

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105**

**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
NPDES PERMIT NO. NN0028193**

In compliance with the provisions of the Clean Water Act (“CWA”) (Public Law 92-500, as amended, 33 U.S.C. 1251 et seq.), the following discharger is authorized to discharge from the identified facility at the outfall location(s) specified below, in accordance with the effluent limits, monitoring requirements, and other conditions set forth in this permit:

Discharger Name	Owner: Navajo Transitional Energy Company Operator/Permittee: Bisti Fuels LLC
Discharger Address	P.O. Box 1717 Fruitland, New Mexico 87416-1717
Facility Name	Navajo Coal Mine
Facility Location Address	16 miles Southwest of Fruitland Fruitland, NM 87416
Facility Rating	Minor

Outfall Number	General Type of Waste Discharged	Outfall Latitude	Outfall Longitude	Receiving Water
38 Outfalls listed in Appendix A -C	Alkaline Mine Drainage, Coal Preparation Areas, Western Alkaline Reclamation,	38 Outfalls listed in Appendix A -C	37 Outfalls listed in Appendix A -C	Chaco River

This permit was issued on:	03/05/2018
This permit shall become effective on:	05/01/2018
This permit shall expire at midnight on:	04/30/2023
In accordance with 40 CFR 122.21(d), the discharger shall submit a new application for a permit at least 180 days before the expiration date of this permit, unless permission for a date no later than the permit expiration date has been granted by the Director.	

Signed this March 5, 2018, for the Regional Administrator.

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Tomas Torres, Director  
Water Division

**This permit was originally issued, became effective, and shall expire as indicated above.  
This permit is modified (see pages 11, 21, and 22) effective as of the signature date below.**

**TOMAS** Digitally signed by  
**TORRES** TOMAS TORRES  
Date: 2020.08.13  
11:42:27 -07'00'

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**Tomas Torres, Director**  
**Water Division**

**SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**1. Alkaline Mine Drainage Outfalls**

During the period beginning on the effective date of this permit and lasting through the date of expiration, the permittee is authorized to discharge mine drainage from the Outfall Numbers listed in Appendix A – “Alkaline Mine Drainage” to the receiving waters listed in Appendix A – “Alkaline Mine Drainage”. Such discharges shall be limited and monitored by the permittee as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

Table A-1: Alkaline Mine Drainage Effluent Limitations and Monitoring Requirements

<b>Effluent Parameter</b>	<b>Units</b>	<b>Monthly Average</b>	<b>Maximum for any 1 day</b>	<b>Monitoring Frequency <sup>(1)</sup></b>	<b>Sampling Type</b>
Flow	MGD	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Calculated <sup>(2)</sup>
Total Suspended Solids (TSS)	mg/L	35	70	1/day <sup>(1)</sup>	Discrete
Iron, total (Existing Outfalls)	mg/L	3.5	7.0	1/day <sup>(1)</sup>	Discrete
Iron, total (New Outfalls)	mg/L	3.0	6.0	1/day <sup>(1)</sup>	Discrete
Manganese, total	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
pH	Std.units	between 6.0 to 9.0		1/day <sup>(1)</sup>	Discrete
Arsenic, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Arsenic, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

Mercury, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Sulfate	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Total Dissolved Solids (TDS)	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

NOTES:

- (1) Samples shall be taken once during each occurrence or once every 24 hours if the duration of the occurrence is greater than 24 hours.
- (2) To determine total flow in gallons for each discharge and duration of discharge.
- (3) Monitoring only.

**2. Coal Preparation Plants, Storage Areas, and Ancillary Area Runoff Outfalls**

During the period beginning on the effective date of this permit and lasting through the date of expiration, the permittee is authorized to discharge runoff from the Outfall Numbers listed in Appendix B – “Coal Preparation & Associated Areas” to the receiving waters listed in Appendix B – “Coal Preparation & Associated Areas”. Such discharges shall be limited and monitored by the permittee as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

Table A-2: Coal Preparation Areas Effluent Limitations and Monitoring Requirements

<b>Effluent Parameter</b>	<b>Units</b>	<b>Monthly Average</b>	<b>Maximum for any 1 day</b>	<b>Monitoring Frequency <sup>(1)</sup></b>	<b>Sampling Type</b>
Flow	MGD	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Calculated <sup>(2)</sup>
Total Suspended Solids (TSS)	mg/L	35	70	1/day <sup>(1)</sup>	Discrete
Iron, total (Existing Outfalls)	mg/L	3.5	7.0	1/day <sup>(1)</sup>	Discrete
Iron, total (New Outfalls)	mg/L	3.0	6.0	1/day <sup>(1)</sup>	Discrete
Manganese, Total	mg/L	2.0	4.0	1/day <sup>(1)</sup>	Discrete

pH	Std.units	between 6.0 to 9.0		1/day <sup>(1)</sup>	Discrete
Arsenic, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Arsenic, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Sulfate	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Total Dissolved Solids (TDS)	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

NOTES:

- (1) Samples shall be taken once during each occurrence or once every 24 hours if the duration of the occurrence is greater than 24 hours.
- (2) To determine total flow in gallons for each discharge and duration of discharge.
- (3) Monitoring only.

**3. Western Alkaline reclamation, brushing and grubbing, topsoil stockpiling, and regraded area Outfalls.**

During the period beginning on the effective date of this permit and lasting through the date of expiration, the permittee is authorized to discharge runoff from the Outfall Numbers listed in Appendix C – “Western Alkaline Reclamation Areas” to the receiving waters listed in Appendix C – “Western Alkaline Reclamation Areas”.

Such discharges shall be limited and monitored by the permittee as specified below. The permittee must:

- a) submit a site-specific Sediment Control Plan for EPA approval demonstrating that implementation of the Sediment Control Plan will result in average annual sediment yields that will not be greater than the sediment yield levels from pre-mined, undisturbed conditions. The Sediment Control Plan shall, at a minimum, identify Best Management Practices (BMPs), including design specifications, construction specifications, maintenance schedules, criteria for inspection, and expected performance and longevity of the BMPs.
- b) demonstrate using watershed models that the implementation of the Sediment Control Plan will result in average annual sediment yields that will not be greater than the sediment yield levels from pre-mined, undisturbed conditions. The watershed model must be the same model that is being used to acquire the permittee's SMCRA permit.
- c) design, implement, and maintain the BMPs in the manner specified in the approved Sediment Control Plan throughout the term of this permit.
- d) revise the Sediment Control Plan to incorporate new areas. As existing outfalls defined in this permit as "alkaline mine drainage" are reclaimed, the approved Sediment Control Plan shall be updated to incorporate the newly reclaimed outfalls into this subpart. A revised Sediment Control Plan and revised watershed model must be submitted to EPA and approved by EPA before it becomes effective. Revisions to the Sediment Control Plan must meet all requirements contained at 40 CFR Part 434.82, and 100% of the drainage area to an outfall that has been disturbed by mining must meet the definition of "western alkaline reclamation, brushing and grubbing, topsoil stockpiling, and regraded areas" (as defined at 40 CFR 434.80) to be considered for coverage. EPA's approval of an updated Sediment Control Plan and reclassification of an existing outfall from "alkaline mine drainage" to a reclaimed area will be considered a minor modification to the permit as described in Section C of this permit.

#### **4. Discharges resulting from precipitation events**

- a) The permittee is authorized to discharge runoff from Outfall Numbers listed in Appendix A – "Alkaline Mine Drainage" and Appendix B – "Coal Preparation & Associated Areas" resulting from precipitation events greater than or equal to a 10-year, 24-hour precipitation event (1.80 inches within a 24 hour period)

During the period beginning on the effective date of this permit and lasting through the date of expiration, the permittee is authorized to discharge runoff from all Outfalls resulting from

precipitation events greater than or equal to a 10-year, 24-hour precipitation event (1.80 inches within a 24 hour period).

Such discharges shall be limited and monitored by the permittee as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

Table A-4-a: Discharges from precipitation events less than 10-year, 24-hour event.

<b>Effluent Parameter</b>	<b>Units</b>	<b>Monthly Average</b>	<b>Maximum for any 1 day</b>	<b>Monitoring Frequency <sup>(1)</sup></b>	<b>Sampling Type</b>
Flow	MGD	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Calculated <sup>(2)</sup>
Settleable Solids	mL/L	--	0.5	1/day <sup>(1)</sup>	Discrete
Iron, total	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Manganese, total	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
pH	Std.units	between 6.0 to 9.0		1/day <sup>(1)</sup>	Discrete
Arsenic, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Arsenic, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

Selenium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Sulfate	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Total Dissolved Solids (TDS)	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

NOTES:

- (1) Samples shall be taken once during each occurrence or once every 24 hours if the duration of the occurrence is greater than 24 hours.
- (2) To determine total flow in gallons for each discharge and duration of discharge.
- (3) Monitoring only.

b) Discharges resulting from precipitation events greater than a 10-year, 24-hour precipitation event (1.56 inches within a 24 hour period), which is comparable to the National Oceanic and Atmospheric Agency’s (“NOAA”) frequency estimates at the Fruitland 3E station for a 10-year, 24-hour storm event and used in the design of ponds and spillways at Navajo Mine and Pinabete Mine areas.

During the period beginning on the effective date of this permit and lasting through the date of expiration, the permittee is authorized to discharge runoff from all Outfalls resulting from precipitation events greater than a 10-year, 24-hour precipitation event (1.56 inches within a 24 hour period).

Such discharges shall be limited and monitored by the permittee as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

Table A-4-b: Discharges from precipitation events greater than 10-year, 24-hour event.

<b>Effluent Parameter</b>	<b>Units</b>	<b>Monthly Average</b>	<b>Maximum for any 1 day</b>	<b>Monitoring Frequency <sup>(1)</sup></b>	<b>Sampling Type</b>
Flow	MGD	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Calculated <sup>(2)</sup>
Settleable Solids	mL/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Iron, total	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Manganese, total	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete



pH	Std.units	between 6.0 to 9.0		1/day <sup>(1)</sup>	Discrete
Arsenic, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Arsenic, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Boron, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Cadmium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Lead, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Mercury, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, total	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Selenium, dissolved	ug/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Sulfate	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete
Total Dissolved Solids (TDS)	mg/L	Monitor <sup>(3)</sup>	Monitor <sup>(3)</sup>	1/day <sup>(1)</sup>	Discrete

NOTES:

- (1) Samples shall be taken once during each occurrence or once every 24 hours if the duration of the occurrence is greater than 24 hours.
- (2) To determine total flow in gallons for each discharge and duration of discharge.
- (3) Monitoring only.

**SECTION B. GENERAL DISCHARGE SPECIFICATIONS**

- 1. All Waters of the Navajo Nation shall be free from pollutants in amounts or combinations that, for any duration:
  - a. Cause injury to, are toxic to, or otherwise adversely affect human health, public safety, or public welfare.

- b. Cause injury to, are toxic to, or otherwise adversely affect the habitation, growth, or propagation of indigenous aquatic plant and animal communities or any member of these communities; of any desirable non-indigenous member of these communities; of waterfowl accessing the water body; or otherwise adversely affect the physical, chemical, or biological conditions on which these communities and their members depend.
- c. Settle to form bottom deposits, including sediments, precipitates and organic materials, that cause injury to, are toxic to, or otherwise adversely affect the habitation, growth or propagation of indigenous aquatic plant and animal communities or any member of these communities; of any desirable non-indigenous member of these communities; of waterfowl accessing the water body; or otherwise adversely affect the physical, chemical, or biological conditions on which these communities and their members depend.
- d. Cause physical, chemical, or biological conditions that promote the habitation, growth, or propagation of undesirable, non-indigenous species of plant or animal life in the water body.
- e. Cause solids, oil, grease, foam, scum, or any other form of objectionable floating debris on the surface of the water body; may cause a film iridescent appearance on the surface of the water body; or that may cause a deposit on a shoreline, on a bank, or on aquatic vegetation.
- f. Cause objectionable odor in the area of the water body.
- g. Cause objectionable taste, odor, color, or turbidity in the water body.
- h. Cause objectionable taste in edible plant and animal life, including waterfowl, that reside in, on, or adjacent to the water body.

### **SECTION C. BEST MANAGEMENT PRACTICES**

The permittee shall review and update their Storm Water Pollution Prevention Plan (SWPPP). The permittee shall develop enhanced good housekeeping provisions to their SWPPP to address onsite storm water management from coal and coal combustion byproducts and the protection of surface waters. The SWPPP shall, at a minimum, incorporate the following provisions:

*Residue Hauling Vehicles.* Inspect all coal or coal residue hauling vehicles for proper covering over the load adequate gate sealing and overall integrity of the container body. Repair as soon as practicable, vehicles without load covering or adequate gate sealing, or with leaking containers or beds. If covering is not used, ensure that haul vehicles are not overfilled with coal and that operators are trained to watch for and report coal spillage on the haul road. Additionally, ensure drainages from the roads are directed towards BMPs and sediment ponds to stop any coal or coal residue from entering the waterways.

The permittee shall submit revised SWPPP to the permitting authority within three months of permit issuance for EPA review.

## **SECTION D. PERMIT REOPENER**

**Should any of the monitoring indicate that the discharge causes, has the reasonable potential to cause, or contributes to excursions above water quality criteria, the permit may be reopened for the imposition of water quality based limits and/or whole effluent toxicity limits. Also, this permit may be modified, in accordance with the requirements set forth at 40 CFR Parts 122.44 and 124.14, to include appropriate conditions or limits to address demonstrated effluent toxicity based on newly available information, or to implement any EPA-approved new Tribal water quality standards.**

**This permit authorizes the discharge of wastewater from 38 outfalls in 3 distinct subcategories. The permittee anticipates creating one new outfall and converting nine existing Alkaline Mine Drainage outfalls under Appendix A. to Western Alkaline Drainage outfalls under Appendix C. For details of the proposed modifications see Table 1 and map in Attachment C. Any new outfall or existing outfall reclassified during this permit term shall comply with the effluent limitations and monitoring and reporting requirements of the permit. The permittee shall update the sediment control plan, and seek approval of the updates from the Office of Surface Mining Reclamation and Enforcement and EPA and provide written notification to the EPA at least 30 days prior to the construction of a new, or conversion of an existing outfall, so that EPA may add, terminate or reclassify an outfall in the appropriate Appendix to this permit.**

**If the permittee wishes authorization for discharge from new outfalls not identified in Attachment C. or for an area not currently being mined, the permittee must seek a major modification to the existing permit pursuant to 40 CFR Section 122.62.**

## **SECTION E. MONITORING AND REPORTING**

### **1. Reporting of Monitoring Results**

- a. Monitoring results obtained during the previous year shall be summarized for each month and submitted on forms to be supplied by the EPA Regional Administrator, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of the permit. Unless otherwise specified, discharge flow shall be reported in terms of the average flow over that 30 day period. These reports are due January 28 of each year. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator at the following addresses:

NPDES Compliance Office  
Environmental Protection Agency (WTR-1)  
75 Hawthorne Street  
San Francisco, CA 94105  
Telephone: (415) 972-3519

Navajo Nation Environmental Protection Agency  
Navajo Nation EPA  
P.O. Box 339  
Window Rock, AZ 86515  
Telephone: (928) 871-7185

- b. For effluent analyses, the permittee shall utilize an EPA-approved analytical method with a Method Detection Limit (MDL) that is lower than the effluent limitations (or lower than applicable water quality criteria if monitoring is required but no effluent limitations have been established.) MDL is the minimum concentration of an analyte that can be detected with 99% confidence that the analyte concentration is greater than zero, as defined by the specific laboratory method listed in 40 CFR Part 136. The procedure for determination of a laboratory MDL is in 40 CFR Part 136, Appendix B.
- c. If all published MDLs are higher than the effluent limitations (or applicable criteria concentrations), the permittee shall utilize the EPA-approved analytical method with the lowest published MDL.
- d. The permittee shall develop a Quality Assurance (QA) Manual/QA Plan. The purpose of the QA Manual is to assist in planning for the collection and analysis of samples and explaining data anomalies if they occur. As appropriate and applicable, the QA Manual shall include the details enumerated below. The QA Manual shall be retained on the permittee's premises and be available for review by USEPA or Navajo Nation EPA upon request. The permittee shall review its QA Manual annually and revise it when appropriate. Throughout all field sampling and laboratory analyses, the permittee shall use quality assurance/quality control (QA/QC) procedures as documented in their QA Manual.
- i. Project Management including roles and responsibilities of the participants; purpose of sample collection; matrix to be sampled; the analytes or compounds being measured; applicable technical, regulatory, or program-specific action criteria; personnel qualification requirements for collecting samples.

- ii. Sample collection procedures; equipment used; the type and number of samples to be collected including QA/QC samples (i.e., background samples, duplicatives, and equipment or field blanks); preservatives and holding times for the samples (see 40 CFR Part 136.3).
  - iii. Identification of the laboratory to be used to analyze the samples; provisions for any proficiency demonstration that will be required by the laboratory before or after contract award such as passing a performance evaluation sample; analytical method to be used; required QC results to be reported (e.g., matrix spike recoveries, duplicate relative percent differences, blank contamination, laboratory control sample recoveries, surrogate spike recoveries, etc.) and acceptance criteria; and corrective actions to be taken by the permittee or the laboratory as a result of problems identified during QC checks.
  - iv. Discussion of how the permittee will perform data review and requirements for reporting of results to USEPA or Navajo Nation EPA to include resolving of data quality issues and identifying limitations on the use of the data.
- e. Sample collection shall be performed as stated in the QA Manual. The QA Manual shall include a discussion on the preservation and handling, preparation and analysis of samples as described in the most recent edition of 40 CFR Part 136.3, unless otherwise specified in this permit.

## **2. Monitoring and Records**

Records of monitoring information shall include:

- a. Date, exact location, and time of sampling or measurements performed, preservatives used;
- b. Individual(s) who performed the sampling or measurements;
- c. Date(s) analyses were performed;
- d. Laboratory(ies) which performed the analyses;
- e. Analytical techniques or methods used;
- f. Any comments, case narrative or summary of results produced by the laboratory. These should identify and discuss QA/QC analyses performed concurrently during sample analyses and should specify whether they met project and 40 CFR Part 136 requirements. The summary of results must include information on initial and continuing calibration, surrogate analyses, blanks, duplicates,

- laboratory control samples, matrix spike and matrix spike duplicate results, sample receipt condition, holding times, and preservation.
- g. Summary of data interpretation and any corrective action taken by the permittee.
  - h. Effluent limitations for analytes/compounds being analyzed.

### **3. Twenty Four-Hour Reporting of Noncompliance**

The permittee shall report any non-compliance which may endanger human health or the environment. This information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances to the following persons or their offices:

CWA Compliance Office Manager  
U.S. EPA Region 9  
(415) 972-3577

Navajo Nation EPA  
Attn: Patrick Antonio  
(928) 871-7185

If the permittee is unsuccessful in contacting the persons above, the permittee shall report by 9 a.m. on the first business day following the noncompliance. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the time it is expected to continue; and steps or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

## **SECTION F. INSPECTION AND ENTRY**

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and such other documents as may be required by law, to perform inspections under authority of Section 10: Inspection and Entry of the EPA Region 9 "Standard Federal NPDES Permit Conditions", dated July 27, 2011, as attached in Attachment A.

## SECTION G. DEFINITIONS

The following definitions shall apply unless otherwise specified in the permit:

1. Discrete sample means any individual sample collected in less than 15 minutes.
2. Daily discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharges over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day. Daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that sampling day.
3. Daily average discharge limitation means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
4. Daily maximum concentration means the measurement made on any single discrete sample of composite sample.
5. Daily maximum mass limit means the highest allowable daily discharge by mass during any calendar day.
6. A composite sample means, for flow rate measurements, the arithmetic mean of no fewer than 4 individual measurements taken at equal intervals for one hour or for the duration of discharge, whichever is shorter. A composite sample means, for other than flow rate measurements, a combination of 4 individual portions obtained at equal time intervals for 4 hours or for the duration of the discharge, whichever is shorter. The volume of each individual portion shall be directly proportional to the discharge flow rate at the time of sampling. The sampling period shall coincide with the period of maximum discharge flow.
7. A monthly or weekly average concentration limitation means the arithmetic mean of consecutive measurements made during a calendar month or weekly period, respectively.
8. A monthly or weekly average mass limitation means the total discharge by mass during a calendar monthly or weekly period, respectively, divided by the number of days in the

period that the facility was discharging. Where less than daily sampling is required by this permit, the monthly or weekly average value shall be determined by the summation of all the measured discharges by mass divided by the number of days during the monthly or weekly period when the measurements were made.



**APPENDIX A – “Alkaline Mine Drainage”**

Serial Number/	Latitude Deg.Min.Sec.	Longitude Deg.Min.Sec.	Receiving Water
<b>Existing Outfalls</b>			
006	36-37-34	108-29-58	Chaco River
007	36-37-31	108-30-14	Chaco River
008	36-37-02	108-30-31	Chaco River
011	36-35-59	108-31-37	Chaco River
013	36-33-02	108-31-44	Chaco River
019	36-31-07	108-31-21	Chaco River
<b>New Outfalls</b>			
020	36-30-45	108-29-49	Chaco River
021	36-30-46	108-29-37	Chaco River
022	36-31-03	108-29-05	Chaco River
023	36-31-07	108-30-44	Chaco River
4-1	36-31-04	108-31-11	Chaco River
4-2	36-30-53	108-31-31	Chaco River
4-3	36-30-45	108-30-20	Chaco River
4-4	36-30-42	108-30-26	Chaco River
4-5	36-30-45	108-31-52	Chaco River
4-6	36-30-36	108-32-18	Chaco River
4-7	36-30-33	108-32-24	Chaco River
4-8	36-30-29	108-32-37	Chaco River
4-9	36-30-26	108-30-05	Chaco River
4-10	36-30-18	108-29-58	Chaco River
4-11	36-30-09	108-29-52	Chaco River
4-12	36-30-12	108-29-45	Chaco River
4-13	36-29-42	108-29-16	Chaco River
4-15	36-29-45	108-32-28	Chaco River
4-19	36-29-20	108-31-41	Chaco River
4-17	36-29-04	108-31-22	Chaco River
4-18	36-28-56	108-30-55	Chaco River
4-19	36-28-38	108-30-42	Chaco River
4-20	36-28-29	108-30-44	Chaco River
4-21	36-28-08	108-30-31	Chaco River
4-22	36-27-54	108-30-19	Chaco River

**APPENDIX B – “Coal Preparation & Associated Areas”**

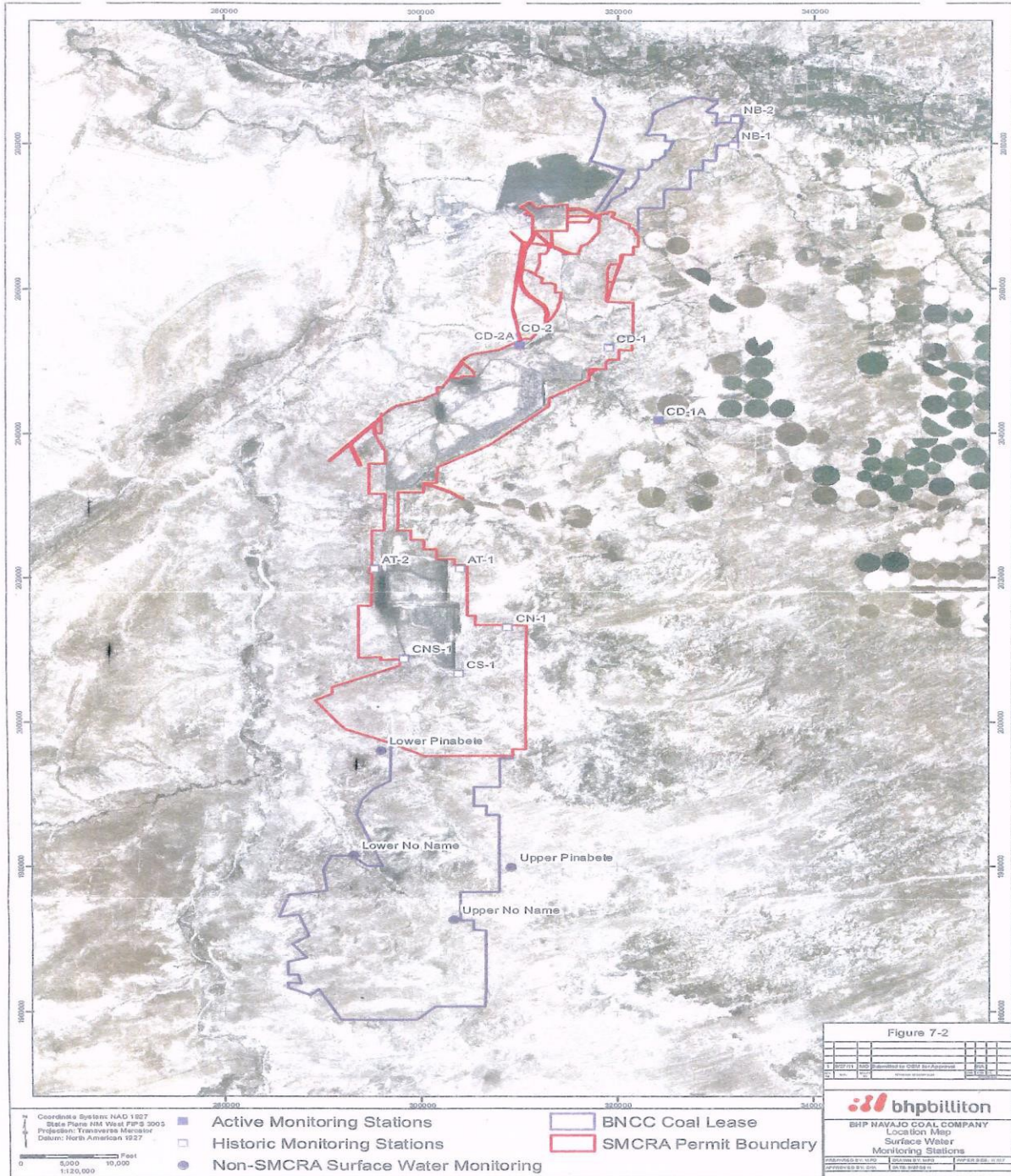
Outfall Number	Latitude Deg.Min.Sec.	Longitude Deg.Min.Sec.	Receiving Water
New Outfall 4-14	36-29-28	108-29-04	Chaco River

**APPENDIX C – “Western Alkaline Reclamation Areas”**

Outfall Number	Latitude Deg.Min.Sec.	Longitude Deg.Min.Sec.	Receiving Water
Existing Outfalls			
004	36-38-15	108-28-44	Chaco River
009	36-36-59	108-30-58	Chaco River
010	36-36-53	108-31-20	Chaco River
011-1	35-33-36	108-32-48	Chaco River
017	36-31-10	108-32-02	Chaco River
018	36-31-31	108-32-07	Chaco River

**ATTACHMENT A: Standard Permit Conditions**

**ATTACHMENT B: Location Map**



**ATTACHMENT C. Summary of Future Modifications**

**Table 1. Proposed Outfall Locations & Conversion Timeframes**

<b>Watershed</b>	<b>Outfall Location</b>	<b>Current Outfall Type</b>	<b>Proposed Outfall Type</b>	<b>Year Outfall Needed</b>
<b>Hosteen</b>	<b>6, 7</b>	<b>Appendix A</b>	<b>Appendix C</b>	<b>2020</b>
<b>North Barber</b>	<b>8</b>	<b>Appendix A</b>	<b>Appendix C</b>	<b>2021</b>
<b>Central Barber</b>	<b>11</b>	<b>Appendix A</b>	<b>Appendix C</b>	<b>2022</b>
<b>Low</b>	<b>New Outfall</b>	<b>N/A</b>	<b>Appendix C</b>	<b>2024</b>
<b>Cottonwood</b>	<b>19, 20, 21, 22, and 23</b>	<b>Appendix A</b>	<b>Appendix C</b>	<b>2025</b>

**Map of Proposed Outfalls in Table 1.**

