903226	4	1	2	1
444	0	0	0	12	3	70.05742412	0.410172272	22.06726825	2.296964725	5.168170632	2	3	3	3
445	0	0	0	11	0	10.7678189	3.06 -02	89.14040991	3.06 -02	3.06 -02	4	1	4	1
446	0	0	0	15	4	19.52054795	6.849315068	10.95890411	2.397260274	57.19178082	2	2	7	1
447	0	0	0	14	2	16.95652174	0	27.82608696	7.391304348	41.30434783	3	0	6	2
448	0	0	0	21	6	5.483028721	2.349869452	53.78590078	32.63707572	5.744125326	4	2	10	2
450	0	0	0	29	4	5.676855895	5.676855895	45.41484716	20.52401747	21.39737991	5	3	12	3
451	0	0	0	27	5	4.715127701	3.339882122	73.28094303	6.483300589	11.5913556	4	3	13	2
452	0	0	0	29	8	2.450980392	3.18627451	63.48039216	14.46078431	15.19607843	4	2	12	2
453	0	0	0	20	4	11.53039832	3.5639413	43.39622642	3.144654088	38.36477987	4	1	10	2
454	0	0	0	20	3	12.64367816	0.574712644	32.47126437	6.609195402	46.83908046	4	2	7	3
455	0	0	0	17	4	5.759162304	0.261780105	52.87958115	1.047120419	40.05235602	4	1	7	3
456	0	0	0	11	3	1.587301587	0	57.14285714	2.116402116	39.15343915	2	0	6	2
457	2	0	0	15	5	13.79310345	2.298850575	43.67816092	1.149425287	39.08045977	4	2	7	1
458	0	0	0	20	4	6.64928292	1.825293351	34.81095176	14.9934811	13.95045632	4	2	7	2
459	0	0	0	3	0	0	0	0	0	15.92039801	0	0	0	0
460	0	0	0	9	1	21.14537445	0	57.26872247	6.167400881	11.89427313	3	0	2	1
461	0	0	0	9	1	26.24113475	0	41.84397163	11.34751773	19.14893617	2	0	3	1
462	0	0	0	13	2	24.17582418	2.197802198	28.57142857	6.593406593	38.46153846	2	2	6	1
463	0	0	0	11	3	13.7254902	0.980392157	61.76470588	9.803921569	11.76470588	1	1	5	1
464	1	0	0	23	5	14.47811448	0.336700337	55.89225589	10.43771044	18.18181818	3	1	13	2
465	0	0	0	14	4	17.6369863	0.51369863	70.20547945	0.51369863	11.13013699	1	1	8	2
466	6	1	0	38	8	6.500691563	0.20746888	65.97510373	11.13416321	2.904564315	6	2	19	4
467	5	0	0	24	9	64.59107807	0.371747212	22.86245353	2.323420074	9.758364312	3	2	11	4
468	4	0	0	19	4	4.501607717	22.82958199	18.32797428	17.04180064	35.04823151	3	2	9	2
469	2	0	0	11	2	3.50877193	0	52.63157895	0.877192982	42.98245614	3	0	6	1
470	2	0	0	10	2	3.333333333	0	21.11111111	2.222222222	73.33333333	1	0	6	1
471	3	0	0	16	5	13	0	43	1	43	3	0	11	1
472	0	0	0	25	5	27.27272727	0	18.76832845	35.04398827	14.07624633	6	0	8	4
473	0	0	0	21	4	21.24352332	0.103626943	54.92227979	5.284974093	15.95854922	3	1	8	4
474	0	0	0	22	5	32.30088496	0	36.83628319	12.16814159	17.47787611	4	0	8	5
475	2	0	0	19	2	39.95726496	0	41.98717949	0.747863248	15.5982906	4	0	9	2
476	0	0	0	23	4	48.99777283	0	26.72605791	12.02672606	8.908685969	3	0	13	2
477	0	0	0	19	4	47.35973597	0	36.96369637	0.660066007	7.425742574	2	0	9	3
478	0	0	0	9	2	0	0	69.44444444	2.777777778	16.66666667	0	0	3	1
479	0	0	0	14	5	1.746724891	0	44.10480349	6.550218341	47.59825328	1	0	9	1
480	0	0	0	11	1	9.541984733	1.908396947	32.82442748	7.251908397	31.29770992	2	1	4	1
481	2	0	0	15	4	1.604278075	1.604278075	48.6631016	0	47.05882353	2	1	9	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
482	0	0	0	16	4	5.263157895	0.526315789	45.78947368	0.526315789	47.36842105	1	1	9	1
483	0	0	0	15	4	7.96812749	0	41.43426295	8.764940239	41.43426295	1	0	9	1
484	0	0	0	14	2	7.52688172	0	50.89605735	3.94265233	37.27598566	2	0	6	2
485	0	0	0	15	4	4.975124378	0.497512438	67.66169154	4.975124378	21.89054726	1	1	8	2
486	2	0	0	25	5	3.412969283	2.218430034	88.39590444	1.023890785	4.607508532	3	2	13	3
487	2	0	0	23	6	6.491885144	1.622971286	87.01622971	0.624219725	2.621722846	2	1	11	3
488	0	0	0	18	5	9.454545455	0.363636364	81.45454545	0.727272727	8	2	1	11	2
489	4	0	0	24	8	4.153354633	2.875399361	56.23003195	21.72523962	14.69648562	3	2	12	3
490	0	0	0	6	1	18.75	0	25	0	50	1	0	3	0
491	1	0	0	12	2	7.407407407	0	59.25925926	7.407407407	11.11111111	1	0	6	2
492	1	0	0	11	2	13.95348837	0	37.20930233	6.976744186	34.88372093	2	0	5	2
493	4	0	0	18	3	13.82352941	0.294117647	38.52941176	4.705882353	34.11764706	3	1	8	4
494	0	0	0	19	5	4.297994269	0.573065903	80.80229226	0.573065903	13.75358166	2	2	12	1
495	1	0	0	21	5	7.042253521	0.352112676	87.32394366	0.704225352	3.873239437	4	1	12	1
496	3	0	0	19	3	8.544303797	0	75.63291139	4.113924051	9.17721519	5	0	10	1
497	5	0	0	29	7	7.065217391	0.543478261	87.22826087	1.358695652	2.717391304	4	1	16	4
498	5	0	0	22	4	5.414012739	0	63.37579618	18.15286624	12.7388535	3	0	14	3
499	4	0	0	23	6	10.30927835	0	80.41237113	5.498281787	3.780068729	4	0	14	3
500	0	0	0	17	7	7.142857143	1.127819549	71.42857143	14.66165414	5.639097744	3	2	8	2
501	0	0	0	21	9	29.43143813	1.003344482	51.17056856	1.003344482	14.71571906	4	1	11	2
502	2	0	0	22	5	4.433497537	0	87.68472906	0.492610837	5.418719212	4	0	13	1
503	1	0	0	17	5	4.838709677	0.403225806	83.87096774	6.451612903	3.225806452	3	1	8	1
504	2	0	0	24	8	12.45283019	1.132075472	76.60377358	3.773584906	0.377358491	3	1	14	3
505	2	0	0	20	8	2.649006623	0	90.06622517	5.298013245	0.331125828	3	0	14	1
506	0	0	0	19	6	3.83480826	0	59.58702065	34.21828909	2.064896755	4	0	10	3
507	0	0	0	18	7	0	0.740740741	81.11111111	14.44444444	1.111111111	0	1	11	3
508	6	0	0	28	7	2.702702703	0	80.06756757	0.337837838	15.54054054	3	0	20	1
509	7	0	0	30	9	1.013513514	3.378378378	89.86486486	2.027027027	0.337837838	2	1	21	4
510	6	0	0	21	5	2.583979328	0.258397933	80.62015504	8.527131783	5.167958656	4	1	10	2
511	1	0	0	22	6	8.405797101	5.217391304	75.07246377	1.449275362	4.347826087	4	2	10	2
512	5	0	0	20	4	4.929577465	0.704225352	90.84507042	1.056338028	0.352112676	4	1	11	2
513	5	0	0	18	3	5.494505495	0	90.10989011	2.93040293	1.465201465	2	0	12	2
514	6	0	0	24	5	2.555910543	0	70.60702875	20.44728435	5.750798722	3	0	11	5
515	3	0	0	14	3	19.41747573	0	44.66019417	29.12621359	0	4	0	6	3
516	5	0	0	24	4	34.53689168	4.003139717	37.20565149	11.4599686	4.552590267	4	1	9	5
517	5	0	0	28	5	11.46953405	6.451612903	60.21505376	9.318996416	10.75268817	5	1	13	5
518	4	0	0	31	8	23.68421053	0.263157895	51.05263158	12.89473684	3.421052632	4	1	16	4
519	2	0	0	21	6	18.14946619	0	57.65124555	19.57295374	3.914590747	4	0	12	2
520	2	0	0	16	3	1.013513514	10.13513514	61.48648649	5.067567568	20.27027027	2	1	9	2
521	1	0	0	25	7	13.39869281	0	65.68627451	18.62745098	1.633986928	4	0	15	3
522	4	0	0	25	4	18.29268293	1.829268293	62.5	1.829268293	14.93902439	4	1	13	4
523	0	0	0	11	2	78.23529412	1.764705882	1.764705882	11.17647059	4.117647059	3	1	1	2
524	1	0	0	18	4	1.632653061	0	55.51020408	34.89795918	7.755102041	3	0	9	3
525	5	1	0	31	7	10.16393443	0.327868852	70.81967213	10.81967213	4.262295082	5	1	17	3
526	1	0	0	24	5	15.03957784	0	56.46437995	8.443271768	18.99736148	6	0	12	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
527	6	1	0	25	6	9.933774834	5.629139073	71.52317881	3.973509934	8.609271523	3	1	16	2
528	6	1	0	25	6	8.201892744	6.624605678	71.92429022	4.100946372	8.517350158	3	1	15	3
529	0	0	0	12	2	6.748466258	1.533742331	87.42331288	0	3.680981595	2	1	6	0
530	0	0	0	4	0	2.222222222	0	4.444444444	2.222222222	91.11111111	1	0	1	1
531	5	0	0	20	3	1.78041543	0.59347181	63.79821958	12.16617211	20.47477745	3	1	7	2
532	3	0	0	21	4	3.971119134	0.36101083	55.23465704	20.2166065	17.32851986	2	1	11	2
533	6	0	0	22	3	24.74916388	0.334448161	15.71906355	1.337792642	54.18060201	2	1	10	3
534	3	0	0	13	2	51.47679325	0	36.28691983	0.843881857	7.594936709	1	0	7	1
535	5	0	0	21	4	23.4741784	5.164319249	35.21126761	3.286384977	23.94366197	1	1	10	4
536	1	0	0	18	3	26.47058824	0	35.29411765	10	21.76470588	3	0	7	4
537	0	0	0	18	4	16.26506024	0	20.78313253	4.819277108	57.8313253	3	0	9	4
538	0	0	0	13	2	50.40322581	0	5.64516129	3.225806452	32.25806452	1	0	2	2
539	1	0	0	15	1	72.06477733	0.809716599	15.38461538	1.619433198	5.668016194	1	1	4	2
540	2	0	0	14	3	8.139534884	0	70.93023256	1.162790698	18.60465116	2	0	9	1
541	4	0	0	21	3	24.67105263	0.657894737	61.51315789	1.973684211	10.52631579	3	1	11	4
542	6	0	0	26	2	21.53846154	0	20.38461538	33.46153846	22.69230769	7	0	7	6
543	6	0	0	27	2	14.16430595	0	14.16430595	41.64305949	24.92917847	5	0	9	5
544	0	0	0	11	1	18.84984026	0.638977636	22.04472843	43.13099042	8.626198083	3	1	2	1
545	1	0	0	19	5	9.465020576	0	41.97530864	26.74897119	13.58024691	3	0	9	3
546	3	0	0	23	3	8.169934641	51.96078431	26.47058824	0.326797386	13.07189542	4	2	11	1
547	5	0	0	27	6	12.66233766	8.441558442	70.77922078	1.298701299	5.519480519	2	1	17	2
548	3	0	0	12	1	13.47305389	0	19.46107784	0.299401198	65.86826347	3	0	5	1
549	3	0	0	20	5	19.51612903	0.322580645	58.5483871	1.612903226	19.67741935	1	1	11	5
550	3	0	0	21	4	23.55099046	0	40.42553191	2.201027146	30.74101247	1	0	10	7
551	3	0	0	20	4	7.264957265	0	48.43304843	0.925925926	41.66666667	2	0	11	4
552	4	0	0	23	6	6.799276673	0.180831826	50.48824593	6.473779385	35.66003617	2	1	14	3
553	4	0	0	26	8	13.88200297	9.92 -02	47.94248884	8.230044621	11.6013882	3	1	14	5
554	1	0	0	19	3	9.53978907	0	61.36145733	2.157238734	1.96548418	3	0	8	5
555	4	0	0	27	5	49.74289581	0.054127199	39.10690122	1.840324763	2.571041949	5	1	12	6
556	7	0	0	24	3	11.55279503	0	53.04347826	23.68530021	9.979296066	2	0	15	5
558	2	0	0	25	5	31.82481752	0.072992701	41.97080292	3.795620438	18.54014599	3	1	11	6
559	3	0	0	27	6	9.119496855	0.104821803	74.47589099	1.519916143	5.607966457	3	2	12	6
560	2	0	0	22	3	36.92307692	0	55.29411765	1.719457014	3.076923077	5	0	8	5
561	9	0	0	34	8	28.0790248	6.263135771	51.74443043	3.530895334	7.0197562	3	1	18	7
562	1	0	0	10	1	3.448275862	0.492610837	0.985221675	0.492610837	93.59605911	3	1	2	1
563	1	0	0	19	2	2.027027027	0.337837838	16.55405405	2.027027027	78.71621622	2	1	8	3
564	0	0	0	21	1	22.03389831	10.59322034	8.898305085	10.16949153	42.37288136	4	2	6	3
565	0	0	0	19	2	41.71779141	0	18.71165644	9.202453988	28.52760736	3	0	6	4
566	0	0	0	2	0	0	0	14.28571429	0	85.71428571	0	0	1	0
567	0	0	0	8	1	27.27272727	0	36.36363636	18.18181818	9.090909091	1	0	3	2
568	3	0	0	19	3	17.37089202	19.24882629	48.82629108	1.877934272	8.920187793	3	1	8	2
569	4	0	0	19	5	4.046242775	19.07514451	47.39884393	1.734104046	26.01156069	1	1	12	1
570	3	0	0	26	6	8.013937282	1.045296167	71.08013937	1.045296167	14.28571429	3	1	14	1
571	5	0	0	25	5	3.642384106	9.271523179	81.12582781	0.993377483	2.317880795	4	1	14	2
572	4	0	0	23	6	5.527638191	5.025125628	74.3718593	0.502512563	13.06532663	3	1	14	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
573	2	0	0	27	4	27.82608696	3.913043478	41.30434783	6.52173913	4.782608696	5	5	8	3
574	3	0	0	16	3	0.740740741	0	95.55555556	0	3.703703704	1	0	12	0
575	2	0	0	19	3	20.4	0	57.2	4.8	14.8	2	0	9	2
576	0	0	0	17	5	43.98496241	1.879699248	16.16541353	29.69924812	7.894736842	4	1	6	4
577	1	0	0	12	2	18.54304636	1.655629139	1.986754967	0	77.48344371	4	1	4	0
578	3	0	0	10	3	0	0	21.26436782	0.574712644	77.01149425	0	0	6	1
579	4	0	0	14	3	8.713692946	0	23.23651452	1.244813278	65.97510373	2	0	7	2
580	2	0	0	16	3	8.552631579	1.315789474	55.92105263	6.578947368	14.47368421	1	1	5	4
581	0	0	0	8	2	29.91452991	0	17.09401709	52.13675214	0.854700855	3	0	3	1
582	2	0	0	30	11	12.93375394	0.630914826	65.61514196	1.577287066	18.29652997	2	1	19	3
583	2	0	0	22	4	5.572755418	0	55.72755418	1.238390093	35.29411765	1	0	13	1
584	3	0	0	17	2	7.476635514	0	64.48598131	2.803738318	12.14953271	3	0	8	2
585	2	0	0	32	7	24.83870968	0	48.38709677	3.548387097	21.29032258	5	0	18	4
586	3	0	0	27	6	17.96875	0.390625	56.25	2.34375	21.09375	3	1	14	3
587	1	0	0	17	6	9.042553191	1.595744681	17.0212766	64.89361702	6.914893617	3	1	8	2
588	2	0	0	15	5	0	0	69.01408451	9.389671362	19.24882629	0	0	9	2
589	3	0	0	10	2	3.658536585	1.219512195	9.756097561	1.219512195	17.07317073	2	1	3	1
590	2	0	0	16	2	10.71428571	0	22.61904762	20.23809524	29.76190476	3	0	6	2
591	0	0	0	4	0	57.14285714	0	28.57142857	0	0	2	0	1	0
592	0	0	0	6	0	68.75	0	18.75	6.25	0	1	0	3	1
593	7	0	0	23	4	10.08064516	0	37.09677419	6.85483871	31.85483871	1	0	14	1
594	7	0	0	23	4	10.08064516	0	37.09677419	6.85483871	31.85483871	1	0	14	1
595	5	0	0	20	3	40.51724138	0	31.46551724	4.310344828	23.70689655	3	0	12	3
596	2	0	0	12	2	15.32258065	0	61.69354839	19.35483871	3.629032258	2	0	8	1
597	3	0	0	18	4	26.51515152	0	60.60606061	7.196969697	5.681818182	3	0	11	2
598	3	0	0	24	6	9.947643979	5.235602094	44.5026178	29.31937173	8.90052356	2	1	14	3
599	0	0	0	21	4	11.2	1.6	28.8	4	13.6	2	2	9	2
600	0	0	0	28	5	13.75	3.75	38.75	5.833333333	19.16666667	3	3	13	2
601	0	0	0	5	0	55.55555556	0	0	0	44.44444444	3	0	0	0
602	0	0	0	23	8	4.081632653	0.408163265	80.40816327	9.795918367	4.489795918	2	1	13	3
603	0	0	0	15	3	6.632653061	14.79591837	33.67346939	0	9.183673469	1	5	4	0
604	0	0	0	15	5	6.8	1.2	47.2	44	0.8	2	3	4	4
605	1	0	0	18	3	9.958506224	3.319502075	68.04979253	16.59751037	2.074688797	3	1	9	4
606	0	0	0	10	4	12	16	36	20	4	1	1	3	2
607	4	0	0	19	3	15.03759398	9.77443609	35.33834586	6.015037594	28.57142857	2	1	8	4
608	0	0	0	18	1	51.90839695	3.053435115	16.79389313	24.04580153	3.816793893	5	2	5	3
609	1	0	0	24	5	16.10738255	2.348993289	69.46308725	10.40268456	1.677852349	2	3	13	5
610	0	0	0	24	6	9.663865546	3.361344538	29.41176471	45.79831933	8.823529412	4	4	10	2
611	0	0	0	20	6	4.147465438	0	59.9078341	12.90322581	22.11981567	2	0	11	3
612	0	0	0	17	3	4.954954955	7.657657658	47.74774775	32.43243243	7.207207207	3	2	6	3
613	1	0	0	19	4	10.12658228	2.109704641	79.74683544	4.219409283	3.797468354	2	2	10	3
614	5	0	0	24	2	23.72881356	1.271186441	52.54237288	10.16949153	6.355932203	5	1	12	3
615	2	0	0	22	5	21.65898618	1.382488479	58.06451613	1.843317972	16.58986175	3	1	12	2
616	7	0	0	25	3	7.407407407	10.86419753	58.27160494	3.950617284	3.950617284	3	1	12	5
617	1	0	0	17	6	24.01315789	0	49.67105263	0.657894737	18.75	1	0	10	1

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
618	0	0	0	16	5	51.87165775	1.336898396	21.39037433	6.14973262	16.04278075	1	2	7	2
619	3	0	0	27	6	22.81553398	1.45631068	50.48543689	6.796116505	16.50485437	3	2	11	4
620	0	0	0	18	4	16.40449438	0	78.65168539	0.224719101	4.269662921	2	0	12	1
621	0	0	0	22	5	19.91869919	0.406504065	65.85365854	0.406504065	12.19512195	2	1	14	1
622	0	0	0	17	3	2.205882353	0	19.11764706	0.735294118	0.735294118	3	0	8	1
623	0	0	0	17	2	4.081632653	3.06122449	57.14285714	3.06122449	7.142857143	1	3	6	2
624	0	0	0	20	5	23.76681614	0.448430493	13.4529148	56.95067265	4.932735426	5	1	7	4
625	0	0	0	18	4	17.94871795	1.025641026	45.64102564	20.51282051	13.84615385	2	1	9	2
626	0	0	0	22	3	15.18518519	46.2962963	22.96296296	5.185185185	2.962962963	1	4	9	4
627	0	0	0	21	4	18.78172589	9.644670051	18.27411168	14.72081218	2.030456853	2	4	6	3
628	0	0	0	16	3	0.680272109	19.72789116	41.49659864	6.802721088	1.360544218	1	2	8	2
629	0	0	0	6	0	16.66666667	0	33.33333333	16.66666667	16.66666667	1	0	2	1
630	0	0	0	13	2	15	1.25	38.75	31.25	3.75	3	1	5	2
631	0	0	0	12	3	8.695652174	4.347826087	30.43478261	30.43478261	21.73913043	2	1	4	3
632	0	0	0	23	6	6.315789474	5.614035088	50.87719298	20.35087719	15.0877193	1	1	13	3
633	0	0	0	24	6	5.555555556	2.314814815	64.35185185	20.83333333	6.481481481	4	2	11	3
634	0	0	0	14	4	25.80645161	6.451612903	48.38709677	3.225806452	9.677419355	1	2	7	1
635	0	0	0	18	5	7.954545455	2.272727273	43.18181818	7.954545455	29.54545455	1	2	10	1
636	0	0	0	16	3	5.732484076	0.636942675	38.21656051	17.8343949	14.64968153	2	1	7	2
637	5	0	0	22	5	9.047619048	4.285714286	79.04761905	4.761904762	2.380952381	2	1	14	2
638	0	0	0	25	6	1.643385374	1.643385374	23.58258012	14.46179129	58.34018077	3	2	12	4
639	0	0	0	18	3	7.384615385	3.692307692	48.61538462	6.461538462	33.84615385	3	1	10	2
640	4	0	0	26	7	5.042016807	0.420168067	31.09243697	22.68907563	34.87394958	5	1	12	3
641	0	0	0	22	5	25.78616352	0.314465409	4.716981132	67.29559748	0.314465409	8	1	6	4
642	1	0	0	25	6	13.61867704	0.389105058	70.42801556	5.058365759	8.171206226	4	1	12	4
643	5	0	0	28	8	5.590062112	0	81.36645963	4.037267081	8.074534161	3	0	19	2
644	4	0	0	26	5	7.478632479	2.564102564	61.53846154	18.8034188	6.837606838	3	1	13	2
645	5	0	0	28	5	3.846153846	5.494505495	57.69230769	13.46153846	18.13186813	4	1	16	3
646	6	0	0	22	4	6.530612245	11.83673469	64.89795918	6.93877551	8.163265306	2	1	12	1
647	0	0	0	20	2	5.429864253	19.90950226	14.02714932	7.692307692	27.14932127	3	4	5	2
648	1	0	0	26	6	4.201680672	2.941176471	67.64705882	2.521008403	15.54621849	3	1	12	2
649	1	0	0	20	4	6.779661017	2.711864407	61.01694915	1.355932203	24.74576271	3	3	9	1
650	4	0	0	27	6	19.08127208	0	60.42402827	10.24734982	9.540636042	3	0	17	3
651	3	0	0	25	4	51.74825175	0.34965035	20.97902098	24.47552448	2.447552448	5	1	13	4
652	3	0	0	27	7	21.94570136	0.452488688	62.21719457	0.678733032	13.80090498	4	1	16	2
653	5	0	0	24	6	0.904977376	0	52.0361991	2.262443439	18.5520362	2	0	13	3
654	0	0	0	19	5	0.794491525	0	86.65254237	7.044491525	0.211864407	5	0	6	3
655	4	0	0	24	4	5.102040816	0	89.11564626	1.700680272	2.380952381	4	0	14	2
656	1	0	0	28	9	8.767772512	4.146919431	62.67772512	13.62559242	2.014218009	5	2	10	4
657	1	0	0	22	7	22.29654404	0	72.68673356	3.901895206	0.557413601	4	0	11	4
658	1	0	0	15	2	14.22018349	0	14.06727829	6.116207951	2.905198777	5	0	4	2
659	3	0	0	18	3	7.777777778	44.07407407	33.33333333	0.740740741	4.814814815	2	1	9	2
660	3	0	0	21	5	5.315614618	1.328903654	82.39202658	6.976744186	0.664451827	2	1	12	2
661	4	0	0	20	5	0.931677019	0.931677019	54.34782609	18.01242236	20.49689441	2	1	13	1
662	0	0	0	18	4	6.557377049	0.327868852	84.91803279	2.62295082	2.950819672	2	1	9	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
663	2	0	0	24	6	15.15151515	0.378787879	70.83333333	1.515151515	7.196969697	4	1	9	3
664	7	0	0	27	5	7.936507937	2.380952381	45.63492063	7.53968254	29.76190476	4	1	12	5
665	3	0	0	24	6	32.57575758	0.757575758	35.98484848	1.136363636	28.78787879	4	1	14	2
666	4	0	0	25	5	10.27027027	0.540540541	78.37837838	8.648648649	0.540540541	9	1	9	4
667	3	0	0	22	6	5.223880597	4.850746269	70.89552239	1.865671642	13.80597015	2	1	13	2
668	3	0	0	14	4	38.98305085	5.084745763	29.66101695	10.16949153	0	4	2	5	2
669	4	0	0	14	3	7.01754386	14.03508772	63.15789474	1.754385965	1.754385965	2	1	7	1
670	4	0	0	26	5	43.62745098	10.78431373	31.61764706	1.470588235	8.088235294	4	2	11	4
671	4	0	0	22	6	42	6	41.5	1.5	3	4	2	9	3
672	2	0	0	20	5	19.60784314	0	62.74509804	1.960784314	14.70588235	2	0	11	2
673	4	0	0	22	4	24.36708861	0	66.13924051	3.164556962	6.329113924	4	0	13	3
674	3	0	0	23	5	27.37430168	0	50.83798883	2.793296089	18.99441341	3	0	15	2
675	2	0	0	19	3	9.625668449	12.8342246	68.98395722	3.20855615	5.347593583	4	1	9	3
676	5	0	0	22	6	9.407665505	5.923344948	73.17073171	6.271777003	3.135888502	3	1	11	3
677	5	0	0	26	6	4.761904762	0.432900433	87.87878788	2.164502165	0.432900433	3	1	16	3
678	1	0	0	17	6	4.231625835	0	83.74164811	1.781737194	10.24498886	3	0	10	2
679	8	0	0	22	2	4.149377593	0.414937759	39.00414938	35.26970954	20.33195021	2	1	12	4
680	4	0	0	17	2	6.690140845	0	84.85915493	0.704225352	7.042253521	5	0	8	1
681	4	0	0	21	6	5.673758865	1.063829787	58.86524823	0.354609929	34.04255319	4	1	12	1
682	6	0	0	24	6	3.765690377	10.87866109	66.10878661	6.276150628	12.55230126	1	1	16	2
683	1	0	0	16	3	8.058608059	0	52.74725275	0	38.82783883	6	0	7	0
684	0	0	0	14	6	7.457627119	0	75.59322034	1.355932203	15.59322034	3	0	9	1
685	0	0	0	16	6	12.25296443	0	76.28458498	0.395256917	10.27667984	3	0	10	1
686	2	1	0	19	6	7.594936709	6.329113924	82.27848101	0.843881857	2.953586498	3	1	13	1
687	5	1	0	24	5	8.494208494	20.46332046	65.25096525	1.158301158	3.474903475	2	1	15	1
688	2	0	0	25	7	13.33333333	0	61.66666667	1	23	4	0	13	2
689	6	0	0	23	7	5.726872247	6.167400881	64.75770925	4.845814978	18.06167401	1	1	16	2
690	2	0	0	16	3	8.064516129	0	54.43548387	7.258064516	28.62903226	3	0	8	3
691	2	0	0	19	3	13.73801917	0	35.7827476	18.21086262	30.03194888	4	0	9	3
692	1	0	0	5	2	0	33.33333333	16.66666667	33.33333333	0	0	2	1	1
693	0	0	0	8	2	38.0952381	12.6984127	15.87301587	31.74603175	0	2	1	2	2
694	0	0	0	8	2	36.36363636	18.18181818	18.18181818	18.18181818	9.090909091	3	1	2	1
695	8	0	0	29	6	31.96635121	0.630914826	55.73080967	8.201892744	2.103049422	3	1	17	5
696	5	0	0	21	5	20.92050209	0	58.57740586	10.87866109	4.60251046	2	0	11	3
697	1	0	0	25	4	13.46801347	12.12121212	46.12794613	8.417508418	16.4983165	3	2	10	3
698	1	0	0	27	6	3.832752613	11.49825784	13.93728223	25.78397213	34.14634146	2	4	9	3
699	3	0	0	35	10	7.52	2.72	75.2	4.16	6.88	3	5	15	6
700	1	0	0	25	5	3.956834532	6.115107914	32.01438849	20.86330935	33.45323741	4	4	9	2
701	2	0	0	21	5	28.01724138	0	60.34482759	2.155172414	9.482758621	3	0	14	2
702	2	0	0	23	7	26.06060606	0.606060606	61.81818182	2.424242424	9.090909091	2	1	15	3
703	2	0	0	21	5	25.85034014	0	46.2585034	2.040816327	24.48979592	4	0	12	2
704	1	0	0	18	2	11.5942029	2.415458937	17.39130435	3.8647343	63.76811594	4	1	3	3
705	1	0	0	15	3	6.181818182	0.363636364	18.54545455	0.363636364	71.63636364	4	1	4	1
706	2	0	0	15	6	5.641025641	5.128205128	75.8974359	0	13.33333333	2	2	9	0
707	2	0	0	23	5	44.78764479	4.247104247	25.86872587	8.88030888	14.67181467	5	2	7	4

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
708	4	0	0	27	6	33.01587302	1.26984127	31.74603175	17.77777778	10.79365079	4	3	9	5
709	1	0	0	22	5	16.04938272	0	51.44032922	3.703703704	27.57201646	2	0	13	3
710	3	0	0	31	10	28.17337461	1.238390093	55.26315789	8.204334365	6.191950464	3	1	17	4
713	2	0	0	29	7	10.03584229	8.422939068	74.01433692	4.838709677	2.150537634	3	2	15	4
716	2	0	0	21	6	39.20454545	6.25	40.90909091	6.25	3.977272727	2	1	11	2
717	2	0	0	23	6	70.995671	1.731601732	7.359307359	14.71861472	0.216450216	3	3	8	5
718	2	0	0	18	3	59.84455959	5.440414508	19.68911917	12.69430052	2.331606218	3	2	10	1
719	2	0	0	30	7	0.974658869	1.559454191	77.582846	9.941520468	7.602339181	3	1	18	1
720	1	0	0	24	5	0.760456274	1.140684411	72.24334601	21.29277567	3.802281369	1	2	14	1
723	1	0	0	23	6	23.97260274	1.369863014	48.28767123	19.17808219	6.164383562	2	3	12	2
724	2	0	0	32	8	23.37164751	10.72796935	16.09195402	28.35249042	14.17624521	3	6	13	2
725	1	0	0	36	9	8.868501529	3.160040775	69.52089704	8.460754332	8.76656473	3	3	22	3
728	0	0	0	31	7	7.692307692	9.79020979	49.3006993	8.741258741	10.13986014	3	4	16	3
729	1	0	0	26	5	14.28571429	45.71428571	8.571428571	20.81632653	4.897959184	5	5	6	3
730	1	0	0	29	9	12.40310078	11.24031008	35.65891473	15.89147287	17.05426357	4	4	13	4
731	1	0	0	24	6	10.55276382	15.41038526	57.62144054	11.39028476	4.690117253	3	3	12	3
732	1	0	0	19	5	20.34632035	0	36.36363636	40.25974026	3.03030303	3	0	10	5
733	2	0	0	18	5	8.294930876	0	38.70967742	44.70046083	7.834101382	3	0	8	5
734	1	0	0	21	4	16.21621622	0	39.18918919	43.24324324	1.351351351	4	0	13	3
735	0	0	0	20	6	31.02564103	0.384615385	59.74358974	2.435897436	6.025641026	1	2	11	3
736	6	0	0	29	6	9.37896071	1.140684411	72.05323194	1.584283904	15.65272497	4	1	15	2
737	0	0	0	15	1	41.13207547	1.132075472	14.33962264	17.73584906	13.20754717	2	1	4	2
738	0	0	0	14	2	52.53411306	9.75 -02	18.51851852	26.02339181	0	6	1	2	2
739	0	0	0	24	6	21.26436782	1.005747126	69.54022989	3.591954023	3.16091954	2	2	12	3
740	0	0	0	21	8	4.032258065	0	84.67741935	0.806451613	9.677419355	4	0	14	1
741	0	0	0	15	2	29.13907285	0	66.00441501	1.766004415	0	2	0	7	3
742	0	0	0	14	4	17.43119266	0	66.97247706	0	13.76146789	2	0	9	0
743	1	0	0	20	3	10.11357491	0	60.41103299	10.43807463	17.19848567	2	0	10	3
744	0	0	0	20	3	20.85561497	0	40.64171123	10.42780749	16.31016043	2	0	9	2
745	0	0	0	14	1	45	1.111111111	9.444444444	0	7.222222222	3	2	3	0
746	0	0	0	6	1	4.166666667	8.333333333	75	0	4.166666667	1	1	2	0
747	0	0	0	9	2	6.25	0	71.875	3.125	9.375	1	0	5	1
748	0	0	0	0	0	0	0	0	0	0	0	0	0	0
749	0	0	0	6	1	10.52631579	0	56.57894737	21.71052632	11.18421053	1	0	3	1
750	0	0	0	11	2	19.13875598	0	64.11483254	4.306220096	11.96172249	2	0	4	1
751	0	0	0	21	5	0.253807107	0.76142132	88.07106599	0.76142132	6.852791878	1	2	12	2
752	0	0	0	6	1	13.95437262	3.80 -02	86.00760456	0	0	3	1	2	0
753	4	1	0	12	3	0	6.299212598	50.39370079	7.086614173	36.22047244	0	1	9	1
754	3	1	0	14	0	6.069364162	0.289017341	28.61271676	1.156069364	63.58381503	1	1	7	2
755	1	0	0	10	3	18.2320442	0	11.04972376	44.19889503	24.30939227	4	0	3	1
756	4	0	0	25	8	46.38868206	0	38.79374535	0.297840655	1.414743112	3	0	17	1
757	3	0	0	19	6	22.15088283	0.321027287	51.20385233	6.902086677	5.778491172	2	1	11	2
758	1	0	0	20	8	12.38584475	0	77.16894977	1.198630137	5.02283105	4	0	10	3
759	0	0	0	11	0	50	0	3.333333333	1.666666667	28.33333333	2	0	2	1
760	0	0	0	17	4	1.467772814	1.723037652	91.64007658	2.425015954	1.148691768	1	1	10	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
761	0	0	0	21	5	3.81270903	0	95.18394649	0.535117057	0.334448161	3	0	13	2
762	0	0	0	17	2	22.03856749	0	18.73278237	16.25344353	34.7107438	3	0	6	2
763	1	0	0	23	6	2.52293578	0.152905199	35.62691131	5.275229358	56.19266055	3	2	9	3
764	0	0	0	19	5	24.24342105	0.164473684	74.14473684	0.328947368	0.625	1	2	10	2
765	4	1	0	25	7	9.124087591	0.729927007	74.27007299	1.824817518	13.68613139	2	1	17	2
766	0	0	0	29	4	19.90212072	9.787928222	38.3360522	13.53996737	16.88417618	7	4	10	3
767	0	0	0	13	2	3.573085847	1.252900232	1.62412993	0	4.64 -02	3	2	3	0
768	0	0	0	28	10	18.79310345	0.172413793	51.55172414	19.82758621	7.75862069	2	1	16	4
769	5	0	0	25	5	28.40095465	0	39.37947494	6.443914081	7.875894988	3	0	12	6
770	5	0	0	22	6	17.58241758	0	52.1978022	2.747252747	4.395604396	3	0	13	3
771	3	0	0	19	4	0.462249615	2.465331279	86.74884438	0.462249615	9.553158706	3	1	11	1
772	0	0	0	13	2	3.448275862	4.597701149	73.56321839	0	17.24137931	2	1	5	0
773	0	0	0	17	3	61.33098798	2.93 -02	29.22896511	5.540897098	3.195543829	2	1	8	3
774	0	0	0	0	0	0	0	0	0	0	0	0	0	0
775	0	0	0	9	1	41.42857143	2.857142857	12.85714286	14.28571429	27.14285714	2	1	2	2
776	8	0	0	30	5	5.555555556	0	67.82407407	2.314814815	23.61111111	3	0	18	5
777	0	0	0	7	1	6.578947368	14.47368421	43.42105263	0	35.52631579	1	2	3	0
778	0	0	0	22	8	3.036876356	0.650759219	83.73101952	2.169197397	1.301518438	1	2	14	1
779	0	0	0	12	1	9.302325581	16.27906977	51.1627907	5.813953488	1.162790698	2	2	2	2
780	2	0	0	20	4	11.5234375	0.78125	72.65625	13.28125	1.171875	4	2	7	4
781	3	0	0	18	5	23.26621924	0	47.65100671	4.697986577	24.38478747	3	0	10	3
782	1	0	0	10	1	11.76470588	0	25.49019608	31.37254902	27.45098039	3	0	3	1
783	0	0	0	8	0	20.92198582	34.92907801	1.418439716	0.531914894	41.84397163	1	1	1	1
784	0	0	0	9	1	61.04651163	1.162790698	25.58139535	0	12.20930233	1	2	3	0
785	0	0	0	9	2	1.25	0	47.1875	1.5625	48.75	3	0	3	1
786	0	0	0	6	0	77.15736041	0	18.27411168	1.52284264	0	3	0	1	1
787	0	0	0	3	1	0	0	60	40	0	0	0	2	1
788	0	0	0	17	6	33.5483871	0	29.21658986	3.133640553	2.211981567	1	0	10	2
789	0	0	0	14	0	93.1735067	0	2.275497765	1.340918326	2.72247054	3	0	2	4
790	1	0	0	19	3	12.52566735	0	13.5523614	7.597535934	16.63244353	3	0	5	6
791	2	0	0	22	2	28.88482633	0.731261426	29.61608775	19.92687386	20.65813528	3	1	7	6
792	0	0	0	25	6	7.446808511	2.127659574	69.85815603	5.319148936	7.092198582	1	3	8	3
793	4	0	0	21	5	22.81553398	0	68.93203883	0.485436893	2.427184466	5	0	11	1
794	2	0	0	29	6	10.35474593	1.534036433	71.81208054	0.862895494	10.4506232	3	5	12	3
795	0	0	0	8	2	24.13793103	24.13793103	24.13793103	0	25.86206897	2	1	3	0
796	0	0	0	20	1	20.40816327	5.102040816	19.3877551	4.081632653	14.28571429	3	2	5	2
797	0	0	0	11	0	10.20408163	0	10.20408163	16.32653061	28.57142857	1	0	2	3
798	0	0	0	19	6	3.870967742	5.161290323	58.06451613	0.64516129	2.580645161	2	3	10	1
799	0	0	0	13	1	0.701754386	1.052631579	67.36842105	13.33333333	17.19298246	1	1	5	3
800	0	0	0	2	0	0	0	0	0	0	0	0	0	0
801	0	0	0	18	5	2.105263158	2.631578947	88.42105263	0	1.052631579	1	1	10	0
802	0	0	0	7	1	8.870967742	0	86.29032258	0	4.032258065	2	0	2	0
807	2	0	0	19	1	19.78021978	4.578754579	19.78021978	2.197802198	13.55311355	4	1	6	2
812	3	0	0	17	2	10.98398169	7.322654462	54.00457666	12.58581236	4.118993135	3	2	6	2
813	1	0	0	11	0	25.33333333	2.333333333	65	5	1.666666667	3	1	2	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	PlecoTax	PteroTax	TanytTax	TotalTax	TrichTax	BrrwrPct	ClmbrPct	ClngrPct	SprwlPct	SwmmrPct	BrrwrTax	ClmbrTax	ClngrTax	SprwlTax
814	0	0	0	18	1	44.39655172	5.172413793	4.310344828	2.155172414	28.44827586	2	4	3	3
815	1	0	0	22	3	25	2.430555556	19.61805556	12.5	13.19444444	4	3	4	6
816	0	0	0	0	0	0	0	0	0	0	0	0	0	0
817	1	0	0	17	1	35.45454545	3.181818182	11.81818182	37.72727273	6.363636364	2	4	3	4
818	0	0	0	7	1	8.870967742	0	86.29032258	0	4.032258065	2	0	2	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
23	0	50.52083333	6.770833333	0.520833333	0	0	2	1	1	0	0
24	2	20.63492063	0	10.26455026	41.48148148	6.878306878	5	0	5	3	2
25	1	14.63178295	13.37209302	5.135658915	30.62015504	0.484496124	2	1	3	4	2
26	1	45.59471366	2.863436123	0.660792952	12.11453744	0	3	1	1	2	0
27	2	50.82644628	2.789256198	8.47107438	4.23553719	1.652892562	7	1	10	3	2
28	3	48.5059761	4.183266932	2.390438247	7.171314741	29.88047809	9	1	7	3	4
29	1	25.92592593	63.3744856	6.995884774	0	3.703703704	8	1	2	0	3
30	2	24.87373737	26.89393939	7.323232323	27.52525253	2.272727273	6	2	4	3	6
31	2	43.87755102	13.43537415	8.503401361	0.510204082	2.040816327	7	1	5	2	2
32	3	22.96918768	0	8.403361345	64.14565826	3.361344538	8	0	4	3	6
33	3	27.24757953	3.181189488	1.659751037	1.244813278	50.06915629	7	1	4	2	3
34	3	39.3220339	3.050847458	2.372881356	0.169491525	49.3220339	10	1	4	1	3
35	2	25.28957529	0.193050193	14.47876448	58.3011583	0.579150579	5	1	6	5	2
36	1	24.03100775	48.19121447	1.291989664	9.302325581	16.1498708	5	1	5	4	3
37	2	17.51054852	18.35443038	9.493670886	32.06751055	0.210970464	5	3	7	7	1
38	1	17.39130435	32.10702341	1.672240803	5.183946488	4.849498328	7	1	5	3	2
39	3	13.04347826	1.185770751	2.635046113	4.611330698	59.94729908	10	1	4	2	2
40	1	33.18181818	0	4.090909091	54.54545455	5	4	0	4	3	4
41	1	78.01724138	1.293103448	6.034482759	7.75862069	6.034482759	8	1	6	2	4
42	1	84.24821002	0.238663484	2.863961814	3.579952267	7.398568019	5	1	4	3	2
43	1	86.70634921	0	3.968253968	5.357142857	2.182539683	7	0	7	5	2
44	1	91.2596401	1.799485861	0.257069409	6.16966581	0	7	1	1	3	0
45	1	86.02150538	1.075268817	1.612903226	9.677419355	0	6	1	2	2	0
46	1	67.90469516	13.59495445	2.803083392	12.82410652	1.61177295	7	2	3	3	1
47	2	60.37151703	0.309597523	17.64705882	12.38390093	2.167182663	6	1	7	7	3
48	1	56.96202532	0.316455696	19.62025316	20.88607595	0.949367089	8	1	8	6	2
49	1	28.41530055	18.57923497	15.30054645	1.092896175	0	4	1	4	1	0
50	1	84.21052632	13.15789474	2.631578947	0	0	4	1	1	0	0
51	1	80.35714286	10.71428571	7.142857143	1.785714286	0	4	1	2	1	0
52	2	77.19298246	7.01754386	7.01754386	5.263157895	0	6	2	2	1	0
53	0	0	0	66.66666667	0	0	0	0	1	0	0
54	2	71.55172414	8.620689655	4.310344828	6.896551724	2.586206897	7	1	4	2	3
55	2	56.58682635	11.07784431	3.293413174	5.089820359	1.796407186	11	1	4	1	3
56	1	53.87205387	17.84511785	8.754208754	1.346801347	5.387205387	5	2	7	2	3
57	1	58.64978903	0	8.016877637	2.109704641	4.641350211	8	0	5	2	2
58	2	69.10569106	0	21.95121951	0.81300813	8.130081301	3	0	3	1	2
59	2	43.31210191	1.910828025	35.66878981	14.01273885	5.095541401	4	1	4	1	2
60	2	28.01932367	11.5942029	19.3236715	0	40.09661836	3	2	6	0	2
61	2	28.40909091	1.704545455	16.47727273	0.568181818	52.27272727	5	1	7	1	2
62	3	50	0	4.081632653	0	14.28571429	3	0	4	0	2
63	1	93.1372549	2.156862745	0	0	4.705882353	3	1	0	0	3
64	1	29.50819672	21.31147541	1.639344262	1.639344262	45.90163934	3	1	1	1	2
65	2	76	15.33333333	4	1.333333333	1.333333333	8	2	3	2	1
66	2	58.65102639	20.23460411	1.173020528	13.19648094	5.571847507	8	1	4	1	2
67	2	66.12021858	0.819672131	0.273224044	5.464480874	3.551912568	8	1	1	2	4

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
68	2	50.84033613	0.840336134	0.420168067	1.260504202	5.462184874	7	1	1	1	3
69	1	60.58631922	16.61237785	3.25732899	13.02931596	3.25732899	10	1	5	2	2
70	3	60	16.31578947	12.10526316	0	7.894736842	9	2	9	0	3
71	1	55.3030303	11.36363636	5.303030303	18.18181818	6.818181818	5	1	3	2	3
72	2	61.94029851	19.40298507	1.492537313	2.23880597	7.462686567	7	2	1	2	2
73	3	68.83408072	17.04035874	1.34529148	3.587443946	6.053811659	10	3	3	4	2
74	2	65.12875536	0	3.21888412	22.96137339	7.296137339	7	0	6	3	4
75	3	58.03571429	25	3.571428571	0.892857143	1.785714286	9	2	2	1	2
76	3	49.42528736	29.59770115	5.747126437	4.885057471	4.885057471	6	2	3	3	2
77	2	40.24144869	1.810865191	5.633802817	30.38229376	11.67002012	8	1	6	6	4
78	2	21.73913043	0.668896321	13.04347826	44.48160535	20.06688963	3	2	5	2	5
79	1	48.17073171	6.097560976	5.792682927	4.573170732	28.96341463	7	3	5	3	4
80	2	57.14285714	11.07142857	4.285714286	0.357142857	1.785714286	7	3	7	1	4
81	1	49.18032787	30.6010929	8.196721311	0.546448087	3.278688525	7	2	5	1	4
82	1	71.40151515	2.272727273	3.03030303	9.46969697	2.462121212	5	1	5	4	5
83	2	61.42857143	0	16.42857143	11.42857143	7.857142857	5	0	5	3	3
84	2	61.27366609	2.237521515	5.851979346	2.925989673	4.475043029	5	2	3	1	4
85	2	32.33695652	4.279891304	6.453804348	0.135869565	27.30978261	8	1	7	1	2
86	2	38.44393593	11.8993135	4.805491991	5.034324943	6.407322654	7	3	5	4	2
87	3	22.34169654	6.093189964	8.124253286	0.597371565	14.6953405	8	1	9	1	4
88	2	25.04708098	2.824858757	13.37099812	8.851224105	18.6440678	8	1	6	3	5
89	2	64.86928105	0.980392157	5.065359477	7.679738562	14.21568627	8	3	8	2	3
90	1	66.88102894	1.39335477	11.14683816	1.178992497	12.00428725	9	2	6	2	5
91	1	47.4012474	0.623700624	8.93970894	2.910602911	24.94802495	9	2	7	2	4
92	3	33.36898396	3.743315508	6.203208556	0.64171123	34.01069519	8	2	6	2	4
93	2	83.11688312	0.324675325	3.571428571	1.298701299	7.954545455	8	1	6	3	5
94	2	45.37815126	2.133160957	7.433742728	2.068519716	39.88364577	9	1	6	4	5
95	1	26.40692641	1.298701299	57.14285714	2.164502165	11.68831169	7	1	7	2	4
96	1	46.47058824	30	3.823529412	6.764705882	3.529411765	6	1	5	2	3
97	2	45.76612903	36.89516129	0	6.25	2.016129032	7	1	0	1	3
98	1	37.18309859	0	0.704225352	4.929577465	1.267605634	6	0	2	2	2
99	2	18.06526807	18.06526807	0.34965035	2.797202797	12.004662	8	2	3	2	3
100	2	74.70023981	14.74820144	2.278177458	2.877697842	3.597122302	7	1	3	2	3
101	1	20.28985507	53.62318841	7.729468599	0.483091787	10.62801932	6	2	4	1	2
102	1	79.11611785	17.67764298	0.953206239	1.64644714	8.67 -02	6	3	3	2	1
103	0	52.53077975	44.45964432	0.683994528	0.136798906	0.820793434	4	4	3	1	1
104	0	71.03004292	24.67811159	0.429184549	1.502145923	1.072961373	4	3	1	1	1
105	1	34.17085427	5.527638191	56.28140704	0	1.507537688	5	2	5	0	2
106	3	46.88128773	2.012072435	4.024144869	16.29778672	7.444668008	10	1	5	2	6
107	3	39.87341772	0.158227848	6.962025316	9.018987342	13.60759494	9	1	8	4	6
108	2	37.29809104	0	8.370044053	16.88693098	9.544787078	10	0	9	4	6
109	4	54.69061876	1.663339987	5.123087159	0.731869594	24.6174318	10	1	7	3	5
110	2	33.12883436	1.993865031	5.674846626	0.460122699	34.04907975	7	2	8	2	4
111	4	36.22685185	1.967592593	6.25	3.009259259	17.36111111	10	1	8	2	3
112	1	64.80446927	7.262569832	16.75977654	0.558659218	6.145251397	3	1	8	1	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
113	2	38.95131086	4.307116105	5.337078652	4.775280899	34.83146067	10	2	10	1	4
114	2	94.42090395	7.06 -02	1.906779661	0.494350282	2.683615819	7	1	6	1	6
115	2	58.53269537	6.53907496	12.75917065	1.594896332	7.177033493	8	4	8	4	4
116	2	40.98484848	9.166666667	6.212121212	0	9.772727273	9	2	9	0	1
117	2	37.6984127	0.992063492	9.325396825	24.00793651	5.753968254	10	1	8	4	4
118	0	7.142857143	0	69.04761905	0	0	3	0	4	0	0
119	1	55.23385301	30.51224944	10.91314031	0.890868597	1.781737194	5	1	3	1	3
120	0	17.1875	9.375	20.3125	0	53.125	2	1	5	0	2
121	1	93.42105263	3.50877193	1.754385965	0.877192982	0.438596491	5	1	1	2	1
122	1	48.9539749	21.33891213	7.949790795	9.205020921	1.673640167	3	1	5	3	1
123	3	32.33695652	29.77807971	3.872282609	19.24818841	1.539855072	9	1	4	4	2
124	1	82.48847926	3.225806452	2.304147465	2.304147465	5.529953917	7	2	2	1	1
125	1	65.87301587	3.968253968	3.968253968	14.28571429	2.380952381	6	2	3	1	1
126	2	71.6080402	6.030150754	1.75879397	10.55276382	1.75879397	6	3	4	3	2
127	1	36.08247423	3.608247423	1.030927835	45.87628866	0	5	2	2	2	0
128	1	25.56818182	32.95454545	3.409090909	7.386363636	0	8	2	3	2	0
129	1	43.61054767	48.27586207	1.21703854	0.202839757	0.60851927	8	2	2	1	2
130	2	13.62007168	51.61290323	1.792114695	2.867383513	0.716845878	6	2	4	2	1
131	1	49.79253112	0	2.489626556	0	47.51037344	4	0	3	0	3
132	2	31.2244898	0.204081633	15.91836735	19.59183673	10.81632653	7	1	5	1	6
133	3	26.12826603	0	18.76484561	19.23990499	2.375296912	7	0	8	1	4
134	2	29.76588629	0	14.71571906	16.05351171	5.685618729	6	0	7	1	2
135	3	15.54878049	0	16.46341463	14.63414634	6.707317073	10	0	5	1	3
136	3	23.52941176	0.326797386	30.06535948	10.45751634	23.20261438	4	1	6	2	5
137	4	39.52095808	1.19760479	9.880239521	13.32335329	1.347305389	8	2	9	2	3
138	2	21.96969697	6.313131313	3.03030303	11.61616162	0	6	2	3	4	0
139	3	23.46368715	12.5698324	5.027932961	19.55307263	0	8	2	4	3	0
140	3	32.56704981	31.9284802	4.086845466	8.684546616	1.53256705	10	2	5	2	2
141	3	31.57894737	17.54385965	4.093567251	8.771929825	0.584795322	4	2	5	2	1
142	1	52.56410256	3.846153846	10.25641026	6.41025641	7.692307692	5	1	2	1	1
143	2	7.952622673	89.00169205	0.507614213	0.338409475	0	6	2	2	1	0
144	1	99.77973568	0	0	0.220264317	0	4	0	0	1	0
145	1	63.63636364	12.12121212	7.359307359	16.88311688	0	6	1	1	1	0
146	1	66.09336609	1.474201474	30.95823096	1.474201474	0	5	1	2	2	0
147	1	81.48148148	4.074074074	5.185185185	8.518518519	0	7	2	1	1	0
148	1	52.63157895	15.78947368	5.263157895	5.263157895	0	4	1	1	1	0
149	1	25.29335072	64.01564537	0.130378096	0.130378096	3.911342894	7	1	1	1	1
150	1	59.45945946	19.81981982	3.603603604	2.702702703	7.657657658	5	2	3	2	2
151	3	71.20500782	3.442879499	3.286384977	3.599374022	0.782472613	6	1	5	2	3
152	3	36.2170088	10.3372434	3.812316716	1.759530792	7.33 -02	7	2	8	1	1
153	3	50.67264574	0.373692078	0.523168909	10.91180867	36.77130045	6	1	3	2	1
154	3	39.3442623	2.017654477	4.224464061	11.03404792	1.071878941	6	1	7	3	4
155	3	31.12426036	11.36094675	7.455621302	11.47928994	23.66863905	7	3	5	3	4
156	4	33.361558	9.652836579	7.959356478	9.398814564	17.27349704	8	3	10	3	3
157	4	22.96110414	6.148055207	5.39523212	10.53952321	30.36386449	7	3	7	2	4

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
158	1	66.66666667	0	0	0	0	3	0	0	0	0
159	1	2.666666667	24.44444444	6.666666667	4.888888889	0	3	1	3	2	0
160	3	20	0	30.96774194	19.67741935	3.225806452	6	0	9	2	2
161	1	6.25	3.409090909	9.659090909	1.136363636	0	2	1	5	1	0
162	1	45.92592593	0	2.222222222	1.481481481	0	3	0	1	1	0
163	3	44.83798041	24.49133384	2.562170309	2.034664657	0.527505652	6	3	5	5	1
164	4	27.03260421	31.86132893	1.815930664	0.660338423	0.907965332	9	3	5	3	1
165	2	27.97927461	0	13.21243523	1.03626943	7.512953368	5	0	5	1	3
166	2	19.17293233	0.939849624	7.330827068	9.398496241	30.63909774	9	2	6	1	4
167	1	40.1826484	9.817351598	9.360730594	5.251141553	13.24200913	6	4	4	2	4
168	2	33.40040241	0	4.225352113	0.402414487	9.054325956	9	0	6	1	4
169	4	19.50207469	0.829875519	7.053941909	10.1659751	26.76348548	8	1	7	3	3
170	3	26.93133047	0.107296137	3.433476395	1.60944206	25.42918455	8	1	9	2	4
171	3	75.10316369	0	6.602475928	5.089408528	7.290233838	7	0	10	3	6
172	2	47.64397906	8.90052356	17.80104712	1.570680628	9.42408377	6	2	4	1	3
173	1	43.98340249	18.25726141	3.734439834	0	1.244813278	6	2	3	0	2
174	1	90.4109589	0.684931507	7.534246575	0.684931507	0	3	1	1	1	0
175	1	65.76576577	25.22522523	4.504504505	1.801801802	0	2	1	2	1	0
176	2	94.58689459	5.128205128	0.284900285	0	0	6	1	1	0	0
177	2	75.4950495	22.27722772	1.98019802	0.247524752	0	7	2	4	1	0
178	2	57.63546798	0	4.187192118	3.9408867	28.81773399	7	0	4	1	3
179	3	55.76923077	0	6.538461538	0.769230769	11.53846154	11	0	4	1	3
180	3	72.30142566	11.40529532	8.350305499	0.407331976	4.887983707	8	2	6	1	5
183	3	47.08423326	0.215982721	5.831533477	0	8.207343413	10	1	7	0	4
184	3	33.53658537	0	11.58536585	16.76829268	7.62195122	7	0	6	4	4
185	0	91.20603015	0	1.256281407	3.015075377	3.894472362	6	0	4	3	4
186	1	61.95335277	5.976676385	2.915451895	7.361516035	0.29154519	7	2	4	2	2
187	1	18.18181818	0.216450216	7.359307359	39.17748918	1.731601732	6	1	6	3	3
188	1	25.51020408	36.73469388	1.360544218	0	8.163265306	2	2	3	0	3
189	1	47.82608696	28.26086957	2.173913043	4.347826087	10.86956522	5	2	2	3	2
190	2	78.5	0	9.5	0	2	7	0	4	0	1
191	2	78.59078591	0	9.756097561	0	1.89701897	8	0	6	0	3
192	1	29.81481481	0	22.40740741	23.33333333	11.2962963	3	0	6	2	4
193	1	58.13953488	8.010335917	4.134366925	8.26873385	2.325581395	6	1	5	2	1
194	2	71.21588089	0	8.436724566	3.970223325	3.473945409	7	0	3	2	3
195	4	62.11723535	10.84864392	0.874890639	5.861767279	1.837270341	10	2	6	3	1
196	2	38.43717001	20.59134108	1.583949314	31.36219641	1.055966209	9	2	5	3	2
197	2	8.156028369	0	13.4751773	26.24113475	20.92198582	6	0	6	3	5
198	2	16	0	14	2.666666667	2.666666667	4	0	2	1	3
199	1	43.35548173	0.166112957	20.09966777	1.993355482	10.46511628	3	1	5	2	6
200	4	55.56994819	0.129533679	16.58031088	1.424870466	5.958549223	10	1	6	1	2
201	2	22.41758242	0	10.32967033	12.52747253	25.27472527	5	0	11	1	1
202	3	16.99029126	5.825242718	1.941747573	66.01941748	5.339805825	4	2	3	3	1
203	1	17.99242424	16.28787879	1.325757576	2.083333333	0.189393939	6	2	2	3	1
204	2	19.72972973	23.51351351	0.810810811	4.864864865	1.621621622	5	1	3	4	3

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
205	1	13.23155216	8.142493639	1.272264631	2.544529262	0.254452926	4	2	1	2	1
206	3	35.27885863	4.150453956	2.853437095	7.782101167	0.129701686	6	2	6	2	1
207	2	36.42172524	7.028753994	2.715654952	3.354632588	0.638977636	6	2	4	2	1
208	2	96.98492462	0	0	0	0.753768844	3	0	0	0	2
209	3	29.87358616	7.252162342	2.129075183	7.318695941	0.199600798	6	1	10	4	2
210	2	11.23595506	8.707865169	0.280898876	4.494382022	0.280898876	4	2	1	3	1
211	2	33.42541436	38.39779006	0	9.392265193	0.552486188	5	3	0	4	2
212	3	34.23423423	0	4.504504505	5.405405405	0	6	0	3	1	0
213	1	33.53293413	53.29341317	0	0.598802395	0.598802395	6	2	0	1	1
214	1	45.80645161	25.59139785	1.935483871	1.935483871	1.075268817	5	2	4	2	2
215	1	25.5033557	0.67114094	0.33557047	2.516778523	0.167785235	5	2	1	2	1
216	1	41.73913043	0.434782609	0.434782609	0.869565217	26.95652174	6	1	1	2	2
217	2	15.96516691	0.290275762	0.290275762	0.435413643	9.433962264	5	2	2	2	1
218	2	28.38709677	0	0	0.860215054	9.677419355	7	0	0	1	3
219	3	33.12757202	1.234567901	8.024691358	16.04938272	2.263374486	10	2	6	4	3
220	3	35.4978355	0.432900433	15.15151515	6.493506494	11.68831169	6	1	9	2	4
221	2	38.80597015	0.149253731	4.179104478	5.970149254	21.94029851	10	1	6	1	4
222	2	15.14032496	48.30132939	6.94239291	1.255539143	3.17577548	8	4	10	2	2
223	1	34.15783274	0.824499411	4.475853946	2.120141343	14.13427562	8	3	6	1	5
224	2	19.93957704	0	12.38670695	25.3776435	29.60725076	5	0	7	3	5
225	2	10.73825503	0	36.91275168	5.369127517	18.12080537	5	0	7	2	5
226	3	25.36912752	0	20.93959732	1.476510067	34.76510067	5	0	7	2	8
227	4	25.73099415	4.678362573	13.88888889	10.81871345	14.76608187	8	2	6	4	3
228	2	44.94382022	0.715015322	5.617977528	5.413687436	0.919305414	6	1	5	1	1
229	2	71.98067633	1.771336554	5.475040258	2.093397746	2.254428341	7	1	6	2	2
230	3	18.22916667	0	25.86805556	28.81944444	17.1875	6	0	5	2	4
231	2	37.92207792	0	13.24675325	4.155844156	21.81818182	7	0	6	1	4
232	3	23.14606742	5.617977528	8.539325843	20.4494382	21.57303371	11	3	8	4	4
233	5	16.32653061	5.685131195	8.60058309	15.45189504	25.80174927	8	4	8	4	4
234	1	78.76106195	5.309734513	4.424778761	0.884955752	0.884955752	4	1	2	1	1
235	2	83.33333333	4.166666667	0	0	0	4	1	0	0	0
236	2	39.56989247	0	33.5483871	4.301075269	1.290322581	6	0	5	2	2
237	5	15.4248366	0	11.63398693	21.17647059	39.60784314	8	0	6	3	5
238	3	35.40462428	0.433526012	9.971098266	3.757225434	15.02890173	11	1	7	3	5
239	2	90.0243309	0	4.379562044	2.433090024	0.97323601	6	0	2	1	2
240	2	51.69902913	0	3.640776699	6.553398058	10.9223301	10	0	4	1	3
241	1	60.09174312	1.834862385	15.59633028	1.146788991	10.77981651	7	2	7	2	4
242	3	37.73234201	0	3.159851301	0	16.35687732	9	0	7	0	4
243	1	45.89552239	0	11.94029851	10.07462687	5.970149254	8	0	5	2	3
244	2	43.81270903	17.50278707	4.570791527	0.557413601	1.895206243	6	1	5	2	3
245	2	43.86160714	17.52232143	4.464285714	0.558035714	1.897321429	6	1	6	2	3
246	1	35.34246575	16.71232877	2.739726027	1.095890411	3.835616438	6	1	4	1	5
247	1	91.92200557	0	5.013927577	1.114206128	0.139275766	4	0	3	1	1
248	1	49.21816828	7.8183172	2.308265078	9.084139985	6.329113924	6	1	6	3	2
249	4	58.33333333	0	17.02898551	3.442028986	4.347826087	9	0	10	4	7

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
250	1	55.61797753	0	3.93258427	30.33707865	1.685393258	8	0	4	2	3
252	2	60.97560976	0.696864111	3.484320557	0	4.529616725	8	1	3	0	2
253	2	54.85564304	0	8.923884514	2.099737533	2.624671916	9	0	5	1	3
254	2	48.69325997	4.814305365	4.264099037	2.338376891	6.189821183	9	2	6	2	5
255	1	45.16129032	0	4.838709677	7.258064516	4.301075269	6	0	4	2	2
256	0	96.24681934	0	1.335877863	0.636132316	0.190839695	4	0	5	1	1
257	2	68.14814815	0	4.444444444	1.851851852	1.851851852	8	0	4	1	1
258	3	55.70032573	0	3.908794788	19.86970684	1.302931596	7	0	3	2	3
259	2	28.37209302	0	23.95348837	28.13953488	12.55813953	6	0	5	2	3
260	1	56.02605863	0	8.469055375	7.166123779	7.491856678	8	0	4	2	3
261	3	53.37620579	0	9.324758842	8.681672026	2.572347267	10	0	6	2	3
262	3	77.99145299	0	5.555555556	0.213675214	2.777777778	10	0	9	1	5
263	1	8.602150538	0	25.2688172	13.97849462	6.989247312	4	0	7	2	4
264	2	8.982035928	0	13.17365269	10.77844311	7.185628743	2	0	3	2	6
265	2	28.40236686	0.295857988	31.06508876	6.213017751	5.325443787	5	1	5	1	3
266	2	77.5862069	0.862068966	6.034482759	6.034482759	0	6	1	2	1	0
267	4	66.08695652	0	20	0	0	9	0	4	0	0
268	1	37.71186441	8.474576271	1.059322034	0.211864407	0.211864407	8	2	3	1	1
269	1	49.47368421	11.57894737	4.210526316	1.052631579	0	6	2	2	1	0
270	3	49.13043478	10.43478261	9.565217391	17.82608696	0	9	1	5	4	0
271	5	80.53435115	0	3.435114504	4.961832061	1.526717557	9	0	4	3	2
272	1	76.74418605	1.162790698	20.93023256	0	0	3	1	1	0	0
273	1	46.15384615	0	16.92307692	0	4.615384615	6	0	1	0	1
274	3	9.274193548	2.620967742	6.85483871	18.5483871	15.12096774	4	1	8	4	4
275	3	33.76865672	0	19.21641791	1.492537313	30.2238806	8	0	7	1	5
276	2	36.07924922	7.299270073	1.251303441	15.01564129	21.68925965	10	4	8	3	6
277	2	39.27315358	3.751465416	1.055099648	17.70222743	6.447831184	9	2	6	3	5
278	4	49.15254237	0.564971751	7.344632768	29.94350282	0	6	1	5	1	0
279	1	35.31468531	0.34965035	1.048951049	29.72027972	8.391608392	8	1	2	4	3
280	1	36.57407407	0	3.240740741	7.407407407	11.57407407	8	0	6	3	3
281	2	28.29268293	12.19512195	1.951219512	10.73170732	7.317073171	4	2	3	3	2
282	1	89.13043478	0	2.173913043	8.333333333	0.362318841	7	0	2	2	1
283	1	92.61744966	0	0	0	4.026845638	4	0	0	0	1
284	2	26.54320988	1.234567901	3.703703704	35.18518519	8.024691358	2	1	3	3	4
285	3	22.31012658	2.215189873	6.962025316	26.26582278	4.905063291	8	2	6	1	6
286	1	78.37837838	0	2.702702703	0	4.054054054	5	0	2	0	2
287	2	81.06060606	0	0.757575758	0	3.787878788	5	0	1	0	2
288	1	7.692307692	0.512820513	8.205128205	41.53846154	18.97435897	3	1	5	3	2
289	0	13.2231405	0	18.18181818	4.958677686	32.23140496	4	0	3	2	5
290	3	28.33562586	0.137551582	32.32462173	3.71389271	18.70701513	6	1	6	2	6
291	3	34.12162162	3.040540541	3.547297297	16.55405405	22.80405405	10	2	7	4	6
292	3	37.31617647	3.125	7.169117647	19.85294118	9.191176471	8	3	10	4	4
293	2	34.36807095	0.22172949	28.60310421	4.21286031	26.38580931	3	1	7	2	3
294	3	39.00481541	0.561797753	18.21829856	10.59390048	20.46548957	9	1	7	3	5
295	2	44.12153236	16.77675033	0.660501982	2.50990753	2.245706737	6	1	2	2	6

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
296	2	25.0090876	10.94147583	1.344965467	0.654307525	3.744093057	8	2	6	3	6
297	3	52.7638191	0	8.040201005	20.77051926	1.507537688	7	0	8	2	3
298	2	44.73684211	0	11.65413534	0.37593985	15.78947368	5	0	7	1	5
299	3	29.91202346	0	13.19648094	5.865102639	29.91202346	6	0	8	3	5
300	2	44.7592068	1.699716714	10.76487252	3.399433428	19.83002833	8	1	6	2	4
301	1	46.93877551	1.530612245	9.183673469	16.32653061	7.142857143	7	1	4	1	4
302	1	70.2970297	0.99009901	3.96039604	7.920792079	0	5	1	3	1	0
303	1	55.17241379	1.724137931	5.172413793	6.896551724	1.724137931	5	1	2	1	1
304	1	15.56420233	1.945525292	3.112840467	29.18287938	3.891050584	7	1	5	3	3
305	1	16.11111111	1.666666667	16.66666667	37.77777778	1.666666667	6	1	5	2	3
306	1	33.33333333	3.921568627	3.921568627	17.64705882	5.882352941	4	1	1	3	2
307	2	53.95948435	0	6.813996317	24.86187845	11.23388582	9	0	8	3	4
308	2	12.90983607	2.254098361	10.24590164	53.48360656	4.918032787	4	2	3	4	2
309	1	37.67123288	0	9.589041096	28.76712329	5.479452055	5	0	4	3	2
310	2	56.01577909	9.072978304	4.733727811	28.40236686	0.197238659	8	2	4	3	1
311	2	50.72463768	5.797101449	5.797101449	0	10.14492754	8	1	3	0	1
312	1	87.78256189	8.073196986	1.076426265	1.99138859	0	6	3	4	3	0
313	1	84.84848485	10.38961039	1.948051948	1.298701299	0	5	2	3	2	0
314	2	79.2248062	11.86046512	0.465116279	6.976744186	1.472868217	9	3	2	4	2
315	1	63.89261745	29.39597315	0.134228188	5.503355705	0.939597315	7	3	1	4	2
316	1	21.69890664	70.73170732	2.270815812	2.691337258	0.504625736	7	3	5	3	2
317	2	58.93719807	23.67149758	6.280193237	3.381642512	0.483091787	9	2	3	2	1
318	1	50.4587156	24.7706422	2.752293578	14.67889908	0	8	2	1	1	0
319	2	92.60261615	0.451059991	0.405953992	0.045105999	0.135317997	10	2	1	1	1
320	1	94.77521264	0.243013366	0.486026731	0.243013366	1.70109356	9	1	2	1	1
321	1	61.9047619	0	38.0952381	0	0	2	0	1	0	0
322	1	72.72727273	0	27.27272727	0	0	2	0	1	0	0
323	1	24.44444444	46.66666667	6.666666667	8.888888889	0	3	1	3	2	0
324	1	55.37190083	20.66115702	4.958677686	14.87603306	1.652892562	6	1	3	2	1
325	1	14.51612903	54.83870968	9.677419355	19.35483871	1.612903226	4	1	2	2	1
326	1	10.72796935	70.49808429	1.149425287	16.85823755	0.766283525	5	2	1	2	1
327	2	57.98816568	32.84023669	2.662721893	0.887573964	1.479289941	8	5	4	1	2
328	0	96.33027523	0	1.834862385	0.917431193	0	3	0	2	1	0
329	1	14.0503876	60.46511628	2.228682171	9.69 -02	1.162790698	3	1	4	1	3
330	1	69.73775818	8.493850081	4.64 -02	3.388257136	2.32 -02	6	3	2	2	1
331	2	33.89830508	39.66101695	5.084745763	0.508474576	1.016949153	5	3	4	2	4
332	3	22.36384705	5.677867903	6.836616454	15.17960603	1.042873696	6	2	4	3	2
333	1	5.447470817	63.81322957	0.778210117	3.501945525	0.389105058	5	3	2	2	1
334	3	14.83660131	62.22222222	0.849673203	1.503267974	0.718954248	8	3	5	3	3
335	1	16.24365482	11.6751269	10.15228426	48.98477157	0.253807107	3	3	3	1	1
336	1	94.28571429	0.714285714	1.428571429	3.571428571	0	5	1	2	2	0
337	1	82.38636364	7.386363636	3.409090909	2.840909091	0.568181818	5	2	1	1	1
338	1	94.51795841	0.283553875	0.850661626	1.039697543	0.756143667	6	1	3	4	1
339	1	77.92792793	6.756756757	1.351351351	2.102102102	2.402402402	7	1	3	3	1
340	2	95.01312336	0.918635171	0.262467192	0.656167979	2.099737533	9	1	2	2	2

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BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
341	0	90.5027933	2.234636872	0	0.279329609	5.865921788	7	1	0	1	2
342	1	97.37417943	0.875273523	0.437636761	0.656455142	0.218818381	6	1	2	2	1
343	2	88.97243108	8.521303258	0.501253133	0.501253133	0.250626566	8	2	1	1	1
344	2	79.28039702	11.7866005	1.612903226	0	5.459057072	6	2	4	0	3
345	1	34.26791277	0	16.82242991	19.9376947	15.88785047	7	0	5	4	5
346	1	38.38158872	6.384558278	13.51150705	8.53749072	12.39792131	7	1	4	1	6
347	3	34.5603272	0.408997955	6.339468303	10.0204499	32.31083845	8	1	9	2	3
348	2	50.7674144	1.06257379	8.618654073	16.41086187	8.736717828	7	2	11	3	3
349	2	53.86416862	0.702576112	16.62763466	9.367681499	7.728337237	9	1	8	3	5
350	2	45.83963691	0	13.16187595	17.397882	3.177004539	7	0	8	4	3
351	1	73.42519685	0	4.724409449	1.968503937	0	3	0	5	3	0
352	2	30.13333333	0	8	19.2	1.066666667	4	0	4	4	2
353	1	34.26294821	28.28685259	7.569721116	0.398406375	0	4	1	5	1	0
354	1	39.36170213	42.55319149	4.255319149	0	1.063829787	3	1	2	0	1
355	1	11.62790698	82.55813953	1.162790698	0	1.162790698	4	1	1	0	1
356	1	22.41992883	39.85765125	1.779359431	27.75800712	1.067615658	3	1	3	1	1
357	1	30.625	0.208333333	11.66666667	26.45833333	5.208333333	5	1	7	2	4
358	1	47.58064516	34.27419355	4.435483871	7.661290323	0	5	1	3	2	0
359	1	35.88785047	3.551401869	4.299065421	31.02803738	2.803738318	5	1	5	1	3
360	2	36.41975309	28.08641975	5.864197531	16.97530864	0.617283951	5	1	5	1	1
361	1	36.44444444	6	4	30.44444444	2.666666667	5	1	4	1	2
362	2	38.73056995	0	16.83937824	4.274611399	27.84974093	6	0	8	2	5
363	1	50.42918455	0.214592275	10.94420601	7.510729614	26.18025751	5	1	9	1	6
364	2	41.87327824	0	15.97796143	1.101928375	4.407713499	7	0	4	3	2
365	2	50.86757991	0	29.9543379	6.02739726	5.205479452	4	0	6	2	7
366	1	9.523809524	22.07792208	0.865800866	35.06493506	6.493506494	7	2	2	4	4
367	2	79.53488372	0	4.186046512	4.651162791	3.255813953	7	0	3	3	3
368	1	54.71698113	0	3.773584906	4.716981132	16.98113208	6	0	3	2	2
369	1	61.41055046	19.43807339	0.229357798	18.06192661	5.73 -02	6	4	3	2	1
370	1	62.56157635	0	1.97044335	0	0.492610837	7	0	2	0	1
371	4	73.27272727	6.363636364	0.363636364	0	0.363636364	7	1	2	0	2
372	3	62.78317152	0	4.530744337	1.45631068	0.242718447	8	0	4	3	2
373	2	68.71165644	0	3.374233129	6.441717791	2.45398773	6	0	5	1	3
374	3	51.67475728	0.315533981	0.461165049	2.912621359	4.85 -02	7	1	5	3	1
375	2	35.8662614	0.40526849	2.634245187	51.16514691	3.343465046	6	1	6	2	2
376	1	52.83018868	0.471698113	0.943396226	17.45283019	22.64150943	4	1	2	1	3
377	2	56.07476636	2.803738318	6.542056075	19.1588785	7.009345794	7	1	3	2	2
378	2	46.74329502	2.681992337	7.662835249	11.11111111	14.55938697	5	1	4	2	2
380	3	40.49079755	2.45398773	0.613496933	4.90797546	1.840490798	6	1	1	1	2
381	3	58.91089109	25.57755776	2.640264026	4.290429043	4.455445545	7	3	4	3	2
383	1	64.63414634	5.487804878	11.58536585	7.317073171	7.317073171	6	2	3	4	2
384	2	34.45945946	1.801801802	4.954954955	8.783783784	3.828828829	6	1	3	3	2
385	2	31.1827957	0	7.885304659	49.46236559	1.433691756	5	0	3	2	1
386	1	79.36507937	12.6984127	6.349206349	0	0	5	1	3	0	0
387	1	49.39759036	7.228915663	3.614457831	1.204819277	0	5	1	1	1	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
388	1	16.54135338	0	0	0	0	2	0	0	0	0
389	1	62.72727273	0	37.27272727	0	0	3	0	3	0	0
390	2	58.75	25.9375	3.4375	5.9375	0	5	3	3	6	0
391	1	73.98373984	5.284552846	2.43902439	15.85365854	2.43902439	5	2	2	1	3
392	3	11.45833333	66.66666667	14.58333333	5.208333333	1.041666667	4	1	3	1	1
393	3	81.54859967	0	8.23723229	0.494233937	9.390444811	4	0	6	1	1
394	5	22.25	0.375	3	13.875	59.125	8	1	4	2	5
396	2	94.65240642	0	3.609625668	0.401069519	1.336898396	4	0	3	1	1
397	1	60.67510549	9.620253165	8.44 -02	7.679324895	10.80168776	6	1	1	1	1
398	2	23.58381503	17.91907514	1.271676301	31.67630058	2.658959538	7	1	4	4	1
399	1	65.03416856	29.04328018	4.44191344	1.138952164	0.341685649	6	1	1	1	1
400	1	62.04013378	0	4.180602007	5.351170569	8.862876254	6	0	3	3	2
401	1	68.51211073	0	14.53287197	6.574394464	4.152249135	6	0	3	2	2
402	1	42.42424242	0	5.892255892	2.356902357	1.01010101	7	0	4	4	1
403	1	56.43776824	0	1.072961373	0.643776824	0.214592275	8	0	3	1	1
404	1	34.13461538	0.16025641	1.762820513	15.38461538	0.320512821	4	1	1	3	2
405	1	13.59773371	0	0.849858357	69.12181303	0.283286119	7	0	2	3	1
406	2	18.68131868	0	0.732600733	48.35164835	24.90842491	6	0	2	3	6
407	1	36.65835411	0	1.995012469	26.68329177	3.49127182	7	0	5	3	2
408	3	15.06591337	0.564971751	2.63653484	49.90583804	3.95480226	7	2	5	5	6
409	3	35.26011561	15.89595376	5.780346821	23.98843931	0.867052023	8	2	6	3	1
410	2	32.29166667	0.520833333	4.6875	15.625	7.8125	6	1	7	3	2
411	1	44.17808219	1.369863014	4.794520548	32.53424658	5.136986301	5	1	4	3	4
412	1	94.52495974	0.161030596	1.771336554	1.771336554	0.805152979	5	1	3	1	1
413	1	83.96946565	0	1.145038168	1.908396947	1.526717557	6	0	3	3	4
414	1	17.5879397	11.30653266	2.763819095	20.60301508	2.261306533	7	2	4	2	5
415	1	19.09233177	0.938967136	7.042253521	0.156494523	1.877934272	4	1	5	1	1
416	2	38.85601578	0.788954635	8.08678501	1.183431953	7.692307692	5	2	5	2	1
417	1	40.66985646	9.57 -02	9.57 -02	4.401913876	9.57 -02	7	1	1	3	1
418	1	67.90352505	0.371057514	2.968460111	0.742115028	0	8	2	4	1	0
419	1	40.86956522	1.391304348	2.782608696	3.130434783	1.217391304	4	2	5	4	2
420	1	22.48995984	25.90361446	0	1.204819277	1.004016064	3	2	0	2	2
421	1	51.93423598	40.23210832	0	0.483558994	6.67311412	7	2	0	2	3
422	1	53.307393	32.29571984	10.89494163	0.778210117	0.778210117	5	1	2	1	2
423	3	71.71145686	14.427157	8.628005658	4.243281471	0	7	1	6	2	0
424	4	5.445544554	3.052805281	0.577557756	88.36633663	0.825082508	8	2	4	1	4
425	2	66.69550173	0	2.249134948	25.43252595	2.249134948	5	0	2	3	5
426	4	36.65158371	0.226244344	9.049773756	44.3438914	5.882352941	8	1	7	4	4
427	1	33.97590361	0.481927711	8.674698795	24.57831325	1.204819277	5	1	4	3	2
428	1	27.87286064	10.75794621	8.80195599	13.69193154	19.5599022	6	1	5	2	5
429	1	34.30656934	11.49635036	1.277372263	20.80291971	8.759124088	6	2	2	3	4
431	1	61.76470588	25	2.205882353	2.205882353	4.411764706	5	1	2	2	3
433	2	53.09734513	19.46902655	5.752212389	0.884955752	7.079646018	6	1	5	2	4
434	2	39.125	1.375	0.5625	0.125	10.625	7	2	6	1	3
435	1	25.97402597	0	2.597402597	8.441558442	8.441558442	4	0	2	5	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
436	1	19.66666667	15	1.333333333	3	1.333333333	3	1	2	4	1
437	1	15.78947368	11.57894737	4.210526316	6.315789474	0	1	1	2	1	0
438	2	39.5280236	25.66371681	2.949852507	5.309734513	0.589970501	6	1	5	3	1
439	1	30.39215686	11.76470588	1.960784314	12.74509804	2.941176471	5	1	2	5	1
440	1	7.027027027	55.40540541	0	10	0	5	1	0	3	0
441	1	13.59223301	13.59223301	0.970873786	10.67961165	0	3	1	1	3	0
442	2	43.34203655	31.46214099	0.652741514	0	0.130548303	5	1	2	0	1
443	2	94.83870968	1.935483871	0.483870968	0	0	7	1	1	0	0
444	1	96.80065628	8.20 -02	3.035274815	8.20 -02	0	6	1	4	1	0
445	1	99.54114408	0	0.458855919	0	0	7	0	4	0	0
446	1	28.76712329	0	9.246575342	3.082191781	0.342465753	5	0	2	4	1
447	2	83.91304348	0.434782609	6.956521739	2.608695652	0	6	1	2	2	0
448	3	40.9921671	3.133159269	2.872062663	10.44386423	4.177545692	7	2	1	3	3
450	4	46.72489083	4.366812227	6.113537118	2.183406114	3.493449782	8	2	7	3	3
451	3	45.97249509	14.1453831	2.554027505	1.37524558	8.447937132	6	3	6	2	4
452	4	58.21078431	0.12254902	5.024509804	2.696078431	3.18627451	9	1	8	4	2
453	3	31.44654088	0.209643606	1.677148847	0.419287212	1.048218029	7	1	2	2	3
454	3	30.74712644	0	2.586206897	3.448275862	1.149425287	7	0	4	2	2
455	2	9.162303665	0	1.047120419	4.712041885	1.570680628	6	0	3	3	1
456	1	80.42328042	0	1.587301587	15.87301587	0.529100529	5	0	1	3	1
457	1	54.02298851	3.448275862	3.448275862	4.597701149	4.597701149	5	1	1	1	2
458	1	22.1642764	0.651890482	1.955671447	33.5071708	11.0821382	6	1	3	3	3
459	1	0	0	0	16.66666667	0	0	0	0	1	0
460	1	64.31718062	20.26431718	0	3.083700441	0	5	1	0	1	0
461	2	53.19148936	26.24113475	0	2.127659574	0	5	1	0	2	0
462	2	63.73626374	0	1.098901099	0	4.395604396	5	0	1	0	3
463	2	25.49019608	0	2.941176471	4.901960784	1.960784314	3	0	2	2	1
464	2	72.05387205	0	3.03030303	15.48821549	0.673400673	7	0	5	5	2
465	2	35.10273973	0	0.171232877	22.43150685	1.54109589	5	0	1	2	3
466	2	17.84232365	3.181189488	13.96957123	30.6362379	1.313969571	10	1	8	6	5
467	3	74.34944238	4.460966543	3.066914498	6.226765799	5.762081784	6	2	4	2	6
468	2	44.37299035	0	7.073954984	5.144694534	37.29903537	8	0	4	2	3
469	1	46.49122807	0	5.263157895	0.877192982	0	5	0	2	1	0
470	2	83.33333333	0	3.333333333	1.111111111	0	4	0	2	1	0
471	1	83	0	4	0	2	8	0	3	0	2
472	1	88.12316716	0.146627566	6.451612903	2.492668622	1.612903226	9	1	6	1	3
473	1	93.67875648	0.414507772	3.005181347	1.03626943	0.310880829	8	1	5	2	2
474	1	75.88495575	0	8.628318584	0.110619469	1.10619469	9	0	5	1	2
475	3	68.91025641	0	2.670940171	14.31623932	0.427350427	6	0	4	3	2
476	2	83.07349666	0	4.454342984	4.677060134	0.222717149	6	0	5	5	1
477	2	63.69636964	0.165016502	7.590759076	12.21122112	0.330033003	6	1	3	4	1
478	1	5.555555556	63.88888889	0	2.777777778	5.555555556	1	2	0	1	2
479	3	81.22270742	5.676855895	0.436681223	3.493449782	0.436681223	6	1	1	2	1
480	1	65.64885496	11.83206107	1.908396947	14.50381679	0.381679389	5	1	1	2	1
481	1	57.7540107	16.04278075	1.604278075	24.06417112	0	6	1	3	4	0

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
482	3	68.94736842	4.210526316	2.631578947	3.684210526	6.315789474	4	2	4	2	1
483	3	51.79282869	28.28685259	0.398406375	0.398406375	3.984063745	6	1	1	1	2
484	3	45.16129032	37.6344086	0.716845878	0	2.867383513	6	1	1	0	2
485	3	40.7960199	44.7761194	0.995024876	2.985074627	4.47761194	7	1	1	2	1
486	3	7.167235495	2.730375427	4.778156997	81.05802048	2.559726962	6	2	6	5	3
487	4	7.240948814	1.747815231	2.746566792	81.39825218	2.122347066	6	2	5	4	3
488	2	18.90909091	10.54545455	6.909090909	61.45454545	0.727272727	6	1	4	4	2
489	3	30.03194888	0.319488818	2.236421725	13.73801917	29.71246006	5	1	3	3	8
490	1	25	0	6.25	0	6.25	2	0	1	0	1
491	2	18.51851852	3.703703704	18.51851852	14.81481481	3.703703704	3	1	2	2	1
492	1	16.27906977	0	9.302325581	2.325581395	4.651162791	3	0	2	1	1
493	1	48.52941176	14.11764706	2.647058824	17.35294118	2.941176471	4	1	4	3	3
494	2	56.73352436	12.03438395	0.859598854	1.146131805	25.21489971	5	3	2	4	3
495	2	33.45070423	51.76056338	0.704225352	10.91549296	1.408450704	7	3	1	4	3
496	2	15.50632911	0.632911392	30.06329114	0.949367089	3.164556962	5	1	4	1	3
497	2	10.59782609	1.630434783	1.358695652	62.22826087	5.706521739	7	1	4	3	4
498	1	30.89171975	0	18.78980892	26.11464968	18.15286624	7	0	5	1	3
499	2	17.18213058	9.278350515	35.395189	13.05841924	6.872852234	6	1	5	2	3
500	2	18.79699248	15.41353383	6.015037594	3.383458647	12.40601504	5	1	1	3	3
501	2	24.08026756	10.70234114	3.678929766	10.03344482	23.41137124	5	2	2	3	5
502	3	10.83743842	21.67487685	4.433497537	8.866995074	4.433497537	6	3	3	2	3
503	3	12.5	41.12903226	3.629032258	4.435483871	1.209677419	5	1	3	3	2
504	1	20.75471698	23.01886792	4.528301887	6.037735849	9.811320755	5	2	2	4	5
505	1	21.85430464	12.25165563	1.986754967	14.56953642	0.993377483	4	2	2	2	2
506	1	39.5280236	3.539823009	0.294985251	0.884955752	7.079646018	5	2	1	3	4
507	2	14.81481481	23.7037037	1.111111111	15.92592593	8.888888889	4	2	2	2	4
508	2	20.27027027	14.18918919	2.702702703	1.013513514	12.5	7	2	4	1	2
509	1	13.51351351	9.459459459	4.391891892	12.16216216	4.391891892	3	1	4	4	3
510	2	14.47028424	11.88630491	4.909560724	6.718346253	0.516795866	5	2	4	1	2
511	2	20.28985507	11.5942029	0	6.666666667	14.49275362	7	1	0	3	7
512	1	32.74647887	0	0.352112676	3.169014085	19.01408451	5	0	1	1	4
513	2	7.326007326	32.23443223	3.663003663	0.732600733	0	4	2	3	2	0
514	4	7.348242812	2.875399361	17.8913738	34.18530351	23.64217252	5	1	7	2	3
515	0	17.47572816	0	36.89320388	1.941747573	29.12621359	3	0	4	2	3
516	2	37.75510204	0.235478807	28.96389325	3.296703297	18.99529042	5	1	9	1	4
517	2	32.97491039	17.92114695	3.225806452	13.97849462	10.75268817	8	3	4	3	3
518	2	30	14.73684211	4.473684211	4.473684211	12.36842105	7	4	5	5	4
519	1	39.50177936	36.29893238	5.693950178	11.03202847	5.338078292	5	3	6	3	1
520	1	27.02702703	3.378378378	1.351351351	52.36486486	10.47297297	6	3	1	1	2
521	1	33.66013072	30.71895425	4.248366013	20.58823529	1.633986928	7	3	6	4	2
522	2	32.01219512	14.63414634	12.19512195	25.6097561	2.43902439	6	2	8	2	2
523	2	70.58823529	1.764705882	19.41176471	0	8.235294118	2	1	7	0	1
524	2	43.26530612	32.65306122	1.836734694	5.714285714	0.204081633	6	3	3	2	1
525	2	27.21311475	8.852459016	9.836065574	11.47540984	0.327868852	8	4	5	6	1
526	2	35.09234828	13.98416887	9.762532982	20.84432718	2.638522427	7	2	5	5	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
527	2	20.52980132	28.47682119	3.642384106	17.54966887	9.271523179	7	3	4	3	2
528	2	30.9148265	14.1955836	2.523659306	13.88012618	7.570977918	8	3	2	3	2
529	2	66.87116564	28.52760736	2.45398773	0.306748466	0	5	1	3	1	0
530	1	97.77777778	0	2.222222222	0	0	3	0	1	0	0
531	5	23.14540059	0	7.121661721	46.884273	12.75964392	6	0	6	2	3
532	3	21.66064982	3.610108303	7.581227437	39.71119134	20.57761733	5	1	5	3	3
533	4	77.59197324	0.334448161	9.030100334	7.357859532	1.003344482	4	1	8	2	3
534	2	75.52742616	0	3.797468354	2.953586498	0.843881857	4	0	2	1	1
535	3	68.54460094	0	12.20657277	2.816901408	7.511737089	8	0	5	3	3
536	3	54.11764706	2.941176471	10.58823529	18.82352941	0.588235294	6	1	5	2	1
537	1	71.68674699	5.722891566	8.13253012	3.614457831	0.602409639	4	1	5	2	1
538	4	69.35483871	0.403225806	22.58064516	0.403225806	0	6	1	3	1	0
539	3	83.40080972	0	4.048582996	3.643724696	0	6	0	5	3	0
540	1	29.06976744	9.302325581	11.62790698	47.6744186	0	5	1	2	4	0
541	1	44.73684211	35.85526316	3.618421053	6.907894737	0.986842105	5	1	5	2	2
542	5	31.53846154	1.153846154	23.07692308	3.846153846	35.38461538	5	1	7	3	7
543	5	32.29461756	0.566572238	12.18130312	7.082152975	38.8101983	7	1	10	3	3
544	1	67.73162939	25.55910543	3.833865815	2.236421725	0	5	2	2	1	0
545	1	57.20164609	21.81069959	2.880658436	15.63786008	1.234567901	6	3	3	3	3
546	5	22.87581699	0.326797386	7.516339869	11.11111111	51.30718954	8	1	4	3	1
547	3	20.45454545	1.623376623	8.116883117	16.88311688	10.38961039	5	3	8	2	4
548	1	72.15568862	13.17365269	0.898203593	5.089820359	8.383233533	4	1	2	2	2
549	1	83.06451613	7.258064516	1.451612903	0.161290323	2.419354839	5	2	5	1	3
550	1	84.44607483	2.86133529	4.255319149	0.220102715	7.34 -02	5	2	7	1	1
551	1	55.55555556	40.95441595	0.783475783	7.12 -02	0.213675214	5	3	4	1	2
552	1	47.95660036	36.41952984	1.22965642	5.82278481	0.470162749	5	2	5	2	3
553	1	40.15865146	5.156172533	18.44323252	7.040158651	0.991571641	6	2	7	3	3
554	1	12.27229147	6.951102589	26.22243528	0.431447747	0	5	1	8	1	0
555	1	58.86332882	3.00405954	15.29093369	1.028416779	0.51420839	9	2	6	2	3
556	1	34.24430642	0	28.94409938	19.21325052	8.902691511	6	0	7	5	2
558	2	58.90510949	12.26277372	9.927007299	0.583941606	0.291970803	6	3	6	2	3
559	1	19.39203354	25.57651992	9.958071279	5.24 -02	0.314465409	7	2	5	1	5
560	1	73.66515837	5.248868778	3.83107089	0	6.03 -02	7	1	8	0	1
561	1	35.098781	2.437999159	8.785203867	11.97982346	9.079445145	5	3	8	6	5
562	1	96.0591133	0.492610837	2.955665025	0	0.492610837	3	1	5	0	1
563	4	83.10810811	4.391891892	6.418918919	3.716216216	0.675675676	4	3	7	1	2
564	4	70.33898305	0.423728814	18.6440678	7.627118644	2.542372881	6	1	7	3	3
565	4	80.67484663	0.920245399	14.11042945	2.45398773	1.840490798	4	2	8	2	3
566	1	85.71428571	0	0	14.28571429	0	1	0	0	1	0
567	1	63.63636364	9.090909091	27.27272727	0	0	4	1	3	0	0
568	3	29.57746479	0	9.85915493	22.0657277	21.12676056	5	0	4	3	4
569	3	16.76300578	5.202312139	8.092485549	18.49710983	21.38728324	5	1	3	3	3
570	4	20.20905923	8.710801394	39.72125436	9.756097561	3.832752613	7	3	3	3	3
571	2	10.59602649	50	1.986754967	8.940397351	9.271523179	8	1	5	3	1
572	3	18.09045226	28.64321608	17.08542714	9.547738693	5.527638191	7	1	2	3	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
573	2	28.26086957	16.52173913	5.652173913	28.69565217	10.43478261	7	4	8	2	2
574	3	22.59259259	72.22222222	1.481481481	0.37037037	0.37037037	7	2	3	1	1
575	4	58.8	20.8	1.6	2.8	2	5	4	2	2	2
576	1	80.82706767	6.390977444	2.255639098	0	3.007518797	6	1	4	0	4
577	2	87.74834437	0.662251656	9.271523179	0.662251656	1.655629139	6	1	2	2	1
578	2	78.16091954	16.66666667	0.574712644	2.873563218	0	4	2	1	1	0
579	2	76.76348548	16.18257261	0.829875519	4.149377593	0.414937759	5	2	2	1	1
580	3	26.31578947	28.94736842	23.02631579	12.5	1.315789474	4	2	6	1	1
581	1	79.48717949	12.82051282	0.854700855	3.418803419	3.418803419	4	1	1	1	1
582	3	46.37223975	33.4384858	6.309148265	7.255520505	3.154574132	9	2	6	5	5
583	4	54.17956656	33.74613003	1.547987616	3.095975232	0.619195046	8	2	2	4	1
584	2	24.29906542	5.607476636	11.21495327	0.934579439	0.934579439	6	1	2	1	1
585	3	41.93548387	20.64516129	2.580645161	4.516129032	0.64516129	12	2	4	5	1
586	3	41.796875	23.828125	7.421875	3.90625	0.78125	7	2	5	3	2
587	2	83.5106383	1.595744681	3.191489362	1.595744681	3.723404255	6	1	1	3	4
588	2	37.55868545	26.29107981	1.877934272	7.042253521	1.877934272	4	2	1	3	2
589	2	20.73170732	0	4.87804878	3.658536585	2.43902439	4	0	1	1	2
590	3	38.0952381	0	19.04761905	1.19047619	22.61904762	6	0	2	1	4
591	0	42.85714286	0	28.57142857	14.28571429	14.28571429	1	0	1	1	1
592	0	81.25	0	12.5	6.25	0	3	0	2	1	0
593	4	28.62903226	0	11.29032258	4.032258065	15.72580645	5	0	6	2	4
594	4	28.62903226	0	11.29032258	4.032258065	15.72580645	5	0	6	2	4
595	2	65.94827586	3.448275862	9.482758621	11.63793103	5.603448276	5	2	6	2	2
596	1	41.93548387	3.225806452	9.274193548	44.35483871	1.209677419	4	2	2	2	2
597	2	43.18181818	7.954545455	7.954545455	38.25757576	1.515151515	6	2	4	2	1
598	3	23.03664921	1.047120419	6.806282723	29.84293194	34.03141361	5	1	7	4	3
599	3	8.8	4	20	40.8	20.8	3	3	4	3	4
600	4	31.66666667	24.16666667	12.5	19.16666667	8.75	7	5	6	4	3
601	2	44.44444444	11.11111111	44.44444444	0	0	2	1	2	0	0
602	3	24.48979592	55.51020408	4.897959184	4.897959184	8.163265306	6	5	2	2	5
603	3	33.67346939	0	21.42857143	34.69387755	9.693877551	4	0	7	2	1
604	2	50.8	0	2	44.4	2.4	4	0	4	1	5
605	1	17.01244813	14.10788382	10.37344398	42.73858921	6.22406639	3	1	4	2	4
606	1	52	4	12	12	16	3	1	2	2	1
607	3	47.36842105	0	17.29323308	17.29323308	12.03007519	6	0	5	3	3
608	2	77.48091603	0	9.160305344	0.381679389	11.45038168	6	0	5	1	5
609	1	39.59731544	25.16778523	2.348993289	13.42281879	14.76510067	6	2	4	4	6
610	3	78.1512605	0	8.823529412	4.201680672	5.042016807	9	0	6	2	5
611	2	63.13364055	0.460829493	2.304147465	0.460829493	28.11059908	7	1	4	1	4
612	3	39.18918919	0.900900901	4.054054054	24.77477477	9.459459459	5	1	4	2	3
613	2	16.4556962	3.375527426	1.265822785	56.54008439	7.172995781	5	1	2	3	5
614	2	36.01694915	0	10.16949153	22.88135593	17.79661017	8	0	5	1	6
615	3	37.32718894	14.28571429	3.225806452	26.7281106	1.382488479	7	2	4	2	1
616	2	13.82716049	0	3.703703704	39.25925926	12.09876543	6	0	6	1	4
617	2	25.65789474	7.894736842	1.644736842	8.881578947	1.315789474	3	3	2	3	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
618	2	68.98395722	13.63636364	1.069518717	2.406417112	1.871657754	5	2	2	1	2
619	4	39.32038835	0.485436893	12.13592233	26.69902913	6.796116505	5	1	7	3	7
620	1	22.24719101	16.85393258	0.674157303	17.75280899	36.62921348	6	1	2	5	2
621	3	30.89430894	4.06504065	0.81300813	46.74796748	4.06504065	5	1	2	4	6
622	1	2.205882353	1.470588235	5.147058824	80.14705882	8.823529412	3	1	4	4	3
623	1	51.02040816	0	1.530612245	25	18.87755102	6	0	3	3	2
624	2	74.43946188	1.34529148	4.484304933	5.829596413	6.278026906	3	2	4	1	6
625	2	33.84615385	4.615384615	12.82051282	32.30769231	3.58974359	4	1	4	2	3
626	1	70.37037037	1.851851852	4.074074074	11.85185185	9.259259259	6	2	6	4	2
627	2	26.9035533	1.52284264	17.76649746	34.5177665	13.19796954	4	2	6	2	3
628	1	20.40816327	2.040816327	23.80952381	29.93197279	18.36734694	5	1	4	2	1
629	1	33.33333333	16.66666667	16.66666667	16.66666667	0	2	1	1	1	0
630	1	37.5	13.75	20	10	13.75	4	2	3	1	1
631	1	13.04347826	47.82608696	26.08695652	0	13.04347826	3	4	2	0	3
632	4	43.85964912	15.0877193	15.43859649	2.456140351	11.92982456	4	4	4	3	4
633	3	41.66666667	25	6.481481481	2.777777778	12.03703704	6	5	3	2	5
634	2	35.48387097	6.451612903	9.677419355	9.677419355	16.12903226	3	2	3	2	2
635	3	25	6.818181818	9.090909091	12.5	23.86363636	4	3	2	2	4
636	3	29.93630573	10.1910828	8.917197452	28.02547771	15.2866242	4	3	2	2	3
637	2	38.57142857	0	6.666666667	20	9.523809524	7	0	4	1	3
638	3	70.74774035	9.778142975	3.77978636	0.328677075	1.068200493	6	4	5	1	5
639	2	60.92307692	12	1.538461538	1.538461538	15.38461538	6	3	2	1	3
640	1	7.56302521	2.521008403	11.76470588	6.722689076	24.78991597	4	3	9	2	4
641	1	91.19496855	2.830188679	2.830188679	0.943396226	1.886792453	9	2	4	2	4
642	3	22.56809339	38.52140078	5.447470817	7.782101167	3.501945525	8	2	2	3	5
643	2	17.70186335	46.27329193	4.968944099	15.52795031	0	6	2	5	7	0
644	5	23.07692308	0.641025641	7.692307692	16.02564103	21.36752137	6	2	4	1	5
645	3	37.08791209	0.549450549	8.791208791	9.340659341	21.7032967	8	1	4	4	4
646	4	31.83673469	0	13.06122449	19.18367347	22.44897959	7	0	3	1	3
647	3	45.24886878	7.692307692	14.47963801	28.50678733	1.357466063	6	2	4	2	3
648	4	22.68907563	10.08403361	7.56302521	12.18487395	6.302521008	5	4	6	4	3
649	2	33.89830508	15.93220339	5.423728814	39.66101695	0.677966102	6	2	6	3	1
650	2	35.33568905	35.33568905	6.713780919	1.060070671	0.706713781	11	2	4	2	2
651	2	77.62237762	6.293706294	7.342657343	1.398601399	1.048951049	10	1	3	2	3
652	3	39.14027149	46.60633484	1.357466063	3.167420814	1.809954751	7	2	2	4	3
653	4	31.67420814	2.714932127	9.502262443	2.714932127	0.452488688	5	1	7	2	1
654	1	10.38135593	3.654661017	0.31779661	7.150423729	1.218220339	5	2	2	3	3
655	2	17.00680272	3.06122449	5.102040816	11.56462585	0	8	1	5	2	0
656	2	20.73459716	34.12322275	3.08056872	9.360189573	7.701421801	8	3	3	4	6
657	2	24.303233	18.84057971	3.232998885	46.37681159	1.003344482	7	3	2	3	3
658	1	23.54740061	44.18960245	0	11.00917431	6.727828746	6	1	0	2	3
659	2	13.7037037	2.962962963	5.555555556	7.777777778	44.07407407	5	1	4	1	1
660	2	12.2923588	2.657807309	14.6179402	21.59468439	2.325581395	6	1	4	2	2
661	2	21.42857143	2.795031056	7.453416149	5.590062112	1.242236025	4	1	3	1	2
662	3	24.91803279	34.75409836	0.327868852	1.967213115	0.327868852	7	2	1	3	1

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
663	3	23.10606061	9.46969697	1.515151515	28.78787879	6.818181818	6	2	4	2	5
664	2	26.58730159	0	11.9047619	12.3015873	5.555555556	7	0	7	3	3
665	2	49.62121212	19.6969697	2.272727273	1.893939394	7.575757576	7	3	2	4	3
666	1	6.486486486	2.162162162	47.56756757	17.83783784	7.027027027	6	2	8	2	6
667	2	36.56716418	0.746268657	10.82089552	10.07462687	5.223880597	6	1	8	1	2
668	0	38.13559322	0	27.96610169	11.86440678	5.93220339	3	0	4	1	3
669	1	5.263157895	0	19.29824561	31.57894737	14.03508772	1	0	6	1	1
670	3	48.52941176	0	6.862745098	11.76470588	19.11764706	5	0	6	2	6
671	2	43.5	0.5	4	24	13	3	1	7	1	6
672	4	28.43137255	2.941176471	1.960784314	50.98039216	1.960784314	5	2	2	4	2
673	2	26.89873418	1.265822785	2.215189873	52.84810127	2.848101266	5	1	6	4	2
674	3	43.01675978	1.117318436	2.234636872	38.54748603	2.234636872	6	1	4	5	1
675	2	36.89839572	23.52941176	18.18181818	18.71657754	1.069518717	6	1	6	3	2
676	3	51.2195122	1.742160279	10.80139373	15.67944251	9.059233449	5	1	6	3	2
677	1	9.956709957	0.432900433	10.38961039	32.03463203	2.164502165	6	1	6	3	4
678	2	19.15367483	76.61469933	0	1.113585746	2.004454343	7	4	0	1	3
679	2	11.61825726	1.659751037	5.394190871	1.244813278	34.02489627	5	2	6	1	2
680	1	21.83098592	15.49295775	2.112676056	56.69014085	1.408450704	5	1	4	1	2
681	3	51.77304965	20.21276596	2.836879433	15.24822695	1.418439716	8	2	3	3	2
682	3	20.08368201	17.57322176	3.347280335	20.92050209	17.57322176	6	1	6	2	3
683	2	53.11355311	38.0952381	2.197802198	0.366300366	1.098901099	5	2	1	1	3
684	1	23.05084746	39.3220339	0.677966102	7.118644068	7.796610169	4	3	1	1	3
685	1	28.45849802	40.31620553	0	7.509881423	9.881422925	6	3	0	2	3
686	1	15.61181435	8.016877637	1.687763713	45.56962025	6.329113924	6	2	2	2	1
687	3	12.35521236	10.81081081	2.316602317	37.45173745	20.46332046	6	1	5	2	1
688	3	34	35	2	4.333333333	5.333333333	5	4	5	2	4
689	2	26.43171806	15.85903084	5.286343612	13.65638767	10.13215859	6	1	5	3	2
690	1	62.90322581	29.43548387	2.419354839	2.016129032	2.419354839	6	2	3	2	1
691	1	73.1629393	18.53035144	2.875399361	2.236421725	2.555910543	7	2	4	2	2
692	0	0	33.33333333	16.66666667	0	50	0	2	1	0	2
693	0	66.66666667	1.587301587	1.587301587	15.87301587	14.28571429	2	1	1	2	2
694	1	36.36363636	0	18.18181818	18.18181818	27.27272727	2	0	2	2	2
695	2	41.21976866	0	7.570977918	37.22397476	9.043112513	6	0	7	3	7
696	3	28.87029289	0	7.531380753	40.16736402	15.06276151	7	0	5	2	3
697	3	37.37373737	12.12121212	13.13131313	26.5993266	2.356902357	6	3	5	3	3
698	5	62.02090592	3.832752613	11.49825784	9.756097561	10.45296167	9	4	5	3	3
699	3	18.4	37.12	12.8	22.08	6.4	10	4	7	4	8
700	3	62.58992806	5.035971223	6.474820144	16.18705036	3.597122302	6	4	6	3	2
701	2	57.32758621	25.86206897	7.327586207	1.724137931	0.862068966	4	3	3	3	2
702	2	53.93939394	29.09090909	4.848484848	2.424242424	2.424242424	6	3	3	4	3
703	2	59.18367347	25.85034014	4.081632653	1.360544218	0.680272109	8	3	3	1	1
704	6	81.15942029	0	10.14492754	0.966183575	5.314009662	8	0	6	1	2
705	3	87.63636364	0.727272727	10.18181818	0	0.727272727	4	1	7	0	2
706	2	6.153846154	8.205128205	0.512820513	60	5.128205128	3	2	1	3	2
707	3	61.003861	0	2.702702703	16.6023166	15.05791506	5	0	5	2	8

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
708	2	47.3015873	0.952380952	3.174603175	21.58730159	20.31746032	6	1	5	4	8
709	2	44.03292181	6.58436214	3.703703704	36.6255144	3.703703704	5	3	3	5	3
710	3	35.13931889	7.585139319	2.167182663	32.19814241	15.17027864	6	3	6	6	4
713	3	70.07168459	3.225806452	1.254480287	4.480286738	18.63799283	9	2	3	5	7
716	3	30.11363636	11.36363636	5.681818182	19.31818182	27.84090909	7	2	2	4	2
717	1	82.25108225	0	3.03030303	5.627705628	3.463203463	4	0	6	3	6
718	2	63.98963731	0.518134715	0.777202073	9.844559585	16.32124352	5	1	3	3	3
719	4	33.13840156	26.31578947	1.949317739	12.86549708	16.95906433	11	4	3	4	3
720	4	44.10646388	19.39163498	1.520912548	15.58935361	15.96958175	9	4	3	2	2
723	2	58.90410959	8.904109589	1.712328767	17.46575342	7.876712329	11	3	3	2	1
724	3	63.60153257	2.298850575	15.3256705	4.980842912	11.11111111	6	3	9	4	7
725	3	27.11518858	38.63404689	3.363914373	8.460754332	12.7420999	11	4	6	6	5
728	3	20.27972028	14.33566434	10.48951049	17.83216783	24.12587413	10	2	7	4	5
729	2	33.87755102	0.408163265	20.81632653	4.897959184	39.59183673	7	1	7	4	6
730	2	20.54263566	9.302325581	16.66666667	12.79069767	18.99224806	7	2	7	3	7
731	2	51.08877722	11.39028476	29.48073702	0.335008375	0.837520938	10	1	4	1	3
732	1	72.72727273	3.463203463	17.74891775	0.432900433	2.164502165	8	1	5	1	2
733	1	62.67281106	8.294930876	13.82488479	5.529953917	6.451612903	7	1	4	2	3
734	1	59.00900901	6.756756757	28.37837838	0	2.252252252	8	2	4	0	3
735	2	53.33333333	33.20512821	2.051282051	0.128205128	1.538461538	4	4	4	1	3
736	4	62.92775665	18.25095057	9.37896071	3.422053232	1.267427123	6	3	8	1	3
737	3	76.98113208	1.509433962	8.679245283	12.45283019	0.377358491	6	1	4	3	1
738	0	91.61793372	0	1.072124756	4.873294347	2.436647173	8	0	2	3	1
739	2	62.64367816	22.98850575	3.879310345	2.729885057	1.293103448	7	3	6	3	1
740	1	12.90322581	17.74193548	1.612903226	42.74193548	4.032258065	4	3	2	5	3
741	0	34.76821192	50.33112583	11.03752759	0.220750552	2.869757174	5	2	3	1	3
742	2	48.62385321	36.69724771	1.834862385	2.752293578	7.339449541	5	3	2	2	1
743	2	68.6857761	0	3.407247161	9.518658734	2.433747972	6	0	5	2	3
744	3	58.28877005	28.60962567	9.625668449	1.336898396	0.802139037	6	3	4	3	1
745	2	51.11111111	27.77777778	9.444444444	10	1.666666667	3	1	5	4	1
746	1	75	16.66666667	8.333333333	0	0	3	2	1	0	0
747	1	62.5	18.75	0	12.5	0	4	2	0	2	0
748	0	0	0	0	0	0	0	0	0	0	0
749	1	56.57894737	9.868421053	0	0	33.55263158	4	1	0	0	1
750	3	30.14354067	57.41626794	11.96172249	0.4784689	0	4	1	5	1	0
751	1	23.0964467	48.98477157	4.822335025	3.299492386	0.507614213	7	4	2	2	2
752	0	99.77186312	0	0.152091255	0	0	3	0	2	0	0
753	1	45.66929134	2.362204724	0.787401575	4.724409449	7.086614173	2	1	1	1	2
754	2	76.01156069	0	0.578034682	3.179190751	0	4	0	2	1	0
755	1	84.53038674	11.04972376	4.419889503	0	0	5	3	2	0	0
756	1	49.21816828	7.8183172	2.308265078	9.084139985	6.329113924	6	1	6	3	2
757	1	38.04173355	3.852327448	0.802568218	0.642054575	0.321027287	6	2	2	1	1
758	2	79.6803653	11.47260274	0.627853881	4.337899543	3.767123288	6	3	5	2	3
759	2	68.33333333	0	25	3.333333333	0	5	0	4	1	0
760	2	11.6145501	44.73516273	1.467772814	40.97000638	0.446713465	6	4	2	1	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
761	1	5.752508361	88.69565217	1.337792642	1.137123746	0.133779264	5	4	3	3	1
762	2	73.8292011	14.60055096	7.438016529	1.377410468	0	6	3	3	3	0
763	3	64.14373089	20.03058104	2.064220183	1.605504587	0.229357798	7	4	4	2	2
764	2	28.05921053	68.71710526	1.644736842	0.921052632	0.625	8	1	3	4	2
765	1	34.30656934	11.49635036	1.277372263	20.80291971	8.759124088	6	2	2	3	4
766	4	80.58727569	9.787928222	3.425774878	1.63132137	2.854812398	9	2	9	2	4
767	1	3.387470998	0.185614849	1.438515081	0.371229698	9.28 -02	4	1	2	1	1
768	1	41.37931034	22.4137931	6.034482759	8.448275862	4.655172414	5	4	3	6	3
769	2	32.21957041	0	15.99045346	6.682577566	5.966587112	5	0	7	3	5
770	1	45.05494505	0.549450549	10.43956044	3.296703297	2.747252747	7	1	6	2	3
771	2	59.78428351	17.71956857	2.003081664	0	3.235747304	6	1	3	0	3
772	4	31.03448276	60.91954023	2.298850575	0	4.597701149	7	2	2	0	1
773	2	73.7613603	23.62943418	1.436528877	0.527704485	0.469070654	5	3	4	1	2
774	0	0	0	0	0	0	0	0	0	0	0
775	1	92.85714286	0	2.857142857	1.428571429	2.857142857	5	0	2	1	1
776	2	41.66666667	0	3.009259259	23.37962963	3.472222222	6	0	5	4	7
777	1	59.21052632	26.31578947	13.15789474	1.315789474	0	4	1	1	1	0
778	1	15.40130152	29.71800434	3.687635575	43.1670282	6.724511931	5	4	4	4	3
779	1	13.95348837	0	17.44186047	44.18604651	24.41860465	4	0	4	2	2
780	1	21.875	0	2.34375	61.5234375	12.890625	8	0	6	2	3
781	2	57.04697987	0	9.843400447	16.77852349	4.921700224	7	0	2	3	4
782	2	62.74509804	0	3.921568627	3.921568627	0	5	0	1	2	0
783	3	56.73758865	0	43.26241135	0	0	4	0	4	0	0
784	3	84.01162791	0	14.8255814	0	0	3	0	5	0	0
785	1	52.8125	42.5	1.5625	1.5625	1.5625	4	1	2	1	1
786	0	77.15736041	0	22.84263959	0	0	3	0	3	0	0
787	0	0	0	0	20	40	0	0	0	1	1
788	1	49.12442396	9.22 -02	2.304147465	4.516129032	9.22 -02	4	1	4	4	1
789	2	94.22998781	0	5.77001219	0	0	6	0	8	0	0
790	2	39.01437372	48.66529774	5.544147844	1.232032854	5.338809035	6	1	6	3	2
791	4	55.39305302	14.99085923	13.52833638	2.559414991	13.16270567	5	4	7	1	3
792	3	20.56737589	34.04255319	5.673758865	18.08510638	8.865248227	9	3	3	3	3
793	2	21.84466019	6.310679612	1.941747573	55.82524272	1.941747573	4	2	3	3	2
794	2	59.53978907	0.767018217	5.27325024	13.51869607	5.656759348	10	1	5	5	5
795	1	82.75862069	8.620689655	3.448275862	0	0	4	1	1	0	0
796	3	48.97959184	4.081632653	9.183673469	8.163265306	0	9	1	5	1	0
797	2	44.89795918	0	20.40816327	10.20408163	0	4	0	4	1	0
798	1	21.93548387	23.22580645	16.77419355	4.516129032	2.580645161	2	2	5	2	4
799	2	74.03508772	0	7.01754386	2.456140351	2.807017544	4	0	4	1	1
800	0	0	0	0	81.69934641	0	0	0	0	1	0
801	2	32.63157895	37.36842105	1.052631579	2.105263158	2.105263158	5	4	2	1	2
802	2	95.16129032	0.806451613	0.806451613	0	0	4	1	1	0	0
807	4	33.6996337	29.85347985	5.677655678	5.494505495	5.311355311	8	1	3	1	2
812	2	16.24713959	11.67048055	3.432494279	50.80091533	17.84897025	5	2	6	2	2
813	3	89	0.333333333	4.333333333	0.333333333	5.333333333	3	1	3	1	2

Appendix G: etric alues of New exico Stream Samples

BenSampID	SwmmrTax	CllctPct	FiltrPct	PredPct	ScrapPct	ShredPct	CllctTax	FiltrTax	PredTax	ScrapTax	ShredTax
814	3	73.27586207	12.5	13.36206897	0.431034483	0.431034483	3	2	11	1	1
815	3	38.71527778	27.08333333	8.680555556	14.75694444	10.76388889	4	3	10	2	3
816	0	0	0	0	0	0	0	0	0	0	0
817	2	51.36363636	0	10	1.818181818	36.81818182	5	0	9	1	2
818	2	95.16129032	0.806451613	0.806451613	0	0	4	1	1	0	0

Appendix H - Metric Standardization

Metrics which were selected for inclusion in the indices were converted to standardized scores prior to index aggregation using the formulas in Table H-1 based on the direction of the metric's response to stress. Percentile distributions of each metric's values were determined for the entire set of data (n = 767 benthic samples). Standardized score conversions use the 95th or 5th percentile, shown along with the mean, median, maximum, and minimum values in Table H-2. The selected standardized metric scores were then averaged to provide indices with values ranging from 0 to 100.

Table H-1. Metric standardization formulas for New Mexico.

Metric Response to Stress	Formula
Decrease with Stress	if $X > X_{95}$, score = 100 if $X \leq X_{95}$, score = $100 \times X/X_{95}$
Increase with Stress Baetis to Ephemeroptera % and Tolerant %, both with $X_{05} = 0$	if X =0, score = 100 if X > 0, score = 100 - X
Increase with Stress Diptera % HBI	if $X < X_{05}$, score = 100 score = $100 \times (100\text{-}X)/(100\text{-} X_{05})$ score = $100 \times (10\text{-}X)/(10\text{-} X_{05})$

X_{95} and X_{05} for each metric are listed in Table H-2.

For Example:

For Shannon DI $_{log2}$ (X) = 2.0 which is less than the 95th percentile for Shannon DI $_{log2}$, one would use the second formula in the table above, giving
Standardized score = 100 × 2.0/3.89 = 100 × .51 = 51;
For Shannon DI $_{log2}$ (X) = 3.0,
Standardized score = 100 × 3.0/3.89 = 77;
For Baetis to Ephemeroptera % (X) = 65, using the fourth formula,
Standardized score = 100 – 65 = 35;
For Baetis to Ephemeroptera % (X) = 25,
Standardized score = 100 – 25 = 65;
For Diptera % (X) = 48, using the sixth formula,
Standardized score =100 × (100-49)/(100-2.58) = 52;
For Diptera % (X) = 18,
Standardized score =100 × (100-18)/(100-2.58) = 84;
For HBI (X) = 5, using the seventh formula,
Standardized score = 100 × (10-5)/(10-2.14) = 64; and
For HBI (X) = 3,
Standardized score = 100 × (10-3)/(10-2.14) =89.

Table H-2. Metric mean, median, minimum, maximum and 5 and 95 percentile values for all 767 New Mexico samples.

Metric	Expected Direction	Mean	Median	Standard Deviation	Minimum	Maximum	Percentiles	
							5	95
Shannon DI $_{log2}$	↓	2.90	2.99	0.71	0.5	4.3	1.60	3.89
Diptera %	↑	22.51	17.04	19.48	0.0	99.7	2.58	65.15
Ephemeroptera %	↓	29.97	26.10	19.92	0.0	93.6	1.55	66.63
Plecoptera %	↓	6.48	2.56	9.73	0.0	66.7	0.00	26.67
Evenness	↓	0.36	0.36	0.11	0.0	1.0	0.19	0.50
EPT Sensitive %	↓	41.73	41.08	22.20	0.0	94.6	5.87	78.46
Clinger %	↓	50.72	52.63	22.48	0.0	99.0	11.37	86.17
Clinger Taxa	↓	9.86	10.00	4.52	0.0	22.0	2.00	17.00
Sprawler %	↓	8.17	4.22	10.624	0.0	67.3	0.00	31.68
Swimmer %	↓	15.41	10.68	15.71	0.0	93.6	0.43	47.31
Sprawler Taxa	↓	2.55	2.00	1.66	0.0	10.0	0.00	6.00
Swimmer Taxa	↓	1.93	2.00	1.02	0.0	6.0	1.00	4.00
Diptera Taxa	↓	4.23	4.00	1.94	0.0	10.0	1.00	8.00
Ephemeroptera Taxa	↓	4.12	4.00	1.88	0.0	11.0	1.00	7.00
Plecoptera Taxa	↓	2.409	2.00	2.34	0.0	10.0	0.00	7.00
Trichoptera Taxa	↓	4.33	4.00	2.29	0.0	11.0	1.00	8.00
Total Taxa	↓	19.73	20.00	6.82	2.0	39.0	8.00	31.00
HBI	↑	4.32	4.31	1.33	0.2	8.0	2.14	6.60
Baet2EphPct	↑	42.60	36.63	32.59	0.0	100.0	0.00	100.00
Hyd2EPTPct	↑	17.64	9.47	20.86	0.0	99.2	0.00	64.20
Intolerant %	↓	21.95	17.67	18.60	0.0	90.7	0.00	57.17
Tolerant %	↑	17.68	12.26	17.10	0.0	97.6	1.18	53.76
Intolerant Taxa	↓	5.98	5.00	4.012	0.0	19.0	0.00	13.00
Scraper %	↓	11.00	5.18	14.39	0.0	88.4	0.00	43.78
Shredder %	↓	7.28	3.18	10.05	0.0	59.9	0.00	29.425
Scraper Taxa	↓						0.00	4.00
Shredder Taxa	↓	2.420	2.00	1.74	0.0	8.0	0.00	6.00

NOTES: Clinger Taxa values were inadvertently missing in the April 2006 version. It was added 07/19/19.

Appendix I: etric Discrimination Efficiencies

August 15 - November 15

ETRIC	5%tile	n		S				HS 1		S		9		24		HS	1		
stdshan2	72.6503	36	73.47	6	66.67	19	79.17	11	68.75	51.99	3	33.33	72.935	19	79.17	74.372	11	68.75	75.76
stdeptsn	36.3412	25	51.02	5	55.56	12		8	50.00	14.959	4	44.44	32.711	12	50.00	47.798	11	68.75	51.52
stdclngp	52.0752																		0.00
stdsprwp	3.3741					9	37.50						20.813	17	70.83				27.27
stdsprwt	33.3333	31	63.27	5	55.56	18	75.00	8	50.00	16.667	2	22.22	16.667	11	45.83	50	13	81.25	69.70
stdswmrt	50							13	81.25							50	13	81.25	0.00
stddipp2	76.1285																		0.00
stdepht	57.1429	39	79.59	8	88.89	20	83.33	11	68.75	35.714	2	22.22	57.143	20	83.33	71.429	14	87.50	84.85
stdplect	14.2857	30	61.22	6	66.67	20	83.33	4	25.00	7.1429	4	44.44	0	17	70.83	42.857	11	68.75	78.79
stdtrit	62.5	35	71.43	7	77.78	19	79.17	10	62.50	31.25	5	55.56	50	18	75.00	62.5	10	62.50	78.79
stdtott	64.5161	36	73.47	6	66.67	21	87.50	9	56.25	41.936	3	33.33	58.065	17	70.83	67.742	9	56.25	81.82
stdeven	63.1927	25	51.02	6	66.67	13	54.17	10	62.50	56.461	4	44.44	77.56	20	83.33	63.701	10	62.50	57.58
stdscrap	9.1028	37	75.51	7	77.78	19	79.17	11	68.75	12.25	8	88.89	2.0215	9	37.50	9.8247	11	68.75	78.79
stdshrdp	4.5874					14	58.33	8	50.00	3.0162	4	44.44	6.8541	14	58.33	4.3866	8	50.00	42.42
stdshrdt	33.3333	30	61.22	5	55.56	18	75.00	7	43.75	16.667	4	44.44	50	24		33.333	7	43.75	69.70
stdintlt	46.1538	39	79.59	6	66.67	20	83.33	10	62.50	26.923	4	44.44	30.769	19	79.17	61.539	13	81.25	78.79
stdH I	67.132	27	55.10	6	66.67	13	54.17	8	50.00	61.753	3	33.33	59.148	10	41.67	73.318	10	62.50	57.58
stdb2ep	49.5656					19	79.17						36.364	16	66.67				57.58
stdtolp	75.9211																		0.00
stdswmrp	8.2814						0.9167						13.7	22	91.67				0.00
stdhyd2ep	70.7018	26	53.06	4	44.44	15	62.50	7	43.75	63.465	3	33.33	51.032	5	20.83	86.878	10	62.50	57.58
stddipt	37.5																		0.00
stdephemp	18.0608																		0.00
stdshredp	4.5874	26	53.06	4	44.44	14	58.33	8	50.00	3.0162	3	33.33	6.8541	14	58.33	4.3866	8	50.00	54.55
stdintolp	19.2376	35	71.43	3	33.33	19	79.17	9	56.25	6.5471	3	33.33	5.65	12	50.00	39.232	11	68.75	66.67
stdplecop	2.3292	33	67.35	6	66.67	18	75.00	7	43.75	0.8007	3	33.33	0	17	70.83	15.577	10	62.50	72.73
stdscrapt	50	38	77.55	8	88.89	19	79.17	11	68.75	25	6	66.67	25	11	45.83	50	11	68.75	81.82
																			0.00
T ct	57.937																		0.00
astr ct	0																		0.00
g	3.149	39	79.59	6	66.67	21	87.50	11	68.75	2.125	3	33.33	2.967	21	87.50	3.414	13	81.25	81.82
TnH ct	37.089	24	48.98	6	66.67	10	41.67	8	50.00	25.617	6	66.67	29.234	4	16.67	47.619	9	56.25	48.48
NonIn ct	0																		0.00
don ct	0			6	66.67	17	70.83	12	75.00				0.654	19	79.17				69.70
ligo ct	0																		0.00
Trich ct	20.019			5	55.56					13.036	5	55.56							15.15
mph ct	0																		0.00
ival ct	0																		0.00
Chiro ct	3.014																		0.00
Coleo ct	3.231	30	61.22	7	77.78	14	58.33	9	56.25	4.887	8	88.89	4.867	14	58.33	3.179	9	56.25	63.64
TolerTa	3	29	59.18	5	55.56	15	62.50	9	56.25	2.5	5	55.56	4	7	29.17	3	9	56.25	60.61
om01 ct	73.7036	16	32.65			7	29.17	6	37.50	49.492	3	33.33	30.769	17	70.83	35.73	6	37.50	21.21
Hyd2Tri ct		26	53.06	2	22.22														6.06
eck I	14	38	77.55	5	55.56	23	95.83	10	62.50	9	4	44.44	11	20		18	13	81.25	84.85
	0.109			9		24		15	93.75	0.297	3	33.33	0.177	18	75.00	0.207	7	43.75	
ChiroTa	1																		0.00
ColeoTa	1					11	45.83						2	20	83.33				33.33
TTa	12	40	81.63	7	77.78	22	91.67	11	68.75	7	4	44.44	9	18	75.00	13	12	75.00	87.88
rrwr ct	5.644																		0.00
Clmbr ct	0	24	48.98	3	33.33	11	45.83	8	50.00	0	3	33.33	0.637	15	62.50	0	8	50.00	42.42
rrwrTa	2																		0.00
ClngrTa	11	39	79.59	7	77.78	21	87.50	11	68.75	7.5	4	44.44	9	16	66.67	11	11	68.75	84.85
Cllct ct	19.721																		0.00
Filtr ct	0.313	39	79.59	5	55.56	5	20.83	2	12.50	0	5	55.56	11.39	12	50.00	0.434	3	18.75	30.30
red ct	2.691	34	69.39	6	66.67	21	87.50	5	31.25	1.146	3	33.33	1.292	15	62.50	4.224	8	50.00	81.82
CllctTa	5			4	44.44	10	41.67	9	56.25	4.5	1	11.11	5	10	41.67	5	9	56.25	42.42
FiltrTa	1																		0.00
redTa	3	29	59.18	2	22.22	20	83.33	7	43.75	1	2	22.22	2	17	70.83	4	8	50.00	66.67

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Appendix J: Correlation among Metrics

Table J: Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

Pearson Correlation Coefficients	han I_{log2}	Coleopt	iptera	phem	T	lecop	urrow	Clinger	prawler
hannon I_{log2}	1								
Coleoptera	0.16	1							
iptera	-0.35	-0.13	1						
phemeroptera	0.03	-0.28	-0.34	1					
T	0.24	-0.37	-0.79	0.50	1				
lecoptera	0.21	-0.04	-0.19	-0.14	0.23	1			
urrower	-0.27	-0.10	0. 0	-0.34	-0.69	-0.14	1		
Clinger	0.16	0.01	-0.41	-0.06	0.45	0.00	-0.55	1	
prawler	0.18	-0.09	-0.18	0.08	0.17	0.48	-0.10	-0.26	1
wimmer	-0.18	-0.19	-0.06	0.57	0.19	-0.18	-0.18	-0.37	-0.14
Clinger Ta a	0.71	0.28	-0.25	-0.05	0.19	0.06	-0.19	0.32	-0.03
prawler Ta a	0.46	0.10	-0.06	-0.10	0.06	0.26	0.02	0.00	0.25
wimmer Ta a	0.36	0.17	-0.13	0.00	0.08	0.09	-0.14	-0.03	0.11
Coleoptera Ta a	0.34	0.39	-0.13	-0.11	-0.05	-0.01	-0.15	0.11	-0.01
iptera Ta a	0.45	0.19	0.09	-0.18	-0.09	0.07	0.08	-0.01	-0.01
phemeroptera Ta a	0.61	0.11	-0.23	0.17	0.25	0.04	-0.15	0.17	0.06
T Ta a	0.74	0.22	-0.26	-0.05	0.25	0.21	-0.18	0.25	0.06
lecoptera Ta a	0.52	0.19	-0.16	-0.13	0.15	0.43	-0.09	0.15	0.08
Trichoptera Ta a	0.61	0.20	-0.25	-0.12	0.19	-0.02	-0.18	0.27	0.01
Total Ta a	0.75	0.30	-0.20	-0.14	0.09	0.09	-0.12	0.17	0.08
eck I	0.70	0.24	-0.21	-0.09	0.19	0.26	-0.14	0.21	0.05
H I	-0.40	-0.06	0.65	-0.26	-0.68	-0.45	0.65	-0.51	-0.14
aetis to phemeroptera	-0.25	-0.06	0.18	0.01	-0.15	-0.20	0.04	-0.27	-0.22

Appendix J: Correlation among Metrics

Table J (con't.):	Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.								
Pearson Correlation Coefficients	han $I_{log\,2}$	Coleopt	iptera	phem	T	lecop	urrow	Clinger	prawler
ominant 1	-0. 0	-0.06	0.29	-0.08	-0.22	-0.19	0.24	-0.11	-0.18
Hydropsychidae to T	-0.07	-0.07	-0.16	-0.17	0.15	-0.27	-0.15	0.32	-0.16
Intolerant	0.31	-0.07	-0.35	0.12	0.44	0.56	-0.28	0.28	0.24
Tolerant	-0.29	-0.12	0.76	-0.31	-0.69	-0.20	0.94	-0.56	-0.07
Intolerant Ta a	0. 5	0.21	-0.20	-0.09	0.19	0.35	-0.13	0.17	0.09
Tolerant Ta a	0.06	0.06	0.07	-0.07	-0.20	-0.15	0.15	-0.18	0.17
Collector	-0.31	-0.27	0.60	0.30	-0.38	-0.33	0.51	-0.41	-0.06
Filterer	-0.11	-0.11	-0.20	-0.14	0.19	-0.20	-0.23	0.30	-0.14
redator	0.13	-0.07	0.02	-0.12	0.02	0.59	0.07	-0.08	0.20
craper	0.13	0.33	-0.24	-0.15	0.09	0.04	-0.22	0.34	-0.05
hredder	0.29	0.08	-0.16	-0.23	0.09	0.49	-0.11	-0.06	0.43
Collector Ta a	0.49	0.19	-0.03	0.02	-0.03	-0.10	0.02	0.02	0.04
redator Ta a	0.51	0.22	-0.01	-0.18	-0.04	0.24	0.04	-0.04	0.14
craper Ta a	0.37	0.11	-0.17	-0.11	0.14	-0.04	-0.12	0.23	-0.01
hredder Ta a	0.50	0.26	-0.16	-0.18	0.04	0.21	-0.08	0.06	0.15
	-0.	-0.06	0.35	-0.07	-0.26	-0.21	0.28	-0.14	-0.18
	0. 3	0.29	-0.30	-0.08	0.18	0.16	-0.21	0.20	0.11
venness	0.73	0.05	-0.38	0.11	0.29	0.33	-0.31	0.11	0.21
T NH	0.27	-0.26	-0.54	0.58	0.74	0.40	-0.48	0.17	0.25
ensitive T	0.24	-0.20	-0.47	0.44	0.62	0.35	-0.42	0.17	0.29

Appendix J: Correlation among Metrics

Table J (con't.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

Pearson Correlation Coefficients	wimm	Clinger Ta a	prawl Ta a	wimm Ta a	Coleopt Ta a	iptera Ta a	phem Ta a	T Ta a	lecop Ta a
wimmer	1								
Clinger	-0.26	1							
prawler Ta a	-0.23	0.45	1						
wimmer Ta a	0.07	0.33	0.27	1					
Coleoptera Ta a	-0.12	0.44	0.16	0.41	1				
iptera Ta a	-0.17	0.56	0.63	0.29	0.26	1			
phemeroptera Ta a	-0.12	0.71	0.40	0.53	0.28	0.35	1		
T Ta a	-0.28	0. 1	0.61	0.41	0.31	0.53	0.76	1	
lecoptera Ta a	-0.25	0.65	0.62	0.26	0.12	0.47	0.46	0.81	1
Trichoptera Ta a	-0.26	0.78	0.40	0.23	0.34	0.42	0.43	0.78	0.39
Total Ta a	-0.29	0.	0.65	0.49	0.48	0.71	0.69	0. 0	0.64
eck I	-0.29	0.84	0.61	0.43	0.34	0.59	0.69	0.	0.79
H I	0.10	-0.36	-0.21	-0.13	-0.10	-0.09	-0.30	-0.44	-0.45
aetis to phemeroptera	0.59	-0.28	-0.21	0.00	-0.13	-0.06	-0.27	-0.32	-0.25
ominant 1	0.11	-0.52	-0.32	-0.22	-0.22	-0.31	-0.43	-0.53	-0.36
Hydropsychidae to T	-0.04	-0.03	-0.22	-0.08	-0.07	-0.14	-0.11	-0.14	-0.27
Intolerant	-0.23	0.26	0.27	0.14	0.04	0.11	0.25	0.37	0.46
Tolerant	-0.15	-0.24	-0.01	-0.15	-0.16	0.02	-0.18	-0.24	-0.15
Intolerant Ta a	-0.27	0.76	0.65	0.40	0.26	0.57	0.61	0.	0.84
Tolerant Ta a	-0.04	0.06	0.16	0.16	0.11	0.18	0.04	0.00	-0.12
Collector	0.23	-0.28	-0.20	-0.15	-0.15	-0.14	-0.15	-0.33	-0.32
Filterer	0.01	-0.01	-0.17	-0.05	-0.06	-0.12	-0.07	-0.12	-0.20
redator	-0.11	-0.07	0.18	-0.04	-0.10	0.11	-0.06	0.04	0.25

Appendix J: Correlation among Metrics

Table J (con't.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

Pearson Correlation Coefficients	wimm	Clinger Ta a	prawl Ta a	wimm Ta a	Coleopt Ta a	iptera Ta a	phem Ta a	T Ta a	lecop Ta a
craper	-0.22	0.22	0.10	0.13	0.21	0.04	0.15	0.24	0.19
hredder	-0.19	0.19	0.29	0.26	0.22	0.16	0.14	0.28	0.33
Collector Ta a	-0.13	0.58	0.36	0.46	0.39	0.46	0.68	0.55	0.28
redator Ta a	-0.25	0.56	0.63	0.37	0.33	0.67	0.37	0.62	0.59
craper Ta a	-0.19	0.54	0.18	0.20	0.30	0.22	0.36	0.50	0.19
hredder Ta a	-0.22	0.50	0.55	0.31	0.42	0.41	0.36	0.59	0.48
	0.13	-0.53	-0.31	-0.22	-0.22	-0.29	-0.45	-0.54	-0.37
	-0.24	0. 5	0.58	0.45	0.46	0.61	0.68	0.	0.61
venness	-0.04	0.31	0.14	0.11	0.10	0.05	0.29	0.34	0.25
T NH	0.20	0.19	0.20	0.11	-0.01	0.02	0.31	0.32	0.33
ensitive T	0.07	0.18	0.14	0.12	0.06	0.00	0.25	0.27	0.25

Appendix J: Correlation among Metrics

Table J (con't.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

Pearson Correlation Coefficients	Trichop Ta a	Total Ta a	eck I	H I	aetis to phem	omin 1	Hydrop to T	Intol	Tolerant
Trichoptera Ta a	1								
Total Ta a	0.78	1							
eck I	0.71	0. 5	1						
H I	-0.27	-0.27	-0.46	1					
aetis to phemeroptera	-0.23	-0.26	-0.31	0.33	1				
ominant 1	-0.45	-0.53	-0.49	0.31	0.19	1			
Hydropsychidae to T	0.06	-0.07	-0.24	0.20	0.12	0.01	1		
Intolerant	0.15	0.22	0.44	-0. 0	-0.41	-0.24	-0.36	1	
Tolerant	-0.23	-0.16	-0.21	0.72	0.05	0.25	-0.15	-0.33	1
Intolerant Ta a	0.60	0.78	0. 7	-0.49	-0.30	-0.46	-0.29	0.51	-0.20
Tolerant Ta a	0.10	0.30	-0.05	0.26	0.01	-0.02	0.07	-0.19	0.22
Collector	-0.27	-0.29	-0.30	0.42	0.13	0.21	-0.18	-0.24	0.50
Filterer	0.00	-0.09	-0.18	0.00	0.13	0.08	0.50	-0.07	-0.21
redator	-0.12	0.00	0.14	-0.21	-0.20	-0.14	-0.31	0.38	0.01
craper	0.23	0.19	0.26	-0.22	-0.14	-0.02	-0.19	0.06	-0.23
hredder	0.15	0.28	0.35	-0.28	-0.14	-0.22	-0.18	0.48	-0.11
Collector Ta a	0.42	0.68	0.55	-0.04	-0.16	-0.34	-0.05	0.05	-0.01
redator Ta a	0.46	0.73	0.69	-0.19	-0.22	-0.37	-0.28	0.25	0.00
craper Ta a	0.63	0.51	0.47	-0.12	-0.16	-0.24	0.04	0.03	-0.15

Appendix J: Correlation among Metrics

Table J (cont'd.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80

Pearson Correlation Coefficients	Trichop Ta a	Total Ta a	eck I	H I	aetis to phem	omin 1	Hydrop to T	Intol	Tolerant
hredder Ta a	0.53	0.64	0.64	-0.21	-0.15	-0.37	-0.13	0.24	-0.11
	-0.47	-0.54	-0.51	0.35	0.22	0.96	0.00	-0.27	0.30
	0.74	0.	0.	-0.37	-0.27	-0.61	-0.07	0.28	-0.26
venness	0.26	0.27	0.32	-0.40	-0.20	-0.71	-0.04	0.30	-0.34
T NH	0.11	0.12	0.33	-0.73	-0.21	-0.23	-0.48	0.64	-0.48
ensitive T	0.14	0.12	0.32	-0.71	-0.26	-0.20	-0.45	0.67	-0.45

Appendix J: Correlation among Metrics

Table J (con't.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

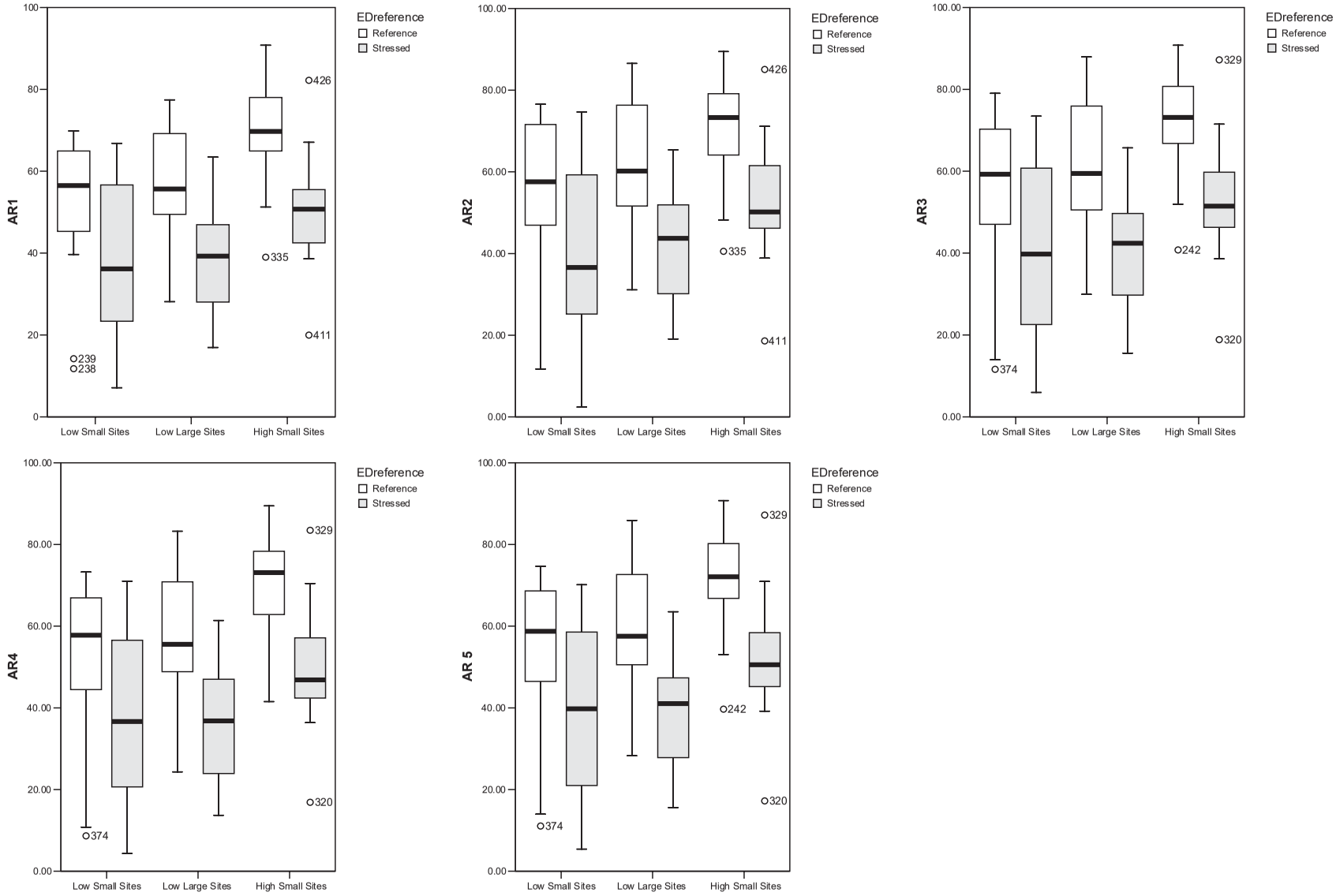
Pearson Correlation Coefficients	Intol Ta a	Tolerant Ta a	Collector	Filterer	redator	craper	hredd	Collector Ta a
Intolerant Ta a	1							
Tolerant Ta a	-0.08	1						
Collector	-0.31	0.10	1					
Filterer	-0.21	0.03	-0.21	1				
redator	0.21	-0.13	-0.23	-0.23	1			
craper	0.23	-0.11	-0.39	-0.17	-0.02	1		
hredder	0.40	0.02	-0.30	-0.18	0.16	0.00	1	
Collector Ta a	0.45	0.39	0.10	-0.05	-0.17	0.03	0.12	1
redator Ta a	0.71	0.21	-0.18	-0.23	0.30	0.13	0.31	0.37
craper Ta a	0.33	0.12	-0.22	-0.03	-0.12	0.39	0.04	0.23
hredder Ta a	0.61	0.11	-0.27	-0.16	0.13	0.22	0.44	0.33
	-0.47	0.01	0.27	0.08	-0.16	-0.05	-0.25	-0.32
	0.74	0.20	-0.35	-0.09	0.06	0.22	0.30	0.60
venness	0.31	-0.16	-0.31	-0.08	0.27	0.07	0.25	0.11
T NH	0.36	-0.26	-0.17	-0.18	0.23	0.21	0.23	0.01
ensitive T	0.34	-0.22	0.00	-0.10	0.20	0.26	0.28	0.08

Appendix J: Correlation among Metrics

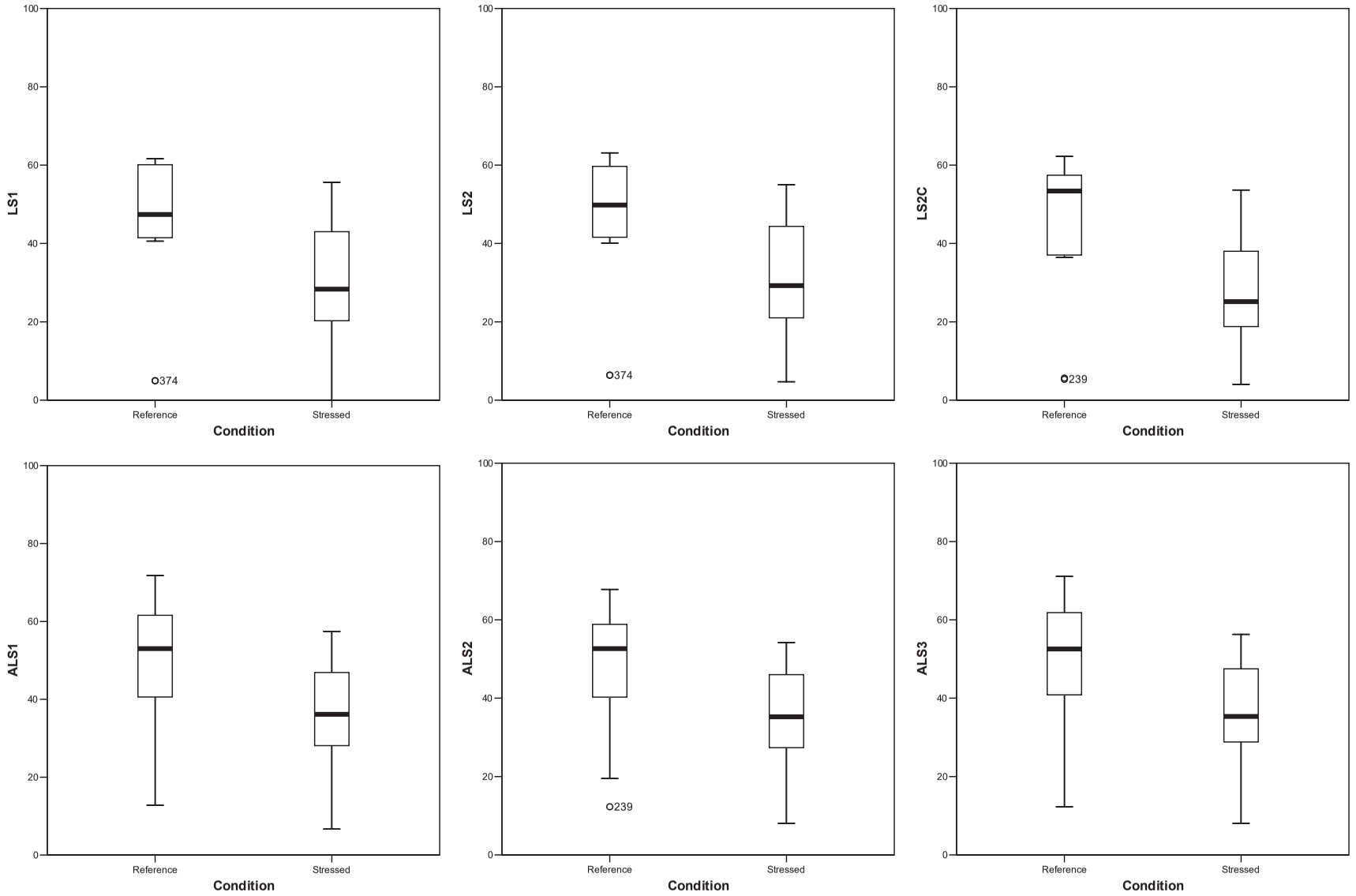
Table J (con't.): Pearson Correlation Coefficients among Candidate Metrics. Metrics for 423 samples were included in the correlations. **Bold** R values are greater than 0.80.

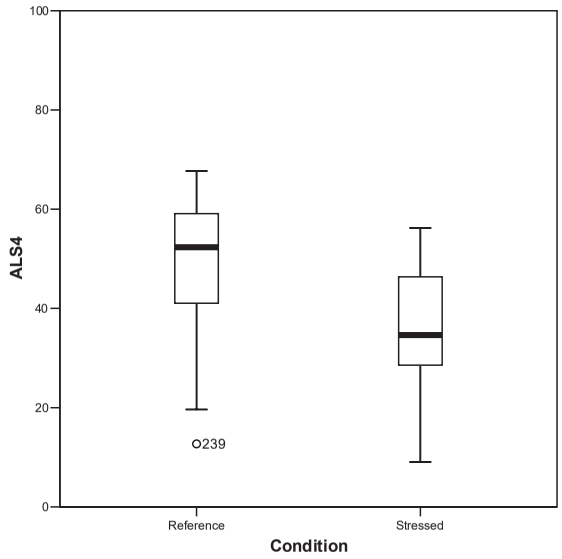
Pearson Correlation Coefficients	redator Ta a	craper Ta a	hredd Ta a			ven-ness	T NH	ensit T
redator Ta a	1							
craper Ta a	0.22	1						
hredder Ta a	0.39	0.28	1					
	-0.37	-0.27	-0.37	1				
	0.65	0.50	0.62	-0.64	1			
venness	0.16	0.14	0.23	-0.78	0.55	1		
T NH	0.14	0.06	0.12	-0.25	0.20	0.31	1	
ensitive T	0.15	0.08	0.14	-0.22	0.20	0.27	0.	1

Appendix K: Comparison of Indices among Bioregions for Biomonitoring in New Mexico



Appendix K (con't.): Comparison of Indices among Bioregions for Biomonitoring in New Mexico

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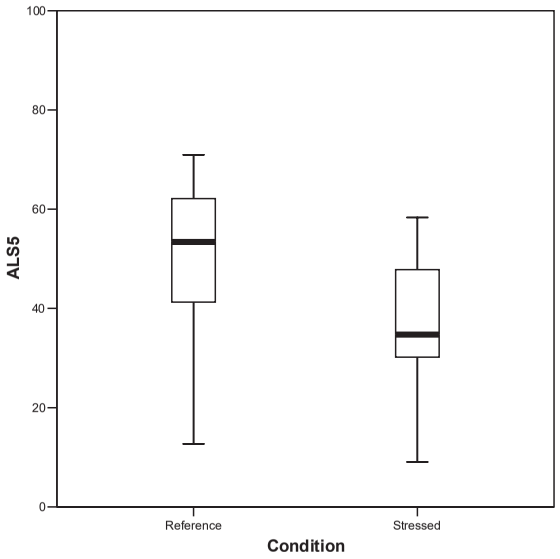
40
20
0
239
Reference
Stressed
Condition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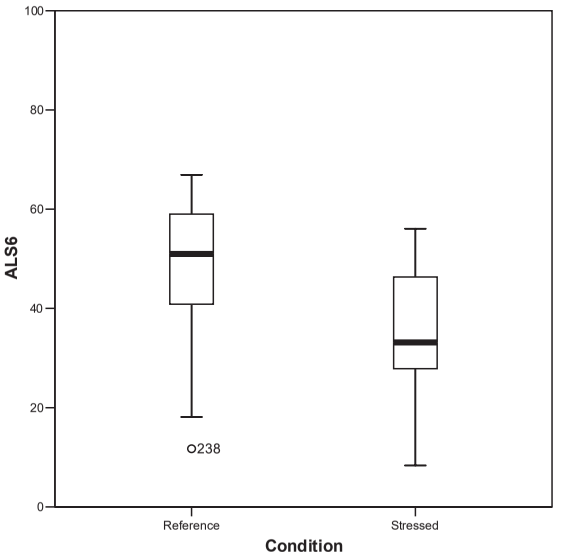
Condition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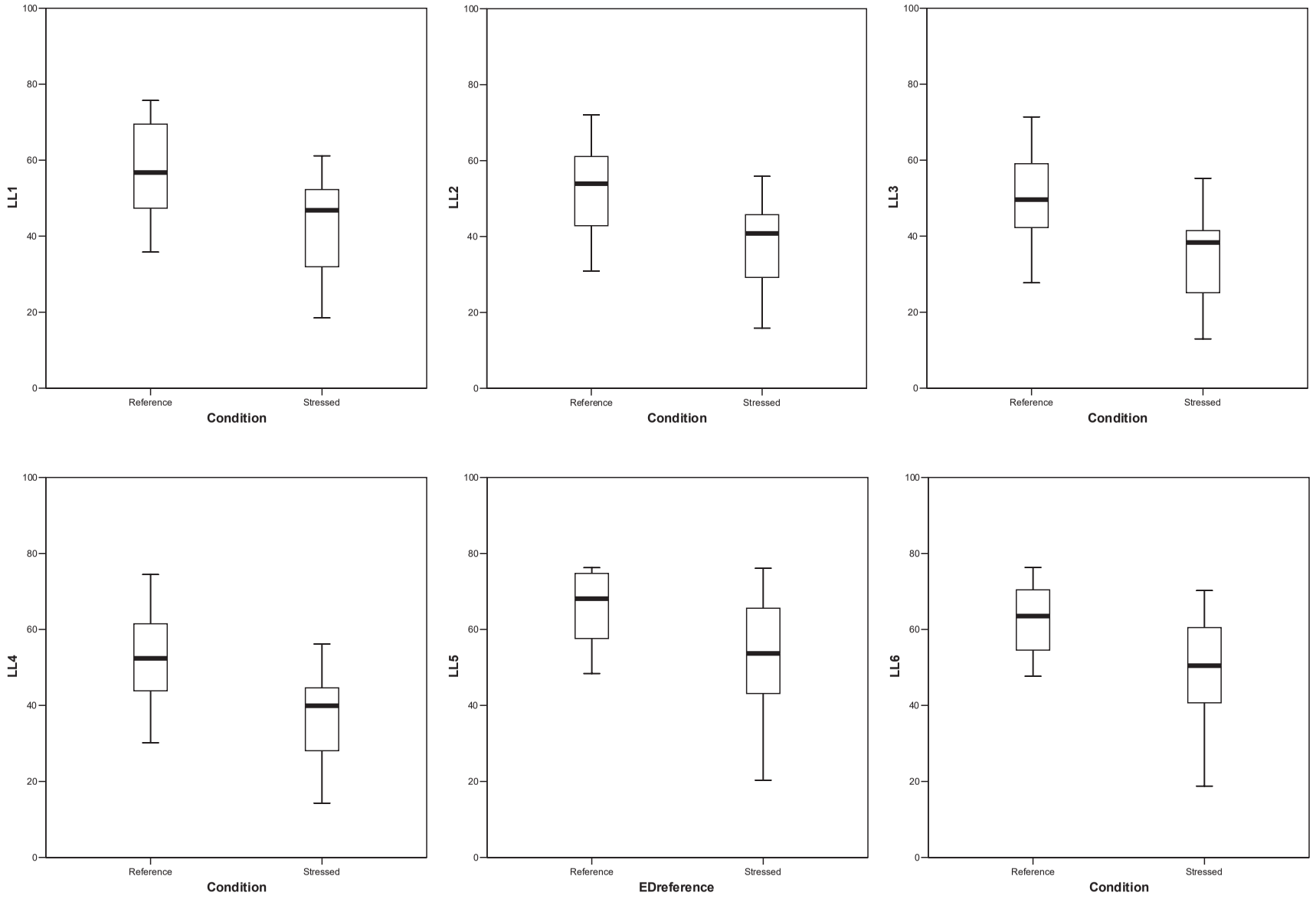
238
Reference
Stressed
Condition


LL1
LL2
LL3
LL4
LL5
LL6
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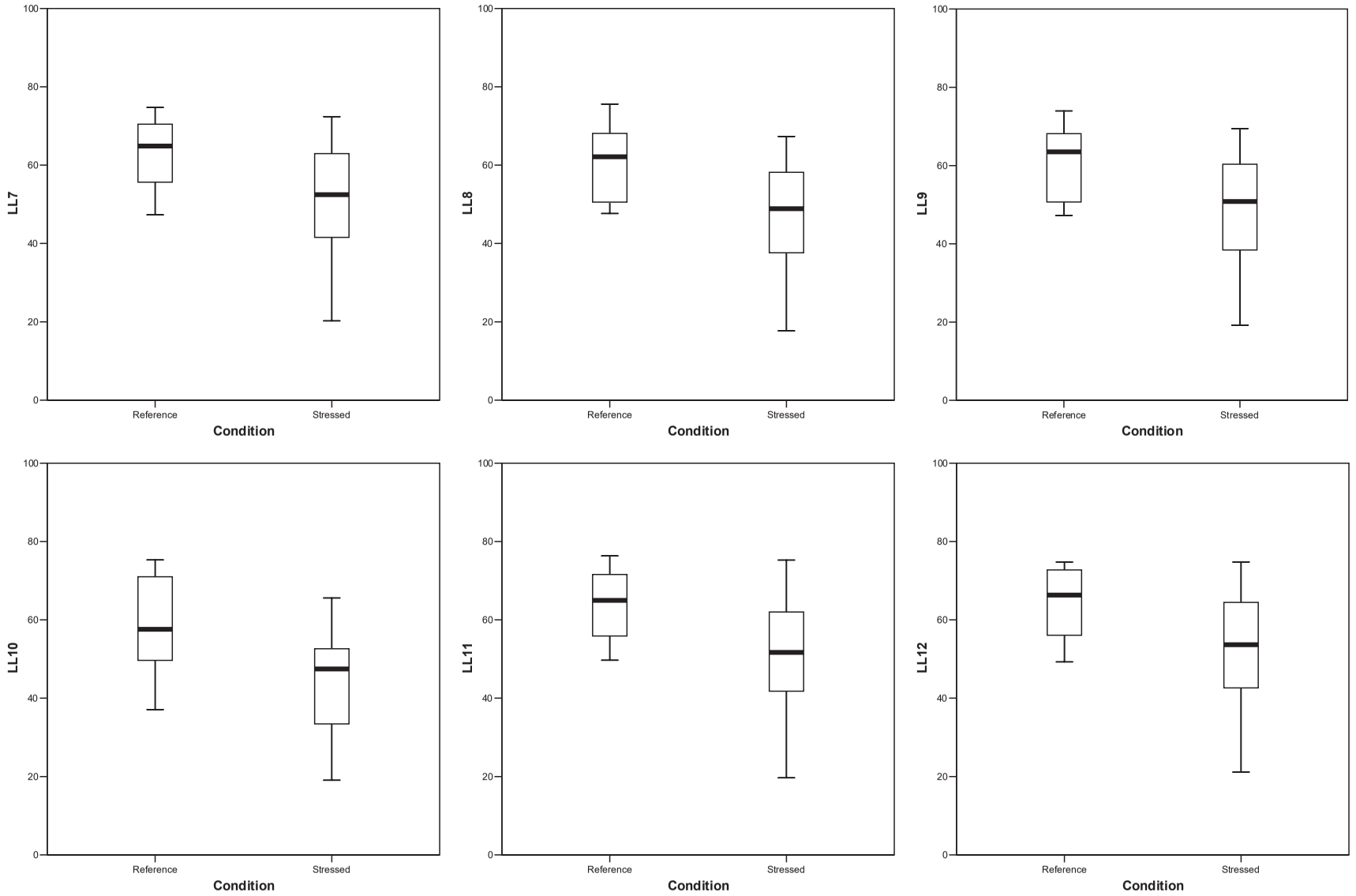
80
60
40
20
0
Reference
Stressed
Condition
EDreference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LL8
LL9
LL10
LL11
LL12
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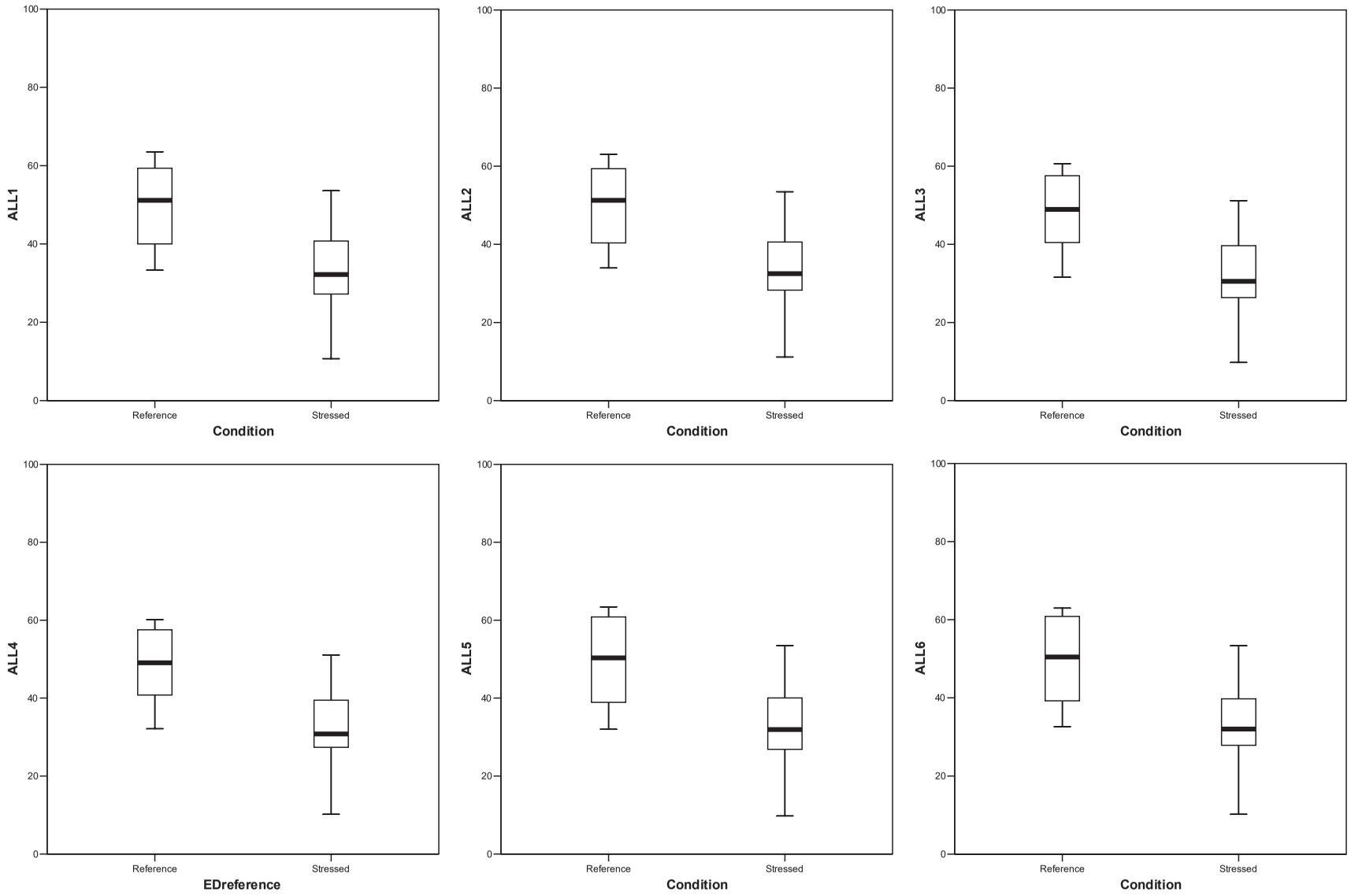
60
40
20
0
Reference
Stressed
Condition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ALL2
ALL3
ALL4
ALL5
ALL6
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60
40
20
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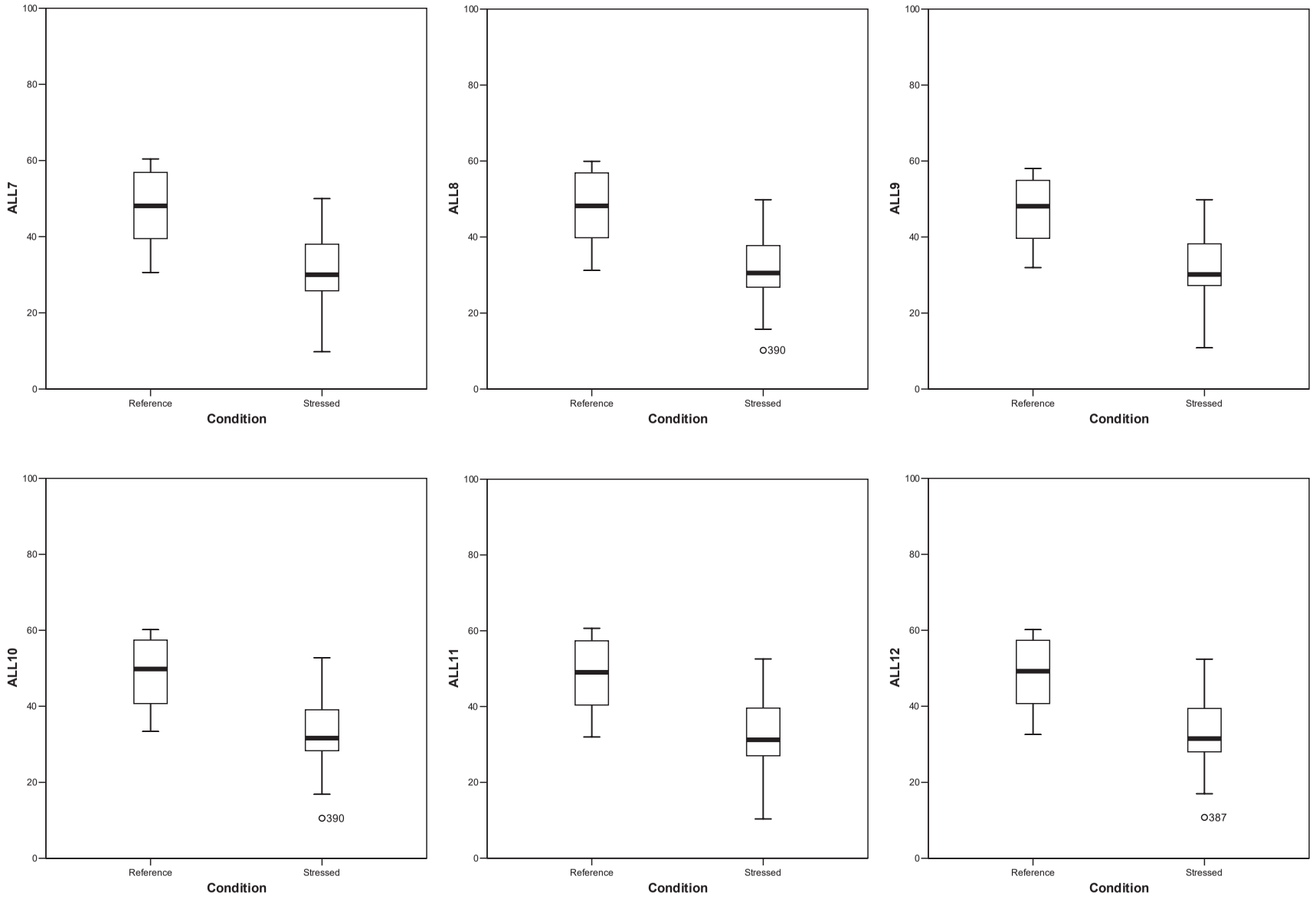
Reference
Stressed
Condition
EDreference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ALL12
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Stressed
Condition
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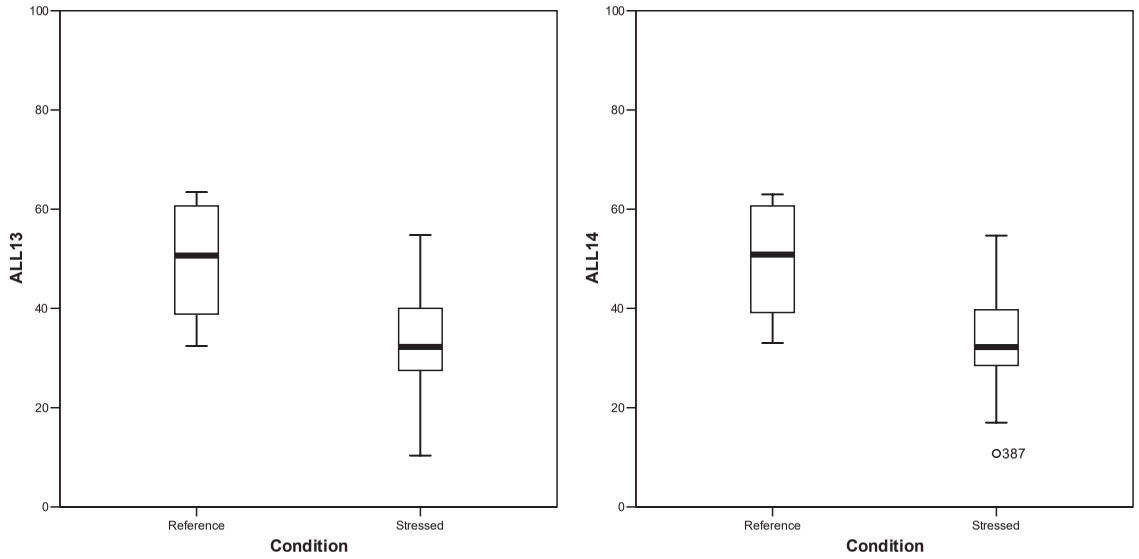
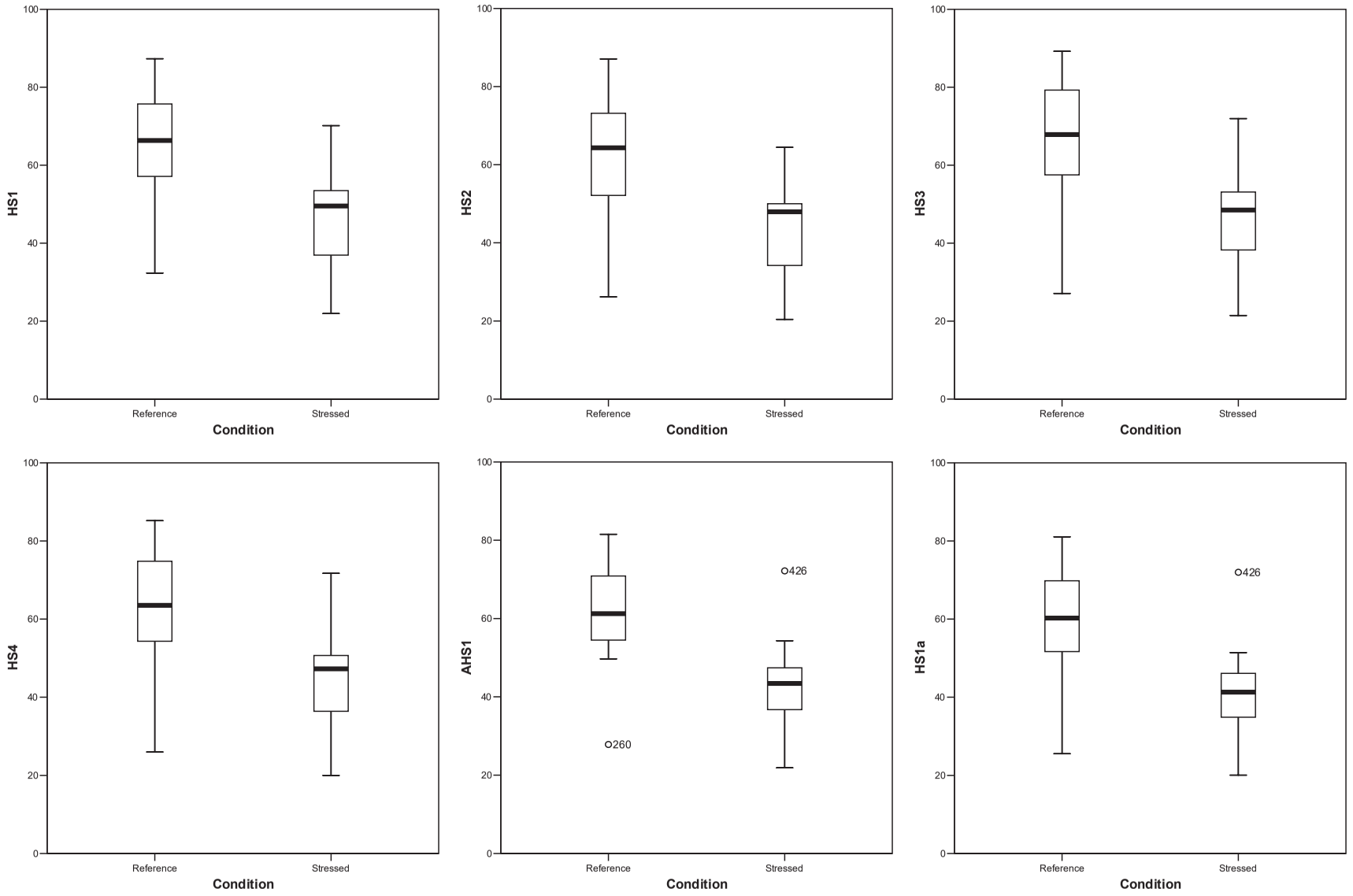
Appendix K (con't.): Comparison of Indices among Bioregions for Biomonitoring in New Mexico

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HS2
HS3
HS4
AHS1
HS1a
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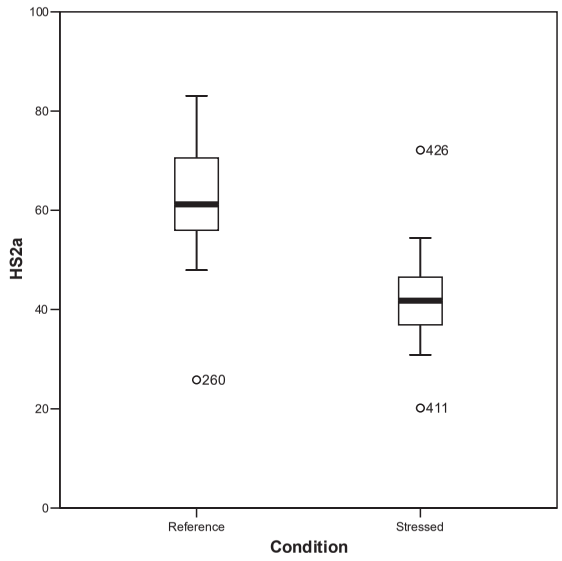
80
60
40
20
0
Reference
Stressed
Condition
426
260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40
20
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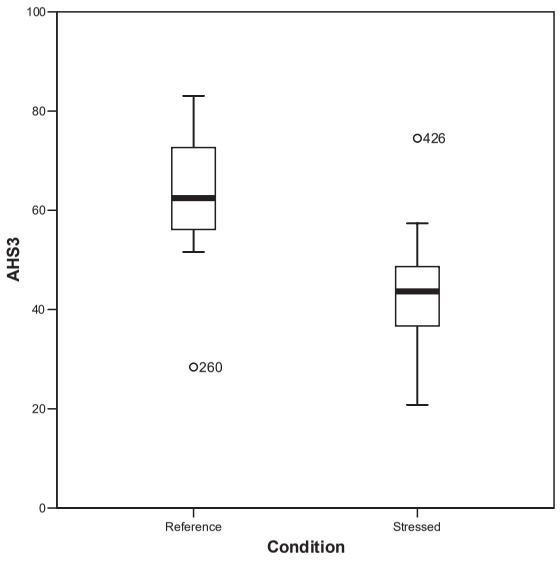
426
260
411
Reference
Stressed
Condition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20
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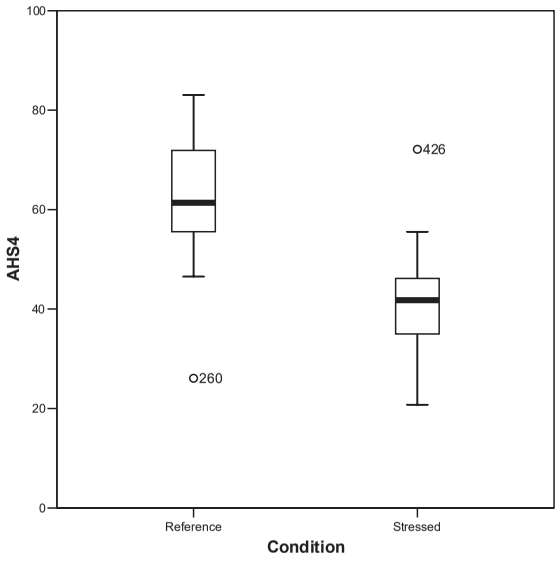
426
260
Reference
Stressed
Condition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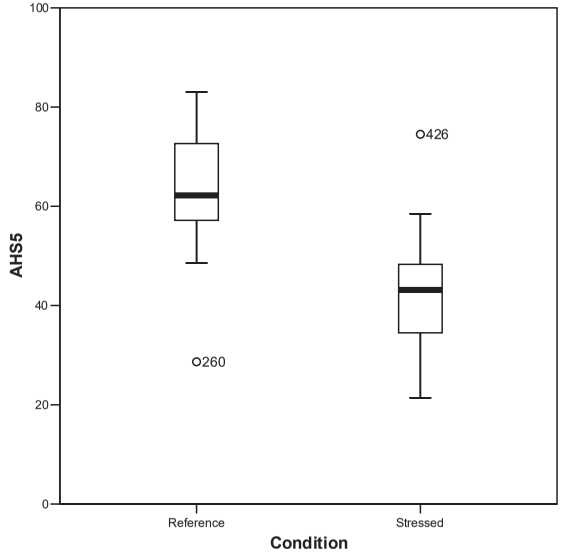
80
60
40
20
0
426
260
Reference
Stressed
Condition


AHS5
100
80
60
40
20
0
426
260
Reference
Stressed
Condition

Appendix L: Index Composition and Discrimination Efficiency

	AR1	AR2	AR3	AR4	AR5	LS1	LS2	LSNMMSCI	LS2C	ALS1	ALS2	ALS3	ALS4	ALS5	ALS6
Taxonomic Composition															
Shannon DI (log_2)	X	X	X		X					X	X	X	X	X	X
Beck BI			X												
Margalef DI				X											
Evenness										X	X	X	X	X	X
Coleoptera %								X	X	X	X	X	X	X	X
Odonota %										X	X	X	X	X	X
Plocoptera %										X	X	X	X	X	X
Habit															
Clinger Taxa			X		X		X		X		X	X			
Sprawler Taxa								X							
Taxonomic Richness															
EPT Taxa		X				X		X		X					
Ephemeroptera Taxa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Plecoptera Taxa	X										X		X		X
Trichoptera Taxa	X	X	X	X	X					X	X	X	X	X	X
Total Taxa	X												X	X	X
Tolerance															
Sensitive EPT %								X							
Intolerant Taxa				X	X							X		X	X
Functional Feeding Group															
Scraper %	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Scraper Taxa	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		6	7	6	7	4	4	7	5	10	11	11	11	11	12
Low Small 25th %	45.3242	46.9389	47.0232	44.4818	46.47	41.4648	41.5887	43.5477	37.044	40.6013	40.268	40.8616	41.0359	41.2648	40.8378
Hess DE	66.67%	66.67%	66.67%	66.67%	66.67%	66.67%	66.67%	77.78%	66.67%	55.56%	55.56%	55.56%	55.56%	55.56%	55.56%
Other								70.00%							
Ben_01a								60.00%							
Ben_03p								75.00%							
Ben_03r								100.00%							

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Appendix M: Microsoft® Access® Query to Calculate Indices

To review this MS® Access® database, please contact

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Appendix N: Development of Confidence Intervals

Using the mean standard errors and critical values from the following table, one can develop confidence intervals as follows (also see Table N-2):

For a 90% confidence interval around the lower cut-off for a rating of Fair using the Low Large NMMSCI (which is also the upper cut-off for a rating of Poor), one would add 12.01 (Table N-2) to 34.43 (Table 8-1) and subtract 12.01 from 34.43:

Upper limit of confidence interval: 34.43 + 12.01 = 46.44
Lower limit of confidence interval: 34.43 – 12.01 = 22.42

A Low Large NMMSCI score between 22.42 and 46.44 would have to be judged based on other factors unless multiple replicates for the station were available (see box-and whisker plot below).

For a 95% confidence interval around the upper cut-off for Fair using the High Small NMMSCI (which is the bottom of the box and the lower cut-off for a rating of Good), one would add 2.12 (Table N-1) to 56.70 (Table 8.1, notice that this value is also the threshold for the index) and subtract 2.12 from 55.99.

Upper limit of confidence interval: 56.70 + 0.95 = 57.65
Lower limit of confidence interval: 56.70 – 0.95 = 55.75

A High Small NMMSCI score between 55.75 and 57.65 would have to be judged based on other factors unless multiple replicates for the station were available (see box-and whisker plot below).

Notice that the High Small NMMSCI confidence interval is considerably smaller than that for the Low Large NMMSCI. The number of replicate samples is key in calculating the mean standard error and determining the critical value used for developing the confidence interval.

Table N-1. Values for use in calculating confidence intervals (CI) for index condition cut-offs.

Index	Mean Standard Error	90% CI Critical Value	95% CI Critical Value	90% Confidence Interval	95 % Confidence Interval
Low Small NMMSCI	1.18	2.92	4.30	+/- 3.46	+/- 5.10
Low Large NMMSCI	4.11	2.92	4.30	+/- 12.01	+/- 17.70
High Small NMMSCI	0.48	1.80	1.97	+/- 0.87	+- 0.95

Table N-2. Confidence Intervals for the Upper Limit of Rating Divisions.

90% CIs	**Very Poor**	**Poor**	**Fair**	**Good**
LSNMMSCI	14.52 - 11.06	25.57 - 32.49	40.09 - 47.01	52.99 - 59.91
LLNMMSCI	5.20 - 29.22	22.42 - 46.44	39.63 - 63.65	63.81 - 87.83
HSNMMSCI	18.03 - 19.77	36.33 - 38.07	55.83 - 57.57	77.48 - 79.22
95% CIs	**Very Poor**	**Poor**	**Fair**	**Good**
LSNMMSCI	9.42 - 19.62	23.93 - 34.13	38.45 - 48.65	51.35 - 61.55
LLNMMSCI	0.00 - 34.91	16.73 - 52.13	33.94 - 69.34	58.12 - 93.52
HSNMMSCI	17.95 - 19.85	36.25 - 38.15	55.75 - 57.65	77.40 - 79.30