CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7014 0150 0000 2452 3734)

REPLY TO: 6WQ-PO

Brian P. Dunfee, Director
Lee Ranch Coal Company
El Segundo Mine
P.O. Box 757
Grants, NM 87020

Re: Modification to the NPDES Permit No. NM0030996, Lee Ranch Coal Mine - El Segundo Mine

Dear Mr. Dunfee:

This package constitutes EPA’s final permit decision for the above referenced facility. Enclosed are the responses to comments received during the public comment period and the final permit. According to EPA regulations at 40 CFR §124.19, within 30 days after a final permit decision has been issued, any person who filed comments on that draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision.

Should you have any questions regarding the final permit, please feel free to contact Tung Nguyen of the NPDES Permits Branch at the above address or by telephone: (214) 665-7153, by fax: (214) 665-2191, or by E-mail: nguyen.tung@epa.gov. Should you have any questions regarding compliance with the conditions of this permit, please contact the Water Enforcement Branch at the above address or by telephone: 214-665-6468.

Sincerely yours,

[Signature]
William K. Honker, P.E.
Director
Water Quality Protection Division

Enclosures

cc w/enclosures:
New Mexico Environment Department
Mark Rochlitz, Senior Engineering Manager, El Segundo Coal Mine
NPDES PERMIT NO. NM0030996
RESPONSE TO COMMENTS

RECEIVED ON THE SUBJECT DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IN ACCORDANCE WITH REGULATIONS LISTED AT 40 CFR §124.17

APPLICANT: Lee Ranch Coal Company
El Segundo Mine
P.O. Box 757
Grants, NM 87020

ISSUING OFFICE: U.S. Environmental Protection Agency
Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

PREPARED BY: Brent Larsen
Chief
Permitting Section (6WQ-PP)
Water Quality Protection Division
VOICE: 214-665-7523
FAX: 214-665-2191
EMAIL: larsen.brent@epa.gov

PERMIT ACTION: Final permit decision and response to comments received on the draft modification to the NPDES permit publicly noticed on September 17, 2015.

DATE PREPARED: December 18, 2015

Unless otherwise stated, citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations, revised as of July 1st, 2015.
In the document that follows, various abbreviations are used. They are as follows:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>4Q3</td>
<td>Lowest four-day average flow rate expected to occur once every three-years</td>
</tr>
<tr>
<td>BAT</td>
<td>Best available technology economically achievable</td>
</tr>
<tr>
<td>BCT</td>
<td>Best conventional pollutant control technology</td>
</tr>
<tr>
<td>BPT</td>
<td>Best practicable control technology currently available</td>
</tr>
<tr>
<td>BMP</td>
<td>Best management plan</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand (five-day unless noted otherwise)</td>
</tr>
<tr>
<td>BPJ</td>
<td>Best professional judgment</td>
</tr>
<tr>
<td>CBOD</td>
<td>Carbonaceous biochemical oxygen demand (five-day unless noted otherwise)</td>
</tr>
<tr>
<td>CD</td>
<td>Critical dilution</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>cfs</td>
<td>Cubic feet per second</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand</td>
</tr>
<tr>
<td>COE</td>
<td>United States Corp of Engineers</td>
</tr>
<tr>
<td>CWA</td>
<td>Clean Water Act</td>
</tr>
<tr>
<td>DMR</td>
<td>Discharge monitoring report</td>
</tr>
<tr>
<td>ELG</td>
<td>Effluent limitation guidelines</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>ESA</td>
<td>Endangered Species Act</td>
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<tr>
<td>FCB</td>
<td>Fecal coliform bacteria</td>
</tr>
<tr>
<td>F&amp;WS</td>
<td>United States Fish and Wildlife Service</td>
</tr>
<tr>
<td>mg/L</td>
<td>Milligrams per liter</td>
</tr>
<tr>
<td>ug/L</td>
<td>Micrograms per liter</td>
</tr>
<tr>
<td>MGD</td>
<td>Million gallons per day</td>
</tr>
<tr>
<td>NMAC</td>
<td>New Mexico Administrative Code</td>
</tr>
<tr>
<td>NMED</td>
<td>New Mexico Environment Department</td>
</tr>
<tr>
<td>NMIP</td>
<td>New Mexico NPDES Permit Implementation Procedures</td>
</tr>
<tr>
<td>NMWQS</td>
<td>New Mexico State Standards for Interstate and Intrastate Surface Waters</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>MQL</td>
<td>Minimum quantification level</td>
</tr>
<tr>
<td>O&amp;G</td>
<td>Oil and grease</td>
</tr>
<tr>
<td>POTW</td>
<td>Publically owned treatment works</td>
</tr>
<tr>
<td>RP</td>
<td>Reasonable potential</td>
</tr>
<tr>
<td>s.u.</td>
<td>Standard units (for parameter pH)</td>
</tr>
<tr>
<td>SWQB</td>
<td>Surface Water Quality Bureau</td>
</tr>
<tr>
<td>TDS</td>
<td>Total dissolved solids</td>
</tr>
<tr>
<td>TMDL</td>
<td>Total maximum daily load</td>
</tr>
<tr>
<td>TRC</td>
<td>Total residual chlorine</td>
</tr>
<tr>
<td>TSS</td>
<td>Total suspended solids</td>
</tr>
<tr>
<td>UAA</td>
<td>Use attainability analysis</td>
</tr>
<tr>
<td>USFWS</td>
<td>United States Fish &amp; Wildlife Service</td>
</tr>
<tr>
<td>USGS</td>
<td>United States Geological Service</td>
</tr>
<tr>
<td>WLA</td>
<td>Wasteload allocation</td>
</tr>
<tr>
<td>WET</td>
<td>Whole effluent toxicity</td>
</tr>
<tr>
<td>WQCC</td>
<td>New Mexico Water Quality Control Commission</td>
</tr>
<tr>
<td>WQMP</td>
<td>Water Quality Management Plan</td>
</tr>
</tbody>
</table>
SUBSTANTIAL CHANGES FROM DRAFT PERMIT

There are changes from the draft NPDES permit publicly noticed on May 31, 2014:

- Additional language regarding Sediment Control Plan has been added to Part I.A.6.a.
- Applicable limit for TDS has been revised.
- Description of the receiving water has been changed to “unclassified” from “classified.”
- A footnote has been added to clarify 30-day average value for E. coli bacteria.
- Dissolved harness has been added in Appendix I.
- Language in Part I.A.6.d has been revised pursuant to comments.

STATE CERTIFICATION


CONDITIONS OF CERTIFICATION

There are no conditions of State certification.

COMMENTS RECEIVED ON THE DRAFT PERMIT


RESPONSE TO COMMENTS

NMED Comments That Are Not Conditions of Certification:

Comment 1 (Update Administrative Record): It is NMED’s understanding that the USEPA termination and void letter for this permit dated May 6, 2015 was subsequently rescinded. For purposes of updating the administrative record for this permit, USEPA should provide specific information on the date and details of the permit termination being rescinded in USEPA’s Response to Comments.

Response 1: EPA rescinded its Notice of Termination to the permittee and agreed that the permit had not been terminated and is not void in a publicly available document filed with the Environmental Appeals Board. The document may be found at: http://yosemite.epa.gov/oae/EAB_Web_Docket.nsf/Filings%20By%20Appeal%20Number/9E3F775FC3E7BB3585257EA40060972A/$File/Motion%20to%20Stay.pdf

Comment 2 (Information on Most Current Colorado River Basin Water Quality Standards for Salinity)
USEPA’s Statement of Basis for the proposed permit modification prepared September 17, 2015 did not provide a citation or reference for the Water Quality Standards for Salinity, Colorado River System used in their decision-making for Total Dissolved Solids (TDS) loading effluent limitations. NMED provides the following information for the record and to provide background for Comments 3, 4, 5 and 6 below.

USEPA Response to Comments prepared August 14, 2014 described that the 2011 Review of the Water Quality Standards for Salinity, Colorado River System was used to develop permit limits of the Final Permit issued September 30, 2014. Following the USEPA’s authorization of the Final Permit, the Colorado River Basin Salinity Control Forum updated and adopted a new review. The October 2014 Review of the Water Quality Standards for Salinity, Colorado River System was adopted on October 29, 2014 and is available at: http://coloradoriversalinity.org/docs/2014%20Final%20REVIEW%20-complete.pdf.

Implementation of the policy and program in the most current October 2014 Review is outlined in the document’s Appendix B. Appendix B, Policy for Implementation of Colorado River Salinity Standards through the NPDES Permit Program adopted by the Colorado River Basin Salinity Control Forum is dated February 28, 1977, Revised October 30, 2002. In Appendix B, Section I.A.1.a.ii, Page B-7, the permitting authority, in this case USEPA, may permit the discharge of salt “In cases where the salt loading to the Colorado River from the new construction is less than one ton per day or 366 tons per year.” Page B-4 of the October 2014 Review states “Operations or individual discharges that qualify for the freshwater waiver shall not be subject to any further limitation on salt loading under this policy.” USEPA required a TDS effluent limitation of <2,000 lbs/day in the 2014 Final Permit. In USEPA’s 2015 proposed draft modification, the <2,000 lbs/day effluent limitation was replaced by a TDS effluent limitation of <366 “ton/year.”

Response 2:
Comment noted for the record.

Comment 3 (Salinity TDS Loading Effluent Limitation, Description):
Part I.A.5 (Outfalls 1 to 41) of the proposed permit modification appears to have an incorrect qualifier or typo in the effluent limitation and monitoring table (2nd column). For a total TDS effluent limitation of <366 “ton/year,” the qualifier “30-day average” is not applicable. USEPA should delete the qualifier from the 2nd column of the table in the Final Permit.

Response 3:
Final permit has been modified to correctly refer to the TDS limit as an Annual Maximum and a footnote has been added to clarify how the total loading is to be calculated.

Comment 4 (Salinity TDS Loading Effluent Limitation, Calculation for Reporting Purposes):
USEPA Fact Sheet dated August 14, 2014 provided calculation information for reporting an effluent limitation of <2,000 lbs/day that would not be applicable for the proposed effluent limitations of <366 “ton/year.” USEPA should provide in USEPA Response to Comments, or preferably in the Final Permit, calculation information for reporting the TDS loading effluent limitation in “ton/year.” Besides updating the unit conversions, USEPA’s instructions and/or conditions in the Final Permit should provide information on using the number of days of discharge in the “ton/year” calculation.

Response 4:
The final permit clarifies how to calculate the cumulative annual loading. See also response to comment 3 above. The loading for all discharges with TDS concentrations greater than 500 mg/l are added
together to calculate the annual TDS load. TDS concentrations of 500 mg/l or less are considered “fresh water” and are not included in the annual TDS loading calculations.

Comment 5 (Salinity TDS Loading Effluent Limitation, Measurement Frequency):
USEPA calculation instructions and/or conditions in the Final Permit recommended in NMED Comment 4 should include information when the frequency of representative sample collection and analytical monitoring is less than the number of days of discharge (e.g., proposed modified permit allow one analytical sample result concentration to represent discharges from the entire monitoring period). Alternatively, and preferably, USEPA should change the measurement frequency from quarterly (assumed to be 1/qtr) to 1/day during discharge. For a total calculation in “ton/year,” should the Permittee decide to monitor more frequently than required by the proposed modified permit there may be less difficulty in properly determining and documenting which analytical result represents specific days of discharge for the calculation and reporting of compliance with the total yearly loading effluent limitation.

Response 5:
The final permit has been modified to require monitoring for each day of discharge. If discharges occur at more than one outfall at the same time, a representative sample from those outfalls may be used. The same permit language used in Part I.A.1., Footnote *4 regarding representative sampling has also been included.

Comment 6 (Salinity TDS Loading Effluent Limitation, Correct Units):
USEPA should correct the TDS loading effluent limitation units from “ton/year” to tons/year in the Final Permit.

Response 6:
Final permit has been corrected as suggested. The limit is a cumulative maximum of 366 tons per year of TDS from the facility.

Comment 7 (Western Alkaline Coal Mining Operation, Document Approval of Sediment Control Plan by USEPA):
It is NMED understanding that when USEPA issues the Final Permit, then USEPA will have approved the Permittee’s submitted site specific Sediment Control Plan or SCP, in accordance with applicable sections of Western Alkaline Coal Mining Operation regulations in 40 CFR § 434.80-85; and that the SCP would be functionally equivalent to portions of the Permittee’s Coal Mining Permit approved by the State of New Mexico Mining and Mineral Division (MMD). The Permittee’s coal mining permit is approved by MMD. The SCP is approved by the USEPA per federal Clean Water Act regulations. For purposes of updating the administrative record and/or documentation, USEPA should provide specific information or a statement that confirms that the submitted SCP is approved by USEPA upon the effective date of the permit in USEPA’s Response to Comments and/or Final Permit.

Response 7:
Attachment D includes the currently approved SCP, which consists of portions of the NM MMD permit requirements that correspond to the NPDES SCP requirements.

Comment 8 (Western Alkaline Coal Mining Operation, Incomplete Sentence):
Permit language is missing information on Page 8 of Part I of the proposed modified permit. USEPA should edit and/or complete the following in the Final Permit: “v) are no less effective than those in any
revised SCP approved by the" As discussed in NMED Comment 7, a revised SCP would be approved by USEPA. Should the permit language in the proposed modified permit have intended to refer to the coal mining permit, then a revised mining permit would be approved by MMD.

Response 8:
The missing permit language has been corrected to require that revisions to the SCP for the NPDES permit’s purposes be not less stringent than those approved by NMMMD.

Comment 9 (Permittee’s Comments to USEPA):
NMED received a copy of the Permittee’s comments to USEPA dated October 19, 2015 concerning Part I.A.6.f and Part I.A.6.g, which also recommend changes to Part I.A.6.e of the proposed modified permit. Part I.A.6.e, f and g of the proposed modified permit state: [commentor quotes language from the proposed permit modification].

The Permittee’s comments to USEPA state “LRCC therefore proposes the requirement outlined under Part I.6.f (sic) should be replaced as follows: “Inspections and reporting of the SCP measures and implementation shall be conducted in accordance with NMMMD requirements.” The Permittee’s comments also state “LRCC therefore requests that Part I.6.g (sic) be deleted and that the following be added to the end of Part I.6.e (sic): “Copies of such revised SCPS shall be submitted to NMED at the time submitted to EPA and NMMMD herein.” NMED offers the following comments to assist USEPA in developing Final Permit language for Part I.A.6.f and Part I.A.6.g: (EPA responses follow each sub-comment 9a-9c, below)

Comment 9a: USEPA should consider changes to the first sentence of Part I.A.6.f. The first sentence in Part I.A.6.f of the Final Permit could be clarified, as follows, or with something similar with language specific to this Permittee’s coal mining permit: f) Conduct inspections to ensure that the Permittee continues to design, implement and maintain BMPs in the manner specified in the SCP, which includes the drainage areas associated with the SCP, at a frequency in accordance with the site-specific MMD coal mining permit requirements. At a minimum, an inspection of the BMPs specified in the SCP, including associated drainage areas, must be conducted at least once per year. Individual inspection records corresponding to MMD mining permit required inspection reports, which may include separate inspection documentation over several days, or separate inspection reports of individual BMPs, including ponds, may be attached or specifically referenced in the inspection report for purposes of this NPDES permit. Inspection records and reports required by this NPDES permit are subject to Standard Conditions of this Permit, including Part III.A.7 (Duty to Provide Information) and Part III.C.3 (Retention of Records). Note that Part I.E and Part III of the permit apply without specific cross reference in Part I.A.6.

Response 9a:
Parts I.A.6.f and g have been combined in the final permit. Inspections and reporting on the SCP controls and implementation will be conducted in accordance with the current NMMMD permit requirements and any additional requirements in the approved SCP. The Permittee will submit annual pond certification reports, NMMMD mine inspection reports, and any additional reports required by the EPA approved SCP to EPA and NMED annually. Report documents prepared for NMMMD may be submitted to EPA and NMED to satisfy applicable reporting requirements of the NPDES permit.

Comment 9b:
The second and third sentence in Part I.A.6.f should remain because the conditions provide minimum record-keeping requirements that differ slightly from similar Standard Conditions in Part III of the permit.

Response 9b:
See Response 9a above.

Comment 9c:
The last sentence in Part I.A.6.g should be replaced with the following clarification or something similar (perhaps in a separate section) in the Final Permit: “Copies of the SCP annual report and revised SCP are documents subject to Part I.E and reports subject to Part III.D.4.”

Response 9c:
See Response 9a above.

Comment 9d:
USEPA should retain the requirement of an SCP Annual Report in Part I.A.6.g of the Final Permit to facilitate administration and ensure compliance with NPDES requirements. USEPA should clarify the purpose and need and provide specific requirements of the Annual Report in USEPA’s Response to Comments and/or the Final Permit. Specific minimum requirements or examples of the information to be provided in the Annual Report should include signature and certification requirements. In addition to certification requirements for submitted reports in Part III of the permit, USEPA could provide example statements or additional guidance to the Permittee on what type of information is needed to meet the requirements of an Annual Report.

Response 9d:
The final permit clarifies that reports done for compliance with the mining permit may be used to satisfy corresponding reporting requirements of this permit. Part III.D.11 of the permit establishes signatory and certification requirements for all reports submitted to the Director. This could be accomplished by a cover letter to the report including the applicable certification and signature.

Peabody Energy Comments on behalf of Lee Ranch Coal Company.

Comment 10:
Comment section titled “The Proposed Revisions Are Contrary to the LRCC/EPA Settlement Agreement”

Response 10:
The Settlement Agreement issues to date have been addressed by USEPA, including by taking this final action modifying the permit.

Comment 11:
Comment and Alternative Terms Part 1.6.f.

Response 11:
Comments and the proposed replacement noted for the record. EPA believes the final permit Part 1.6.f modifications address the permittee’s concerns.
Comment 12:
Comment and Alternative Terms Part 1.6.g.

Response 12:
Comments and the proposed replacement noted for the record. EPA believes the final permit Part 1.6.f modifications address the permittee’s concerns.
AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

Lee Ranch Coal Company
El Segundo Mine
P.O. Box 757
Grants, NM 87020

is authorized to discharge from a facility located at 35 miles north of Milan, off State Road 509, Grants, in McKinley County, New Mexico. Discharges from multiple outfalls are to receiving water named Kim-me-ni-oli Valley Tributary, thence into Chaco River, a tributary of San Juan River (about 100 miles north-west of El Segundo Mine) and to Inditos Draw, a tributary of Vought Draw, which flows into Arroyo Chico, then to Rio Puerco (about 60 miles southeast the mine area), a tributary of the Rio Grande River. Kim-me-ni-oli Valley Tributary and Inditos Draw are unclassified receiving waters under 20.6.4.97 NMAC.

The discharges are in accordance with this cover page and the effluent limitations, monitoring requirements and other conditions set forth in Part I, Part II, III and Part IV.

This permit supersedes and replaces NPDES Permit No. NM0030996 with an effective date of November 1, 2014.

This permit shall become effective on JAN 1 8 2016

This permit and the authorization to discharge shall expire at midnight, October 31, 2019.

Issued on December 18, 2015

Prepared by

[Signatures]

William K. Honker, P.E.
Director
Water Quality Protection Division (6WQ)

[Signature]

Tung Nguyen
Environmental Engineer
Permits & Technical Section (6WQ-PP)
DOCUMENT ABBREVIATIONS

In the document that follows, various abbreviations are used. They are as follows:

4Q3  Lowest four-day average flow rate expected to occur once every three-years
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lbs  Pounds
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NMWQS  New Mexico State Standards for Interstate and Intrastate Surface Waters
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RP  Reasonable potential
SS  Settleable solids
SIC  Standard industrial classification
s.u.  Standard units (for parameter pH)
SWQB  Surface Water Quality Bureau
TDS  Total dissolved solids
TMDL  Total maximum daily load
TRC  Total residual chlorine
TSS  Total suspended solids
UAA  Use attainability analysis
USGS  United States Geological Service
WLA  Wasteload allocation
WET  Whole effluent toxicity
WQCC  New Mexico Water Quality Control Commission
WQMP  Water Quality Management Plan
WWTP  Wastewater treatment plan
PART I – REQUIREMENTS FOR NPDES PERMITS

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. Coal Preparation & Associated Areas Outfalls

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge runoff from outfalls (sediment ponds) listed in Attachment A – “Coal Preparation & Associated Areas” to Kim-me-ni-oli Valley Tributary. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLLUTANT</td>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 s.u.</td>
<td>9.0 s.u.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLLUTANT</td>
<td>lbs/day, unless noted</td>
<td>mg/L, unless noted (+1)</td>
</tr>
<tr>
<td>Flow</td>
<td>30-DAY AVG</td>
<td>7-DAY AVG</td>
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<td>Report, MGD</td>
<td>N/A</td>
</tr>
<tr>
<td>TSS</td>
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<td>35</td>
</tr>
<tr>
<td>Total Iron</td>
<td>N/A</td>
<td>3.0</td>
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</table>

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE MONITORING</th>
<th>MONITORING REQUIREMENTS</th>
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<tr>
<td>WHOLE EFFLUENT TOXICITY TESTING</td>
<td>30-DAY AVG</td>
<td>48-HR MINIMUM</td>
</tr>
<tr>
<td>Daphnia pulex</td>
<td>Report</td>
<td>Report</td>
</tr>
</tbody>
</table>

Footnotes:
*1 See Appendix A of Part II of the permit for minimum quantification limits.
*2 The flow can be estimated using best engineering judgment; e.g., calculation of discharge volume over discharge duration.
*3 Monitoring and reporting requirements begin on the effective date of this permit. See Part II of the permit for WET testing requirements for additional WET monitoring and reporting conditions.
*4 If discharges occur at more than one outfall at the same time, a representative sample from these specific (Attachment B) outfalls may be used. If samples are collected from a representative point, the permittee shall specify in the monitoring narrative: the outfalls being represented; the rationale for outfalls being representative including a description of the control measures at each outfall.
2. Alkaline Mine Drainage Outfalls

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge runoff from outfalls (sediment ponds) listed in Attachment B - “Alkaline Mine Drainage” to Kim-me-ni-oli Valley Tributary and Inditos Draw. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
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<tr>
<td>POLLUTANT</td>
<td>MINIMUM</td>
<td>MAXIMUM</td>
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<tr>
<td>pH</td>
<td>6.0 s.u.</td>
<td>9.0 s.u.</td>
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<td>EFFLUENT CHARACTERISTICS</td>
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<tr>
<td>POLLUTANT</td>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>Flow</td>
<td>N/A</td>
<td>Report, MGD</td>
</tr>
<tr>
<td>TSS</td>
<td>N/A</td>
<td>35</td>
</tr>
<tr>
<td>Total Iron</td>
<td>N/A</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Footnotes:**

*1 See Appendix A of Part II of the permit for minimum quantification limits.

*2 The flow can be estimated using best engineering judgment; e.g., calculation of discharge volume over discharge duration.

*3 Monitoring and reporting requirements begin on the effective date of this permit. See Part II of the permit for WET testing requirements for additional WET monitoring and reporting conditions.

*4 If discharges occur at more than one outfall at the same time, a representative sample from these specific (Attachment B) outfalls may be used. If samples are collected from a representative point, the permittee shall specify in the monitoring narrative: the outfalls being represented; the rationale for outfalls being representative including a description of the control measures at each outfall.
3. Sewage Lagoon Outfall (Outfall 18)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge treated wastewater from Outfall 18 to Kim-me-ni-oli Valley Tributary. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MINIMUM</td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 s.u.</td>
<td>9.0 s.u.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFLUENT CHARACTERISTICS</th>
<th>DISCHARGE LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs/day, unless noted</td>
<td>mg/L, unless noted (*1)</td>
</tr>
<tr>
<td>Flow</td>
<td>Report MGD</td>
<td>Report MGD</td>
</tr>
<tr>
<td>BOD\textsubscript{5}</td>
<td>N/A</td>
<td>30</td>
</tr>
<tr>
<td>TSS</td>
<td>N/A</td>
<td>30</td>
</tr>
<tr>
<td>E. coli bacteria</td>
<td>N/A</td>
<td>548 cfu/100 ml (*8)</td>
</tr>
<tr>
<td>TRC</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WHOLE EFFLUENT TOXICITY TESTING</th>
<th>DISCHARGE MONITORING</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-HR ACUTE NOEC FRESHWATER (*6)</td>
<td>30-DAY AVG</td>
<td>48-HR MINIMUM</td>
</tr>
<tr>
<td>Daphnia pulex</td>
<td>Report</td>
<td>Report</td>
</tr>
</tbody>
</table>

Footnotes:
*1 See Appendix A of Part II of the permit for minimum quantification limits.
*2 Percent removal is calculated using the following equation:
\[ \frac{[\text{average monthly influent concentration (mg/L)}] - [\text{average monthly effluent concentration (mg/L)}]}{[\text{average monthly influent concentration (mg/L)}]} \times 100.
*3 The flow can be estimated using best engineering judgment, including calculation of discharge volume over discharge duration.
*4 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
*5 For instantaneous grab, sample shall be analyzed within 15 minutes of collection.
*6 Monitoring and reporting requirements begin on the effective date of this permit. See Part II of the permit for WET testing requirements for additional WET monitoring and reporting conditions.
*7 The sample collection shall take place when discharge occurs.

*8 The 30 day-average for E. coli bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.
4. Discharge Resulting From Precipitation Events

a. During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge runoff from outfalls listed in Attachment A – “Coal Preparation & Associated Areas” and Attachment B – “Alkaline Mine Drainage” resulting from precipitation events less than or equal to a 10-year, 24-hour precipitation event to the receiving waters. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

During precipitation events, samples may be collected from a sampling point representative of the type of discharge, rather than from each point of discharge. If samples are collected from a representative point, the permittee shall specify in the monitoring narrative: the outfalls being represented; the rationale for outfalls being representative including a description of the control measures at each outfall. The permittee shall have the burden of proof the discharge was caused by the precipitation event pursuant to 40 CFR 434.63(e).

<table>
<thead>
<tr>
<th>EFFLUENT PARAMETER</th>
<th>UNIT</th>
<th>EFFLUENT LIMITATION</th>
<th>MEASUREMENT FREQUENCY</th>
<th>SAMPLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>Report MGD</td>
<td>Report MGD</td>
<td>Daily</td>
<td>Estimated (*)</td>
</tr>
<tr>
<td>pH</td>
<td>s.u.</td>
<td>6.0 - 9.0</td>
<td>Daily</td>
<td>Instantaneous</td>
</tr>
<tr>
<td>SS (*3)</td>
<td>ml/l</td>
<td>0.5</td>
<td>Daily</td>
<td>Grab (*)</td>
</tr>
</tbody>
</table>

Footnotes:
*1 The flow can be estimated using best engineering judgment; e.g., calculation of discharge volume over discharge duration.
*2 For instantaneous grab, sample shall be analyzed within 15 minutes of collection.
*3 Procedure and method of detection limit for measurement of settleable solids shall be in accordance with 40 CFR 434.64.
b. During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge runoff from outfalls listed in Attachment A – “Coal Preparation & Associated Areas” and Attachment B – “Alkaline Mine Drainage” resulting from precipitation events greater than a 10-year, 24-hour precipitation event to the receiving waters. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

During precipitation events, samples may be collected from a sampling point representative of the type of discharge, rather than from each point of discharge. If samples are collected from a representative point, the permittee shall specify in the monitoring narrative: the outfalls being represented; the rationale for outfalls being representative including a description of the control measures at each outfall. The permittee shall have the burden of proof the discharge was caused by the precipitation event pursuant to 40 CFR 434.63(c).

<table>
<thead>
<tr>
<th>EFFLUENT PARAMETER</th>
<th>UNIT</th>
<th>EFFLUENT LIMITATION</th>
<th>MEASUREMENT FREQUENCY</th>
<th>SAMPLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>Report MGD</td>
<td>Report MGD</td>
<td>Daily</td>
<td>Estimated (*1)</td>
</tr>
<tr>
<td>pH</td>
<td>s.u.</td>
<td>6.0 – 9.0</td>
<td>Daily</td>
<td>Instantaneous Grab (*2)</td>
</tr>
</tbody>
</table>

Footnotes:
*1 The flow can be estimated using best engineering judgment; e.g., calculation of discharge volume over discharge duration.
*2 For instantaneous grab, sample shall be analyzed within 15 minutes of collection.
5. Outfalls 1 to 41, Including Sewage Lagoon Outfall (18)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted), the permittee is authorized to discharge runoff and treated wastewater from Outfalls 1 to 41 to Kim-me-ni-oli Valley Tributary. Such discharges shall be limited and monitored by the permittee and reported as specified below. Samples shall be collected prior to mixing with other waste source stream and/or discharge to surface waters.

<table>
<thead>
<tr>
<th>EFFLUENT PARAMETER</th>
<th>EFFLUENT LIMITATION, Annual Max.</th>
<th>CONCENTRATION, 30-day average (mg/L)</th>
<th>CONCENTRATION, daily max (mg/L)</th>
<th>MEASUREMENT FREQUENCY</th>
<th>SAMPLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDS</td>
<td>&lt; 366 tons/year*</td>
<td>Report</td>
<td>Report</td>
<td>Once per Day**</td>
<td>Grab</td>
</tr>
</tbody>
</table>

*Totaled amount from outfall discharges. Cumulative load is the sum of all TDS loads for all outfalls over the course of a calendar year. Load for an individual outfall for a discharge is calculated as the TDS concentration (mg/L) * total discharge flow (MG) * 8.34 divided by 2000 lbs/ton. For calculation of the cumulative loads, any discharges containing 500 mg/L or less TDS is considered fresh water and need not be included in the loadings calculations.

** If more than one outfall is discharging on a particular day, sample results from a discharge representative of all discharges occurring that day may be used for loading calculations at all outfalls discharging. If samples are collected from a representative point, the permittee shall specify in the monitoring narrative: the outfalls being represented; the rationale for outfalls being representative including a description of the control measures at each outfall.
6. Western Alkaline Coal Mining Operation

The permittee shall implement and update as necessary an approved Sediment Control Plan (SCP) for all reclamation areas, brushing and grubbing areas, topsoil stockpiling areas and regraded areas as defined under Western Alkaline Coal Mining Rule at 40 CFR 434.80. The SCP, including all authorized updates, is incorporated into the permit as an effluent limitation as required by 40 CFR 434.82(a). As further set forth herein, for areas containing commingled drainage, it is understood that the permittee will comply with the Western Alkaline Coal Mining Rule by utilizing sediment ponds, and other measures set forth in its SCI approved by the Mining and Minerals Division of the Energy Minerals and Natural Resources Department for the State of New Mexico (NMMMD), required for outfalls set forth in Attachments A and B under the "alkaline mine drainage" requirements, 40 CFR Part 434, Subpart D, and "coal preparation plant and coal preparation plant associated areas," 40 CFR Part 434, Subpart B (collectively, "Active Mining"). After Active Mining ceases and 100% of the mining disturbed area in the drainage area to an outfall meets the definition of "western alkaline reclamation, brushing and grubbing, topsoil stockpiling, and regraded areas," 40 CFR 434.80, a revised SCP will be submitted by the permittee to EPA and the NMMMD for approval to authorize the reclassification of such outfalls and the potential removal of sediment ponds.

a) The SCP shall be designed to prevent an increase in the average annual sediment yield from pre-mined, undisturbed conditions. The SCP shall identify best management practices (BMPs) and also shall describe design specifications, construction specifications, maintenance schedules, criteria for inspection, as well as expected performance and longevity of the best management practices. Where reclamation areas, brushing and grubbing areas, topsoil stockpiling areas and regraded areas are located in the same drainage area as active mining operations and coal preparation plant areas, the SCP may utilize and incorporate controls also used to comply with permit limitations applicable to the discharges from the active mining operations and coal preparation plant areas, including sediment ponds.

b) The permittee shall use the same watershed model that was, or will be, used to acquire the NMMMD permit. Where drainage subject to the SCI comingles with and is treated by sediment ponds designed for treatment of active mining or coal preparation plant area drainage and wastewater, modeling of the sediment pond removal efficiency and area-specific BMPs may be used to demonstrate that average annual sediment yields from reclamation areas, brushing and grubbing areas, topsoil stockpiling areas and regraded areas in the co-mingled drainage area will not be greater than the sediment yield levels from pre-mined, undisturbed conditions. Watershed modeling for desired purposes of sediment control structures in these active mining or coal preparation plant areas based on sediment storage volume for the design event in accordance with NMMMD regulations may be used to meet average annual sediment yield modeling requirements.

c) The permittee has prepared and submitted a sediment control plan to the NMMMD, which was approved by the NMMMD as part of permittee's application for NMMMD Permit No. 2010-01. The SCP is designed so as to prevent an increase in the average annual sediment yield from pre-mined, undisturbed conditions. The permittee used SEDCAD watershed modeling in support of its NMMMD permit application, which demonstrates the effectiveness of the SCP. The SCP identifies BMI's, including sediment ponds, and describes design specifications, construction specifications, maintenance schedules, criteria for inspection, as well as expected performance and longevity of the BMPs. The permittee shall design, implement, and maintain BMPs in the
manner specified in the SCP throughout the permit term. The approved SCP in effect as of the date of permit issuance consists of the portions of the NMMMD permit provided by LRCC and included as Attachment D of this permit. For the purposes of this permit, the requirement to implement the SCP applies to reclamation areas, brushing and grubbing areas, topsoil stockpiling areas and regraded areas and discharges subject to the WACM Effluent Guidelines. EPA recognizes that the Permittee’s desire to use portions of the NMMMD permit as their SCP results in some portions of the SCP appearing to apply to areas not subject to the WACM Effluent Guideline Requirement for a SCP. The permittee is not required to implement the SCP on internal areas of a drainage area that are not reclamation areas, brushing and grubbing areas, topsoil stockpiling areas or regraded areas. The Permittee’s SCP attached to this permit as Attachment D, and incorporated herein by reference, is the current EPA approved SCP.

d) Operational changes may be made to an SCP without prior approval by EPA provided that the revisions:
✓ do not add or remove outfalls or sediment ponds; and
✓ do not relocate an existing outfall to a different receiving water segment and not more than the 15 seconds of latitude/longitude from the location at the time of permit issuance (approximately 1518 feet-the level of accuracy required for outfall location in NPDES permit applications); and
✓ implement sediment controls that are as effective or more effective than those in the originally approved SCP for any new or expanded reclamation areas, brushing and grubbing areas, topsoil stockpiling areas and regraded areas or replace ineffective controls with ones that will be effective in meeting the original intent of the SCP; and
✓ continue to route all drainage through sediment ponds; and
✓ are no less effective than those in any revised SCP approved by the NMMMD.

e) Once an outfall ceases to receive runoff from "alkaline mine drainage" areas (as defined under 40 CFR Part 434, Subpart D) and "coal preparation plant and coal preparation plant associated areas" (as defined under 40 CFR Part 434, Subpart B) and 100% of the drainage area to an outfall that has been disturbed by mining meets the definition of "western alkaline reclamation, brushing and grubbing, topsoil stockpiling, and regraded areas" (as defined at 40 CFR 434.80), a revised SCP and watershed model meeting the requirements contained at 40 CFR Part 434.82 shall be submitted to and approved by EPA and the NMMMD before an outfall may be reclassified and a sediment pond that served as a BMP under a SCP may be removed and the revised SCP becomes effective. If the revised SCP is approved by the NMMMD, the SCP is considered to meet EPA approval, unless EPA disapproves it within 60 days after receiving the revised SCP. The Permittee will also send any EPA approved SCP revisions to NMED. The approval of a revised SCP to address the reclassification of an outfall to western alkaline coal mining (as defined under 40 C.F.R. Subpart H) or the termination of an outfall will be considered a minor modification to the permit as described in Part II.C of this permit.

f) Inspections and reporting on the SCP controls and implementation shall be conducted in accordance with the current NMMMD requirements and any requirements in the SCP. The Permittee shall submit annual pond certification reports, NMMMD mine inspection reports, and any reports required by the SCP to EPA and NMED annually. Reports prepared by the Permittee for compliance with NMMMD requirements may be used to satisfy any corresponding reporting requirements of the SCP.
7. Appendix I - Additional Pollutants Monitoring Requirements

The permittee shall monitor all pollutants below at each outfall listed in Attachment A – “Coal Preparation & Associated Areas” and Attachment B – “Alkaline Mine Drainage” once per calendar year when discharge occurs. This monitoring requirement is not applicable to Sewage Lagoon Outfall.
### POLLUTANT | CAS NUMBER
--- | ---
Aluminum, total recoverable | 7429-90-5
Antimony, dissolved | 7440-36-0
Arsenic, dissolved | 7440-38-2
Boron, dissolved | 7440-42-8
Cadmium, dissolved | 7440-43-9
Chlorine residual | 7782-50-5
Chromium III, dissolved | 16605-83-1
Chromium VI, dissolved | 18540-29-9
Chromium, dissolved | 7440-47-3
Cobalt, dissolved | 7440-48-4
Copper, dissolved | 7440-50-8
Cyanide, total recoverable | 57-12-5
Lead, dissolved | 7439-92-1
Manganese, dissolved | 7439-96-5
Mercury | 7439-97-6
Mercury, dissolved | 7439-97-6
Molybdenum, total recoverable | 7439-98-7
Nickel, dissolved | 7440-02-0
Nitrite + Nitrate | 
Selenium, dissolved | 7782-49-2
Selenium, total recoverable | 7762-49-2
Silver, dissolved | 7440-22-4
Thallium, dissolved | 7440-28-0
Vanadium, dissolved | 7440-62-2
Zinc, dissolved | 7440-66-6
Adjusted gross alpha | 
Radium 226 + Radium 228 | 
Tritium | 
Aldrin | 309-00-2
Benzopyrene | 50-32-8
Gamma-BHC (Lindane) | 58-89-9
Chlordane | 57-74-9
Diazinon | 333-41-5
4,4'-DDT and derivatives | 
Dieldrin | 60-57-1
Dioxin | 
aalpha-Endosulfan | 959-98-8
beta-Endosulfan | 33213-65-9
Endrin | 72-20-8
Heptachlor | 76-44-8
Heptachlor epoxide | 1024-57-3
Hexachlorobenzene | 118-74-1
Nonylphenol | 84852-15-3
Polychlorinated Biphenyls (PCBs) | 1336-36-3
Pentachlorophenol | 87-86-5
Tetrachloroethylene | 127-18-4
Toxaphene | 8001-35-2
Dissolved harness (as CaCO₃) | 

8. Floating Solids, Visible Foam and/or Oils

There shall be no discharge of floating solids or visible foam in other than trace amounts.
There shall be no discharge of visible films of oil, globules of oil, grease or solids in or on the water, or coatings on stream banks.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the points of discharge from the associate sediment ponds prior to the receiving stream.

9. Human Health Data Requirements

The permittee shall monitor all pollutants in Section V of Form 2C at each outfall listed in Attachment A – “Coal Preparation & Associated Areas” and Attachment B – “Alkaline Mine Drainage” once per permit term when discharge occurs. All the pollutants shall be tested. This monitoring requirement is not applicable to Sewage Lagoon Outfall.

10. Toxics

No discharge shall contain any substance, including but not limited to selenium, DDT, PCB’s and dioxin, at a level which, when added to background concentration, can lead to bioaccumulation to toxic levels in any animal species.

B. SCHEDULES OF COMPLIANCE

None

C. MONITORING AND REPORTING

Monitoring results shall be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of the paper DMR Form. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR@epa.gov in-box for further instructions. Until you are approved for Net DMR, you shall report on the Discharge Monitoring Report (DMR) Form EPA. No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D. to the EPA and other agencies as required (See Part III.D.IV of the permit). Reports shall be submitted quarterly.

1. Reporting periods shall end on the last day of the months March, June, September, and December.

2. The permittee is required to submit regular quarterly reports as described above postmarked no later than the 28th day of the month following each reporting period.

If there is no discharge at Outfalls during the sampling month, place an "X" in the NO DISCHARGE box located in the upper right corner of the Discharge Monitoring Report.

D. SMCRA BOND RELEASE

When the appropriate regulatory authority returns a reclamation or performance bond based upon its determination that reclamation work has been satisfactorily completed on a watershed or a specific part
of a disturbed area, the permittee may request to terminate the corresponding NPDES discharge points to that specific drainage area. The permittee must also demonstrate that the Phase III bond for that particular drainage area has been released before permit coverage can be terminated.

E. DOCUMENTS AND APPLICATION FOR RENEWAL

A copy of documents, required reports and application for permit renewal shall be sent to New Mexico Environment Department (NMED) at the mailing address listed in Part III.D.4 of this permit.
PART II - OTHER CONDITIONS

A. MINIMUM QUANTIFICATION LEVEL (MQL)

See list of MQL’s at Appendix A of Part II below. For pollutants listed on Appendix A of Part II below with MQL’s, analyses shall be performed to the listed MQL. If any individual analytical test result is less than the MQL listed, a value of zero (0) may be used for that pollutant result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

In addition, any additional pollutant sampling for purposes of this permit, including renewal applications or any other reporting, shall be tested to the MQL shown on the attached Appendix A of Part II.

The permittee may develop an effluent specific method detection limit (MDL) in accordance with Appendix B to 40 CFR §136. For any pollutant for which the permittee determines an effluent specific MDL, the permittee shall send to the EPA Region 6 NPDES Permits Branch (6WQ-P) a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent specific MDL was correctly calculated. An effluent specific MQL shall be determined in accordance with the following calculation:

\[ \text{MQL} = 3.3 \times \text{MDL} \]

Upon written approval by the EPA Region 6 NPDES Permits Branch (6WQ-P), the effluent specific MQL may be utilized by the permittee for all future DMR reporting requirements until/unless changes are required for adoption of a lower MQL.

B. 24-HOUR ORAL REPORTING: DAILY MAXIMUM LIMITATION VIOLATIONS

Under the provisions of Part III.D.7.b.(3) of this permit, violations of daily maximum limitations for the following pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas, and concurrently to NMED within 24 hours from the time the permittee becomes aware of the violation followed by a written report in five days.

Total Iron

C. PERMIT MODIFICATION AND REOPENER

In accordance with [40 CFR Part 122.44(d)], the permit may be reopened and modified during the life of the permit if relevant portions of New Mexico’s Water Quality Standards for Interstate and Intrastate Streams are revised, or new State water quality standards are established and/or remanded by the New Mexico Water Quality Control Commission.

In accordance with [40 CFR Part 122.62(s)(2)], the permit may be reopened and modified if new information is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance. Permit modifications shall reflect the results of any of these actions and shall follow regulations listed at [40 CFR Part 124.5].

This permit authorizes the discharge of wastewater from over 52 outfalls in 3 distinct subcategories. Throughout the permit term, as mine operations continue in a linear fashion, new outfall locations may
become necessary to treat runoff and other outfalls may need to be authorized under a different subcategory. Therefore, EPA may modify the list of Outfalls in the Attachments during the permit term to add, terminate or reclassify a discharge that occurs during the anticipating course of the existing mining activities. This will be accomplished thru a minor modification of the permit in accordance with 40 CFR Part 122.63. The permit may be reopened to authorize new outfalls for an area not currently being mined through a major modification to the existing permit 40 CFR Part 122.63.

D. WHOLE EFFLUENT TOXICITY TESTING (48-HR ACCUTE NOEC FRESHWATER)

It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests shall be completed unless specific authority has been granted by EPA Region 6 or the State NPDES permitting authority.

1. SCOPE AND METHODOLOGY

   a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

      APPLICABLE TO FINAL OUTFALL(S):
      All Outfalls in Attachments A, B & C

      REPORTED ON DMR AS FINAL OUTFALL:
      All Outfalls in Attachments A, B & C

      CRITICAL DILUTION (%):
      100

      EFFLUENT DILUTION SERIES (%):
      32, 42, 56, 75 and 100

      COMPOSITE SAMPLE TYPE:
      Defined at PART I

      TEST SPECIES/METHODS:
      40 CFR Part 136

      Daphnia pulex acute static renewal 48-hour definitive toxicity test using EPA 821-R-02-012, or the latest update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate shall be used in the control and in each effluent dilution of this test.

   b. The NOEC (No Observed Lethal Effect Concentration) is defined as the greatest effluent dilution at and below which lethality that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Acute test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution.

   c. The conditions of this item are effective beginning with the effective date of the WET limit. When the testing frequency stated above is less than monthly and the effluent fails the survival endpoint at or below the critical dilution, the permittee shall be considered in violation of this permit limit and the frequency for the affected species will increase to monthly until such time compliance with the Lethal No Observed Effect Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at which time the permittee may return to the testing frequency stated in PART I of this permit. During the period the permittee is out of compliance, test results shall be reported on the DMR for that reporting period.
d. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

e. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

Each toxicity test control (0% effluent) shall have a survival equal to or greater than 90%.

The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent).

The percent coefficient of variation between replicates shall be 40% or less in the critical dilution unless significant lethal effects are exhibited.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

For the Daphnia pulic survival test, the statistical analyses used to determine if there is a statistically significant difference between the control and the critical dilution shall be in accordance with the methods EPA 821-R-02-012 or the most recent update thereof.

If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 90% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report an NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 3 below.

c. Dilution Water

Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water where the receiving stream is classified as intermittent or where the receiving stream has no flow due to zero flow conditions.
If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 2.a., the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a synthetic dilution water control which fulfills the test acceptance requirements of Item 2.a was run concurrently with the receiving water control;

the test indicating receiving water toxicity has been carried out to completion (i.e., 48 hours);

the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 3.a below; and

the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites (GRAB sample is authorized for this permit)

The permittee shall collect two grab samples from the outfall(s) listed at Item 1.a above.

The permittee shall collect a second grab sample for use during the 24 hour renewal of each dilution concentration for both tests. The permittee shall collect the grab samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee shall have initiated the toxicity test within 36 hours after the collection of the last portion of the first grab sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage.

The permittee shall collect the grab samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.

If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee shall collect an effluent grab sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days. The effluent grab sample collection duration and the static renewal protocol associated with the abbreviated sample collection shall be documented in the full report required in Item 3 of this section.

3. REPORTING

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this Part in accordance with the Report Preparation Section of EPA 821-R-02-012, for every valid or invalid toxicity test initiated, whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit full reports upon the specific request of the Agency. For any test which fails, is considered invalid or which is terminated early for any reason, the full report shall be submitted for agency review.
b. The permittee shall report the Whole Effluent Lethality values for the 30 Day Average Minimum and the 48 Hr. Minimum on the DMR for that reporting period in accordance with PART III.D.4 of this permit.

If more than one valid test for a species was performed during the reporting period, the test NOECs will be averaged arithmetically and reported as the DAILY AVERAGE MINIMUM NOEC for that reporting period.

A valid test for each species shall be reported on the DMR during each reporting period specified in PART I of this permit. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST Survival results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period shall be attached to the DMR for EPA review.

c. The permittee shall submit the results of the valid toxicity test on the DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR.

✓ Daphnia pulex

- If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TEM3D.

- Report the NOEC value for survival, Parameter No. TOM3D.

- Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQM3D.

If retests are required by NMED, enter the following codes:

- For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

- For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
APPENDIX A of PART II

The following Minimum Quantification Levels (MQL’s) are to be used for reporting pollutant data for NPDES permit applications and/or compliance reporting.

<table>
<thead>
<tr>
<th>POLLUTANTS</th>
<th>MQL µg/l</th>
<th>POLLUTANTS</th>
<th>MQL µg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>METALS, RADIOACTIVITY, CYANIDE and CHLORINE</td>
<td></td>
<td>METALS, RADIOACTIVITY, CYANIDE and CHLORINE</td>
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</tr>
<tr>
<td>Aluminum</td>
<td>2.5</td>
<td>Molybdenum</td>
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<td>Nickel</td>
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<tr>
<td>Arsenic</td>
<td>0.5</td>
<td>Selenium</td>
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</tr>
<tr>
<td>Barium</td>
<td>100</td>
<td>Silver</td>
<td>0.5</td>
</tr>
<tr>
<td>Beryllium</td>
<td>0.5</td>
<td>Thallium</td>
<td>0.5</td>
</tr>
<tr>
<td>Boron</td>
<td>100</td>
<td>Uranium</td>
<td>0.1</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1</td>
<td>Vanadium</td>
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</tr>
<tr>
<td>Chromium</td>
<td>10</td>
<td>Zinc</td>
<td>20</td>
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<td>Cobalt</td>
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<td>Cyanide</td>
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</tr>
<tr>
<td>Copper</td>
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<td>Cyanide, weak acid dissociable</td>
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<tr>
<td>Lead</td>
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<td>Total Residual Chlorine</td>
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<tr>
<td>Mercury *1</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>0.005</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,3,7,8-TCDD</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DIOXIN</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>VOLATILE COMPOUNDS</td>
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<tr>
<td>Acrolein</td>
<td>50</td>
<td>1,3-Dichloropropylene</td>
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<td>Acrylonitrile</td>
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<td>Ethylbenzene</td>
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<td>Methyl Bromide</td>
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<td>Bromoform</td>
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<td>Chlorobenzene</td>
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<td>Clorodibromomethane</td>
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<td>Chloroform</td>
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<td>1,2-trans-Dichloroethylene</td>
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<td>Dichlorobromomethane</td>
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<td>1,2-Dichloroethane</td>
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<td>Trichloroethylene</td>
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<tr>
<td>1,1-Dichloroethylene</td>
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<td>Vinyl Chloride</td>
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<tr>
<td>1,2-Dichloropropane</td>
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<td></td>
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<tr>
<td>ACID COMPOUNDS</td>
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<td>2-Chlorophenol</td>
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<td>2,4-Dinitrophenol</td>
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<td>2,4-Dichlorophenol</td>
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<td>2,4-Dimethylphenol</td>
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<td>Phenol</td>
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<td>4,6-Dinitro-o-Cresol</td>
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<td>2,4,6-Trichlorophenol</td>
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### POLLUTANTS

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL (µg/l)</th>
<th>Pollutant</th>
<th>MQL (µg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acenaphthene</td>
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<td>Dimethyl Phthalate</td>
<td>10</td>
</tr>
<tr>
<td>Anthracene</td>
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<td>Di-n-Butyl Phthalate</td>
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</tr>
<tr>
<td>Benzidine</td>
<td>50</td>
<td>2,4-Dinitrotoluene</td>
<td>10</td>
</tr>
<tr>
<td>Benzo(a)anthracene</td>
<td>5</td>
<td>1,2-Diphenylhydrazine</td>
<td>20</td>
</tr>
<tr>
<td>Benzo(a)pyrene</td>
<td>10</td>
<td>Fluoranthenet</td>
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</tr>
<tr>
<td>3,4-Benzofluoranthene</td>
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<td>Fluorene</td>
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</tr>
<tr>
<td>Benzo(k)fluoranthene</td>
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<td>Hexachlorobenzene</td>
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</tr>
<tr>
<td>Bis(2-chloroethyl)Ether</td>
<td>10</td>
<td>Hexachlorobutadiene</td>
<td>10</td>
</tr>
<tr>
<td>Bis(2-chloroisopropyl)Ether</td>
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<td>Hexachlorocyclopentadiene</td>
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<tr>
<td>Bis(2-ethylhexyl)Phthalate</td>
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<td>Hexachloroethane</td>
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</tr>
<tr>
<td>Butyl Benzyl Phthalate</td>
<td>10</td>
<td>Indeno(1,2,3-cd)Pyrene</td>
<td>5</td>
</tr>
<tr>
<td>2-Chloronaphthalene</td>
<td>10</td>
<td>Isophorone</td>
<td>10</td>
</tr>
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<td>Chrysene</td>
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<td>Nitrobenzene</td>
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<td>Dibenzo(a,h)anthracene</td>
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<td>n-Nitrosodimethylamine</td>
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<td>1,2-Dichlorobenzene</td>
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<td>n-Nitrosodi-n-Propylamine</td>
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<td>1,3-Dichlorobenzene</td>
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<td>n-Nitrosodiphenylamine</td>
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<tr>
<td>1,4-Dichlorobenzene</td>
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<td>Pyrene</td>
<td>10</td>
</tr>
<tr>
<td>3,3'-Dichlorobenzidine</td>
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<td>1,2,4-Trichlorobenzene</td>
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</tr>
<tr>
<td>Diethyl Phthalate</td>
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#### BASE/NEUTRAL

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL (µg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Phthalate</td>
<td>10</td>
</tr>
<tr>
<td>Di-n-Butyl Phthalate</td>
<td>10</td>
</tr>
<tr>
<td>2,4-Dinitrotoluene</td>
<td>10</td>
</tr>
<tr>
<td>1,2-Diphenylhydrazine</td>
<td>20</td>
</tr>
<tr>
<td>Fluoranthenet</td>
<td>10</td>
</tr>
<tr>
<td>Fluorene</td>
<td>10</td>
</tr>
<tr>
<td>Hexachlorobenzene</td>
<td>5</td>
</tr>
<tr>
<td>Hexachlorobutadiene</td>
<td>10</td>
</tr>
<tr>
<td>Hexachlorocyclopentadiene</td>
<td>10</td>
</tr>
<tr>
<td>Hexachloroethane</td>
<td>20</td>
</tr>
<tr>
<td>Indeno(1,2,3-cd)Pyrene</td>
<td>5</td>
</tr>
<tr>
<td>Isophorone</td>
<td>10</td>
</tr>
<tr>
<td>Nitrobenzene</td>
<td>10</td>
</tr>
<tr>
<td>n-Nitrosodimethylamine</td>
<td>50</td>
</tr>
<tr>
<td>n-Nitrosodi-n-Propylamine</td>
<td>20</td>
</tr>
<tr>
<td>n-Nitrosodiphenylamine</td>
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<tr>
<td>Pyrene</td>
<td>10</td>
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<tr>
<td>1,2,4-Trichlorobenzene</td>
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</tbody>
</table>

#### PESTICIDES AND PCB

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>MQL (µg/l)</th>
<th>Pollutant</th>
<th>MQL (µg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aldrin</td>
<td>0.01</td>
<td>Beta-Endosulfan</td>
<td>0.02</td>
</tr>
<tr>
<td>Alpha-BHC</td>
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<td>Endosulfan sulfate</td>
<td>0.02</td>
</tr>
<tr>
<td>Beta-BHC</td>
<td>0.05</td>
<td>Endrin</td>
<td>0.02</td>
</tr>
<tr>
<td>Gamma-BHC</td>
<td>0.05</td>
<td>Endrin Aldehyde</td>
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</tr>
<tr>
<td>Chlordane</td>
<td>0.2</td>
<td>Heptaehlor</td>
<td>0.01</td>
</tr>
<tr>
<td>4,4'-DDT and derivatives</td>
<td>0.02</td>
<td>Heptaehlor Epoxide</td>
<td>0.01</td>
</tr>
<tr>
<td>Dieldrin</td>
<td>0.02</td>
<td>PCBs</td>
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</tr>
<tr>
<td>Alpha-Endosulfan</td>
<td>0.01</td>
<td>Toxaphene</td>
<td>0.3</td>
</tr>
</tbody>
</table>

(MQL's Revised November 1, 2007)

Footnotes:

*1 Default MQL for Mercury is 0.005 unless Part I of your permit requires the more sensitive Method 1631 (Oxidation / Purge and Trap / Cold vapor Atomic Fluorescence Spectrometry), then the MQL shall be 0.0005.
PART III - STANDARD CONDITIONS FOR NPDES PERMITS

A. GENERAL CONDITIONS

1. INTRODUCTION

   In accordance with the provisions of 40 CFR Part 122.41, et. seq., this permit incorporates by reference ALL conditions and requirements applicable to NPDES Permits set forth in the Clean Water Act, as amended, (hereinafter known as the "Act") as well as ALL applicable regulations.

2. DUTY TO COMPLY

   The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

3. TOXIC POLLUTANTS

   a. Notwithstanding Part III.A.5, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and resubmitted to conform to the toxic effluent standard or prohibition.

   b. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

4. DUTY TO REAPPLY

   If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR Part 122.6 and any subsequent amendments.

5. PERMIT FLEXIBILITY

   This permit may be modified, revoked and reissued, or terminated for cause in accordance with 40 CFR 122.62-64. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

6. PROPERTY RIGHTS

   This permit does not convey any property rights of any sort, or any exclusive privilege.

7. DUTY TO PROVIDE INFORMATION

   The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

8. CRIMINAL AND CIVIL LIABILITY

   Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of the permit, the Act, or applicable regulations, which avoids or effectively defeats the regulatory purpose of the Permit may subject the Permittee to criminal enforcement pursuant to 18 U.S.C. Section 1001.

9. OIL AND HAZARDOUS SUBSTANCE LIABILITY

   Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

10. STATE LAWS

   Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.
11. SEVERABILITY
The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

B. PROPER OPERATION AND MAINTENANCE

1. NEED TO HALT OR REDUCE NOT A DEFENSE
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators or retention of inadequately treated effluent.

2. DUTY TO MITIGATE
The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

3. PROPER OPERATION AND MAINTENANCE

a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

4. BYPASS OF TREATMENT FACILITIES

a. BYPASS NOT EXCEEDING LIMITATIONS
The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.b. and 4.c.

b. NOTICE

(1) ANTICIPATED BYPASS
If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2) UNANTICIPATED BYPASS
The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III.D.7.

c. PROHIBITION OF BYPASS

(1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

   (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

   (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

   (c) The permittee submitted notices as required by Part III.B.4.b.

(2) The Director may allow an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions listed at Part III.B.4.c(1).
5. UPSET CONDITIONS

   a. EFFECT OF AN UPSET
      An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part III.B.5.b. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
   
   b. CONDITIONS NECESSARY FOR A DEMONSTRATION OF UPSET
      A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
      
      (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
      (2) The permitted facility was at the time being properly operated;
      (3) The permittee submitted notice of the upset as required by Part III.D.7; and,
      (4) The permittee complied with any remedial measures required by Part III.B.2.
   
   c. BURDEN OF PROOF
      In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. REMOVED SUBSTANCES
   Unless otherwise authorized, solids, sewage sludges, filter backwash, or other pollutants removed in the course of treatment or wastewater control shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. PERCENT REMOVAL (PUBLICLY OWNED TREATMENT WORKS)
   For publicly owned treatment works, the 30-day average (or Monthly Average) percent removal for Biochemical Oxygen Demand and Total Suspended Solids shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR 133.103.

C. MONITORING AND RECORDS

1. INSPECTION AND ENTRY
   The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by the law to:
   
   a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
   d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

2. REPRESENTATIVE SAMPLING
   Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

3. RETENTION OF RECORDS
   The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

4. RECORD CONTENTS
   Records of monitoring information shall include:
   
   a. The date, exact place, and time of sampling or measurements;
b. The individual(s) who performed the sampling or measurements;

c. The date(s) and time(s) analyses were performed;

d. The individual(s) who performed the analyses;

e. The analytical techniques or methods used; and

f. The results of such analyses.

5. MONITORING PROCEDURES

a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.

b. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to ensure accuracy of measurements and shall maintain appropriate records of such activities.

c. An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results, shall be maintained by the permittee or designated commercial laboratory.

6. FLOW MEASUREMENTS

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

D. REPORTING REQUIREMENTS

1. PLANNED CHANGES

a. INDUSTRIAL PERMITS

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR Part 122.29(b); or,

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements listed at Part II.D.10.a.

b. MUNICIPAL PERMITS

Any change in the facility discharge (including the introduction of any new source or significant discharge or significant changes in the quantity or quality of existing discharges of pollutants) must be reported to the permitting authority. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violation of the effluent limitations specified herein.

2. ANTICIPATED NONCOMPLIANCE

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. TRANSFERS

This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. DISCHARGE MONITORING REPORTS AND OTHER REPORTS

Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of the paper DMR Form. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR@epa.gov in-box for further instructions. Until you
are approved for Net DMR, you must report on the Discharge Monitoring Report (DMR) Form EPA, No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however when submitting paper form EPA No. 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D. to the EPA at the address below. Duplicate copies of paper DMR's and all other reports shall be submitted to the appropriate State agency (ies) at the following address (es):

<table>
<thead>
<tr>
<th>EPA: Compliance Assurance and Enforcement Division</th>
<th>New Mexico: Program Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Enforcement Branch (6EN-W)</td>
<td>Surface Water Quality Bureau</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency, Region 6</td>
<td>New Mexico Environment Department</td>
</tr>
<tr>
<td>1445 Ross Avenue</td>
<td>P.O. Box 5469</td>
</tr>
<tr>
<td>Dallas, TX 75202-2733</td>
<td>1190 Saint Francis Drive</td>
</tr>
<tr>
<td></td>
<td>Santa Fe, NM 87502-5469</td>
</tr>
</tbody>
</table>

5. **ADDITIONAL MONITORING BY THE PERMITTEE**

   If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR.

6. **AVERAGING OF MEASUREMENTS**

   Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

7. **TWENTY-FOUR HOUR REPORTING**

   a. The permittee shall report any noncompliance which may endanger health or the environment. Notification shall be made to the EPA at the following e-mail address: R6_NPDES_Reporting@epa.gov, as soon as possible, but within 24 hours from the time the permittee becomes aware of the circumstance. Oral notification shall also be to the New Mexico Environmental Department at (505) 827-0187 as soon as possible, but within 24 hours from the time the permittee becomes aware of the circumstance. A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. The report shall contain the following information:

   1. A description of the noncompliance and its cause;
   2. The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and,
   3. Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.

   b. The following shall be included as information which must be reported within 24 hours:

   1. Any unanticipated bypass which exceeds any effluent limitation in the permit;
   2. Any upset which exceeds any effluent limitation in the permit; and,
   3. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part II (industrial permits only) of the permit to be reported within 24 hours.

   c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

8. **OTHER NONCOMPLIANCE**

   The permittee shall report all instances of noncompliance not reported under Parts III.D.4 and D.7 and Part I.B (for industrial permits only) at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.7.

9. **OTHER INFORMATION**

   Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. **CHANGES IN DISCHARGES OF TOXIC SUBSTANCES**

    All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Director as soon as it knows or has reason to believe:
a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   (1) One hundred micrograms per liter (100 µg/L);
   (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2, 4-dinitro-phenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
   (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Director.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   (1) Five hundred micrograms per liter (500 µg/L);
   (2) One milligram per liter (1 mg/L) for antimony;
   (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
   (4) The level established by the Director.

11. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Director shall be signed and certified.

a. ALL PERMIT APPLICATIONS shall be signed as follows:

   (1) FOR A CORPORATION - by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,

      (b) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

   (2) FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP - by a general partner or the proprietor, respectively.

   (3) FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC AGENCY - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

      (a) The chief executive officer of the agency, or

      (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

b. ALL REPORTS required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   (1) The authorization is made in writing by a person described above;

   (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental
matters for the company. A duly authorized representative may thus be either a named individual or an individual occupying a named position; and,

(3) The written authorization is submitted to the Director.

c. CERTIFICATION
Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

12. AVAILABILITY OF REPORTS
Except for applications, effluent data permits, and other data specified in 40 CFR 122.7, any information submitted pursuant to this permit may be claimed as confidential by the submitter. If no claim is made at the time of submission, information may be made available to the public without further notice.

E. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS

1. CRIMINAL

a. NEGLIGENT VIOLATIONS
The Act provides that any person who negligently violates permit conditions implementing Section 301, 302, 306, 307, 309, 318, or 405 of the Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than 2 years, or both.

b. KNOWING VIOLATIONS
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than 6 years, or both.

c. KNOWING ENDANGERMENT
The Act provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 303, 306, 307, 308, 318, or 405 of the Act and who knows at that time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than $250,000, or by imprisonment for not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

d. FALSE STATEMENTS
The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or by both. (See Section 309.c.4 of the Clean Water Act)

2. CIVIL PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to a civil penalty not to exceed $37,500 per day for each violation.

3. ADMINISTRATIVE PENALTIES
The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Act is subject to an administrative penalty, as follows:
a. **CLASS I PENALTY**
   Not to exceed $16,000 per violation nor shall the maximum amount exceed $37,500.

b. **CLASS II PENALTY**
   Not to exceed $16,000 per day for each day during which the violation continues nor shall the maximum amount exceed $177,500.

**F. DEFINITIONS**

All definitions contained in Section 502 of the Act shall apply to this permit and are incorporated herein by reference. Unless otherwise specified in this permit, additional definitions of words or phrases used in this permit are as follows:

2. **ADMINISTRATOR** means the Administrator of the U.S. Environmental Protection Agency.
3. **APPLICABLE EFFLUENT STANDARDS AND LIMITATIONS** means all state and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards or performance, toxic effluent standards and prohibitions, and pretreatment standards.
4. **APPLICABLE WATER QUALITY STANDARDS** means all water quality standards to which a discharge is subject under the Act.
5. **BYPASS** means the intentional diversion of waste streams from any portion of a treatment facility.
6. **DAILY DISCHARGE** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day 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 discharged 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 arithmetic average (weighted by flow value) of all samples collected during that sampling day.
7. **DAILY MAXIMUM discharge limitation** means the highest allowable "daily discharge" during the calendar month.
8. **DIRECTOR** means the U.S. Environmental Protection Agency Regional Administrator or an authorized representative.
9. **ENVIRONMENTAL PROTECTION AGENCY** means the U.S. Environmental Protection Agency.
10. **GRAB SAMPLE** means an individual sample collected in less than 15 minutes.
11. **INDUSTRIAL USER** means a non-domestic discharger, as identified in 40 CFR 403, introducing pollutants to a publicly owned treatment works.
12. **MONTHLY AVERAGE** (also known as **DAILY AVERAGE**) discharge limitations means the highest allowable average of "daily discharge(s)" over a calendar month, calculated as the sum of all "daily discharge(s)" measured during a calendar month divided by the number of "daily discharge(s)" measured during that month. When the permit establishes daily average concentration effluent limitations or conditions, the daily average concentration means the arithmetic average (weighted by flow) of all "daily discharge(s)" that are determined during the calendar month.

   \[
   \text{daily average discharge} = \frac{C_1 F_1 + C_2 F_2 + \ldots + C_n F_n}{F_1 + F_2 + \ldots + F_n}
   \]

13. **NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM** means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of the Act.
14. **SEVERE PROPERTY DAMAGE** means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
15. **SEWAGE SLUDGE** means the solids, residues, and precipitates separated from or created in sewage by the unit processes of a publicly owned treatment works. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff that are discharged to or otherwise enter a publicly owned treatment works.

16. **TREATMENT WORKS** means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement Section 201 of the Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereto.

17. **UPSET** means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

18. FOR FECAL COLIFORM BACTERIA, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.

19. The term "MGD" shall mean million gallons per day.

20. The term "mg/L" shall mean milligrams per liter or parts per million (ppm).

21. The term "µg/L" shall mean micrograms per liter or parts per billion (ppb).

22. **MUNICIPAL TERMS**

   a. 7-DAY AVERAGE or WEEKLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. The 7-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

   b. 30-DAY AVERAGE or MONTHLY AVERAGE, other than for fecal coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during 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. The 30-day average for fecal coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.

   c. 24-HOUR COMPOSITE SAMPLE consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.

   d. 12-HOUR COMPOSITE SAMPLE consists of 12 effluent portions collected no closer together than one hour and composited according to flow. The daily sampling intervals shall include the highest flow periods.

   e. 6-HOUR COMPOSITE SAMPLE consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.

   f. 3-HOUR COMPOSITE SAMPLE consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.
MINOR - SEWAGE SLUDGE REQUIREMENTS

INSTRUCTIONS TO PERMITTEES

Select only those Elements and Sections which apply to your sludge reuse or disposal practice.

The sludge conditions do not apply to wastewater treatment lagoons where sludge is not wasted for final reuse/disposal. If the sludge is not removed, the permittee shall indicate on the DMR "No Discharge".

Although reporting is not required at this time, this permit may be modified or revoked and reissued to require an annual DMR.

ELEMENT 1 - LAND APPLICATION

SECTION I: Page 2 - Requirements Applying to All Sewage Sludge Land Application

SECTION II: Page 6 - Requirements Specific to Bulk Sewage Sludge for Application to the Land Meeting Class A or B Pathogen Reduction and the Cumulative Loading Rates in Table 2, or Class B Pathogen Reduction and the Pollutant Concentrations in Table 3

SECTION III: Page 9 - Requirements Specific to Bulk Sewage Sludge Meeting Pollutant Concentrations in Table 3 and Class A Pathogen Reduction Requirements

SECTION IV: Page 10 - Requirements Specific to Sludge Sold or Given Away in a Bag or Other Container for Application to the Land that does not meet the Pollutant Concentrations in Table 3

ELEMENT 2 - SURFACE DISPOSAL

SECTION I: Page 12 - Requirements Applying to All Sewage Sludge Surface Disposal

SECTION II: Page 16 - Requirements Specific to Surface Disposal Sites Without a Liner and Leachate Collection System

SECTION III: Page 17 - Requirements Specific to Surface Disposal Sites With a Liner and Leachate Collection System

ELEMENT 3 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I: Page 18 - Requirements Applying to All Municipal Solid Waste Landfill Disposal Activities
ELEMENT 1 - LAND APPLICATION

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the sludge.

2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act. If new limits for Molybdenum are promulgated prior to permit expiration, then those limits shall become directly enforceable.

3. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management Division, Mail Code 6WQ-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR Part 122.62(a)(1).

B. Testing Requirements

1. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Element 1, Section 1.C.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Ceiling Concentration (milligrams per kilogram)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>75</td>
</tr>
<tr>
<td>Cadmium</td>
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<td>Chromium</td>
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<td>49</td>
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<tr>
<td>PCBs</td>
<td>100</td>
</tr>
<tr>
<td>Selenium</td>
<td>7500</td>
</tr>
</tbody>
</table>

* Dry weight basis
2. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by either the Class A or Class B pathogen requirements. Sewage sludge that is applied to a lawn or home garden shall be treated by the Class A pathogen requirements. Sewage sludge that is sold or given away in a bag shall be treated by Class A pathogen requirements.

a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge. Alternatives 5 and 6 are not authorized to demonstrate compliance with Class A sewage sludge in Texas permits.

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at a specific value for a period of time. See 503.32(a)(3)(ii) for specific information.

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 and shall remain above 12 for 72 hours.

The temperature of the sewage sludge shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12.

At the end of the 72 hour period during which the pH of the sewage sludge is above 12, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%.

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(ii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(iii) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sludge is prepared for sale or give away in a bag or other container for application to the land.

The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sewage sludge is prepared for sale or gives away in a bag or other container for application to the land.
Alternative 5 - Sewage sludge shall be treated by one of the Processes to Further Reduce Pathogens (PFRP) described in 503 Appendix B. PFRPs include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 - Sewage sludge shall be treated by a process that is equivalent to a Process to Further Reduce Pathogens, if individually approved by the Pathogen Equivalency Committee representing the EPA.

b. Three alternatives are available to demonstrate compliance with Class B sewage sludge. Alternatives 2 and 3 are not authorized to demonstrate compliance with Class B sewage sludge in Texas permits.

Alternative 1 - Seven random samples of the sewage sludge shall be collected for one monitoring episode at the time the sewage sludge is used or disposed.

The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge shall be treated in one of the Processes to significantly Reduce Pathogens described in 503 Appendix B.

Alternative 3 - Sewage sludge shall be treated in a process that is equivalent to a PSRP, if individually approved by the Pathogen Equivalency Committee representing the EPA.

In addition, the following site restrictions must be met if Class B sludge is land applied:

- Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for 4 months or longer prior to incorporation into the soil.
- Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than 4 months prior to incorporation into the soil.
- Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.
- Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- Public access to land with a high potential for public exposure shall be restricted for 1 year after application of sewage sludge.
- Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
3. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following alternatives 1 through 10 for Vector Attraction Reduction. If bulk sewage sludge is applied to a home garden, or bagged sewage sludge is applied to the land, only alternative 1 through alternative 8 shall be used.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with a percent solid of 2% or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then at 11.5 or higher for an additional 22 hours.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75 % based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- Sewage sludge shall be injected below the surface of the land.
- No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
- When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
Alternative 10 -

- Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- When sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

All other pollutants shall be monitored at the frequency shown below:

<table>
<thead>
<tr>
<th>Amount of sewage sludge (metric tons per 365 day period)*</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 &lt; Sludge &lt; 290</td>
<td>Once/Year</td>
</tr>
<tr>
<td>290 &lt; Sludge &lt; 1,500</td>
<td>Once/Quarter</td>
</tr>
<tr>
<td>1,500 ≤ Sludge &lt; 15,000</td>
<td>Once/Two Months</td>
</tr>
<tr>
<td>15,000 ≤ Sludge</td>
<td>Once/Month</td>
</tr>
</tbody>
</table>

*Either the amount of bulk sewage sludge applied to the land or the amount of sewage sludge received by a person who prepares sewage sludge that is sold or given away in a bag or other container for application to the land (dry weight basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b).

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below those listed in Table 3 found in Element I, Section III, the following conditions apply:

1. Pollutant Limits

<table>
<thead>
<tr>
<th>污染物</th>
<th>累积污染物负载率（每公顷千克）</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>41</td>
</tr>
<tr>
<td>Cadmium</td>
<td>39</td>
</tr>
<tr>
<td>Chromium</td>
<td>3000</td>
</tr>
<tr>
<td>Copper</td>
<td>1500</td>
</tr>
<tr>
<td>Lead</td>
<td>300</td>
</tr>
<tr>
<td>Mercury</td>
<td>17</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Monitor</td>
</tr>
<tr>
<td>Nickel</td>
<td>420</td>
</tr>
<tr>
<td>Selenium</td>
<td>100</td>
</tr>
<tr>
<td>Zinc</td>
<td>2800</td>
</tr>
</tbody>
</table>
2. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by either Class A or Class B pathogen reduction requirements as defined above in Element I, Section 1.B.3.

3. Management Practices

a. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters of the U.S., as defined in 40 CFR 122.2, except as provided in a permit issued pursuant to section 404 of the CWA.

b. Bulk sewage sludge shall not be applied within 10 meters of a water of the U.S.

c. Bulk sewage sludge shall be applied at or below the agronomic rate in accordance with recommendations from the following references:

- Recommendations of local extension services or Soil Conservation Services.
- Recommendations of a major University's Agronomic Department.

d. An information sheet shall be provided to the person who receives bulk sewage sludge sold or given away. The information sheet shall contain the following information:

- The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
- A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.
- The annual whole sludge application rate for the sewage sludge that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Element I, Section III below are met.

4. Notification requirements

a. If bulk sewage sludge is applied to land in a State other than the State in which the sludge is prepared, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk sewage sludge is proposed to be applied. The notice shall include:

- The location, by either street address or latitude and longitude, of each land application site.
- The approximate time period bulk sewage sludge will be applied to the site.
- The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who prepares the bulk sewage sludge.
• The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk sewage sludge.

b. The permittee shall give 60 days prior notice to the Director of any change planned in the sewage sludge practice. Any change shall include any planned physical alterations or additions to the permitted treatment works, changes in the permittee's sludge use or disposal practice, and also alterations, additions, or deletions of disposal sites. These changes may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional disposal sites not reported during the permit application process or absent in the existing permit. Change in the sludge use or disposal practice may because for modification of the permit in accordance with 40 CFR 122.62(a)(1).

c. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

d. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPDES records.

The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found in 40 CFR 503.17 for persons who land apply.

a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 found in Element 1, Section III and the applicable pollutant concentration criteria (mg/Kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (kg/ha) listed in Table 2 above.

b. A description of how the pathogen reduction requirements are met (including site restrictions for Class B sludge, if applicable).

c. A description of how the vector attraction reduction requirements are met.

d. A description of how the management practices listed above in Section II.3 are being met.

e. The recommended agronomic loading rate from the references listed in Section II.3.c. above, as well as the actual agronomic loading rate shall be retained.

f. A description of how the site restrictions in 40 CFR Part 503.32(b)(5) are met for each site on which Class B bulk sewage sludge is applied.

g. The following certification statement:

"I certify, under penalty of law, that the management practices in §503.14 have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

h. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification
including fine and imprisonment. See 40 CFR 503.17(a)(4)(i)(B) or 40 CFR Part 503.17(a)(5)(i)(B) as applicable to the permittees sludge treatment activities.

i. The permittee shall maintain information that describes future geographical areas where sludge may be land applied.

j. The permittee shall maintain information identifying site selection criteria regarding land application sites not identified at the time of permit application submission.

k. The permittee shall maintain information regarding how future land application sites will be managed.

The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for recordkeeping found in 40 CFR 503.17 for persons who land apply.

a. The location, by either street address or latitude and longitude, of each site on which sludge is applied.

b. The number of hectares in each site on which bulk sludge is applied.

c. The date and time sludge is applied to each site.

d. The cumulative amount of each pollutant in kilograms/hectare listed in Table 2 applied to each site.

e. The total amount of sludge applied to each site in metric tons.

f. The following certification statement:

"I certify, under penalty of law, that the requirements to obtain information in §503.12(c)(2) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

g. A description of how the requirements to obtain information in §503.12(c)(2) are met.

6. Reporting Requirements - None.

SECTION III. REQUIREMENTS SPECIFIC TO BULK OR BAGGED SEWAGE SLUDGE MEETING POLLUTANT CONCENTRATIONS IN TABLE 3 AND CLASS A PATHOGEN REDUCTION REQUIREMENTS

For those permittees with sludge that contains concentrations of pollutants below those pollutant limits listed in Table 3 for bulk or bagged (containerized) sewage sludge and also meet the Class A pathogen reduction requirements, the following conditions apply (Note: All bagged sewage sludge must be treated by Class A pathogen reduction requirements):

1. Pollutant limits - The concentration of the pollutants in the municipal sewage sludge is at or below the values listed.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Monthly Average Concentration (milligrams per kilogram)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>41</td>
</tr>
<tr>
<td>Cadmium</td>
<td>39</td>
</tr>
<tr>
<td>Chromium</td>
<td>1200</td>
</tr>
</tbody>
</table>
2. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by the Class A pathogen reduction requirements as defined above in Element I, Section 1.B.3. All bagged sewage sludge must be treated by Class A pathogen reduction requirements.


4. Notification Requirements - None.

5. Recordkeeping Requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPDES records.

   a. The concentration (mg/Kg) in the sludge of each pollutant listed in Table 3 and the applicable pollutant concentration criteria listed in Table 3.
   b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 503.17(a)(1)(ii) or 503.17(a)(3)(i)(B), whichever applies to the permittees sludge treatment activities.
   c. A description of how the Class A pathogen reduction requirements are met.
   d. A description of how the vector attraction reduction requirements are met.

6. Reporting Requirements - None.

SECTION IV. REQUIREMENTS SPECIFIC TO SLUDGE SOLD OR GIVEN AWAY IN A BAG OR OTHER CONTAINER FOR APPLICATION TO THE LAND THAT DOES NOT MEET THE MINIMUM POLLUTANT CONCENTRATIONS

1. Pollutant Limits

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Annual Pollutant Loading Rate (kilograms per hectare per 365 day period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>2</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.9</td>
</tr>
<tr>
<td>Chromium</td>
<td>150</td>
</tr>
<tr>
<td>Copper</td>
<td>75</td>
</tr>
<tr>
<td>Lead</td>
<td>15</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.85</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>Monitor</td>
</tr>
<tr>
<td>Nickel</td>
<td>21</td>
</tr>
<tr>
<td>Selenium</td>
<td>5</td>
</tr>
</tbody>
</table>
2. Pathogen Control

All sewage sludge that is sold or given a way in a bag or other container for application to the land shall be treated by the Class A pathogen requirements as defined above in Section 1.B.3.a. above.

3. Management Practices

Either a label shall be affixed to the bag or other container in which sewage sludge that is sold or given a way for application to the land, or an information sheet shall be provided to the person who receives sewage sludge sold or given away in another container for application to the land. The label or information sheet shall contain the following information:

a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
b. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instructions on the label or information sheet.
c. The annual whole sludge application rate for the sewage sludge that will not cause any of the annual pollutant loading rates in Table 4 above to be exceeded.

4. Notification Requirements - None.

5. Recordkeeping Requirements - The sludge documents will be retained on site at the same location as other NPD ES records. The person who prepares sewage sludge or a sewage sludge material shall develop the following information and shall retain the information for five years.

a. The concentration in the sludge of each pollutant listed above in found in Element I, Section I, Table 1.
b. The following certification statement found in §503.17(a)(6)(iii).

"I certify, under penalty of law, that the management practice in §503.14(e), the Class A pathogen requirement in §503.32(a), and the vector attraction reduction requirement in (insert vector attraction reduction option) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practice, pathogen requirements, and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

c. A description of how the Class A pathogen reduction requirements are met.
d. A description of how the vector attraction reduction requirements are met.
e. The annual whole sludge application rate for the sewage sludge that does not cause the annual pollutant loading rates in Table 4 to be exceeded. See Appendix A to Part 503 - Procedure to Determine the Annual Whole Sludge Application Rate for Sewage Sludge.

6. Reporting Requirements - None.
ELEMENT 2- SURFACE DISPOSAL

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE SURFACE DISPOSAL

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the Clean Water Act and all other applicable Federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present.

2. If requirements for sludge management practices or pollutant criteria become more stringent than the sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act.

3. In all cases, if the person (permit holder) who prepares the sewage sludge or supplies the sewage sludge to another person (owner or operator of a sewage sludge unit) for disposal in a surface disposal site, the permit holder shall provide all necessary information to the parties who receive the sludge to assure compliance with these regulations.

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management Division, Mail Code 6WQ-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR Part 122.62(a)(1).

5. The permittee or owner/operator shall submit a written closure and post closure plan to the permitting authority 180 days prior to the closure date. The plan shall include the following information:

   a. A discussion of how the leachate collection system will be operated and maintained for three years after the surface disposal site closes if it has a liner and leachate collection system.

   b. A description of the system used to monitor continuously for methane gas in the air in any structures within the surface disposal site. The methane gas concentration shall not exceed 25% of the lower explosive limit for methane gas for three years after the sewage sludge unit closes. A description of the system used to monitor for methane gas in the air at the property line of the site shall be included. The methane gas concentration at the surface disposal site property line shall not exceed the lower explosive limit for methane gas for three years after the sewage sludge unit closes.

   c. A discussion of how public access to the surface disposal site will be restricted for three years after it closes.

B. Management Practices

1. An active sewage sludge unit located within 60 meters of a fault that has displacement in Holocene time shall close by March 22, 1994.


3. An active sewage sludge unit located in a wetland shall close by March 22, 1994.

4. Surface disposal shall not restrict the flow of the base 100-year flood.

5. The run-off collection system for an active sewage sludge unit shall have the capacity to handle run-off from a 25-year, 24-hour storm event.

6. A food crop, feed crop, or a fiber crop shall not be grown on a surface disposal site.
7. Animals shall not be grazed on a surface disposal site.
8. Public access shall be restricted on the active surface disposal site and for three years after the site closes.
9. Placement of sewage sludge shall not contaminate an aquifer. This shall be demonstrated through one of the following:
   a. Results of a ground-water monitoring program developed by a qualified ground-water scientist.
   b. A certification by a qualified ground-water scientist may be used to demonstrate that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.
10. When a cover is placed on an active surface disposal site, the concentration of methane gas in air in any structure within the surface disposal site shall not exceed 25% of the lower explosive limit for methane gas during the period that the sewage sludge unit is active. The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the lower explosive limit for methane gas during the period that the sewage sludge unit is active. Monitoring shall be continuous.

C. Testing Requirements

1. Sewage sludge shall be tested at the frequency show below in Element 2, Section I.D. for PCBs. Any sludge exceeding a concentration of 50 mg/Kg shall not be surface disposed.
2. Pathogen Control

   All sewage sludge that is disposed of in a surface disposal site shall be treated by either the Class A or Class B pathogen requirements unless sewage sludge is placed on an active surface disposal site, and is covered with soil or other material at the end of each operating day.

   a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. All 6 alternatives require either the density of fecal coliform in the sewage sludge be less than 1000 MPN per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed; at the time the sewage sludge is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A sludge. Alternatives 5 and 6 are not authorized to demonstrate compliance with Class A sewage sludge in Texas permits.

   **Alternative 1** - The temperature of the sewage sludge that is used or disposed shall be maintained at a specific value for a period of time. See 503.32(a)(3)(ii) for specific information.

   **Alternative 2** - The pH of the sewage sludge that is used or disposed shall be raised to above 12 and shall remain above 12 for 72 hours. The temperature of the sewage sludge shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12. At the end of the 72 hour period during which the pH of the sewage sludge is above 12, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%.
Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(ii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 503.32(a)(5)(iii) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sludge is prepared for sale or give away in a bag or other container for application to the land. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed or at the time the sewage sludge is prepared for sale or give away in a bag or other container for application to the land.

Alternative 5 - Sewage sludge shall be treated by one of the Processes to Further Reduce Pathogens (PFRP) described in 503 Appendix B. PFRPs include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 - Sewage sludge shall be treated by a process that is equivalent to a Process to Further Reduce Pathogens, if individually approved by the Pathogen Equivalency Committee representing the EPA.

b. Four alternatives are available to demonstrate compliance with Class B sewage sludge. Alternatives 2, 3, and 4 are not authorized to demonstrate compliance with Class B sewage sludge in Texas permits.

Alternative 1 -

• Seven random samples of the sewage sludge shall be collected for one monitoring episode at the time the sewage sludge is used or disposed.
• The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 Most Probable Number per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge shall be treated in one of the Processes to significantly Reduce Pathogens described in 503 Appendix B.

Alternative 3 - Sewage sludge shall be treated in a process that is equivalent to a PSRP, if individually approved by the Pathogen Equivalency Committee representing the EPA.

Alternative 4 - Sewage sludge placed on an active surface disposal site is covered with soil or other material at the end of each operating day.

3. Vector Attraction Reduction Requirements

All sewage sludge that is disposed of in a surface disposal site shall be treated by one of the following alternatives 1 through 11 for Vector Attraction Reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with a percent solid of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then at 11.5 or higher for an additional 22 hours.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or an anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or an anaerobic treatment process.

Alternative 9 -
- Sewage sludge shall be injected below the surface of the land.
- No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
- When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -
- Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- When sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.
Alternative I1 - Sewage sludge placed on an active sewage sludge unit shall be covered with soil or other material at the end of each operating day.

4. Methane Gas Control Within a Structure On Site

When cover is placed on an active surface disposal site, the methane gas concentration in the air in any structure shall not exceed 25% of the lower Explosive limit (LEL) for methane gas during the period that the disposal site is active.

5. Methane Gas Control at Property Line

The concentration of methane gas in air at the property line of the surface disposal site shall not exceed the LEL for methane gas during the period that the disposal site is active.

D. Monitoring Requirements

Methane Gas in covered structures on site - Continuous

Methane Gas at property line - Continuous

All other pollutants shall be monitored at the frequency shown below:

<table>
<thead>
<tr>
<th>Amount of sewage sludge* (metric tons per 365 day period)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ≤ Sludge ≤ 290</td>
<td>Once/Year</td>
</tr>
<tr>
<td>290 ≤ Sludge &lt; 1,500</td>
<td>Once/Quarter</td>
</tr>
<tr>
<td>1,500 ≤ Sludge &lt; 15,000</td>
<td>Once/Two Months</td>
</tr>
<tr>
<td>15,000 ≤ Sludge</td>
<td>Once/Month</td>
</tr>
</tbody>
</table>

*Amount of sewage sludge placed on an active sewage sludge unit (dry weight basis).

Representative sample s of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 40 CFR 503.8(b).

SECTION II. REQUIREMENTS SPECIFIC TO SURFACE DISPOSAL SITES WITHOUT A LINER AND LEACHATE COLLECTION SYSTEM.

1. Pollutant limits - Sewage sludge shall not be applied to a surface disposal site if the concentrations of the listed pollutants exceed the corresponding values based on the surface disposal site boundary to the property line distance:

<table>
<thead>
<tr>
<th>Unit boundary to property line distance (meter)</th>
<th>Pollutant concentrations* (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arsenic</td>
</tr>
<tr>
<td>0 to &lt; 25</td>
<td>30</td>
</tr>
<tr>
<td>25 to &lt; 50</td>
<td>34</td>
</tr>
<tr>
<td>50 to &lt; 75</td>
<td>39</td>
</tr>
<tr>
<td>75 to &lt; 100</td>
<td>46</td>
</tr>
<tr>
<td>100 to &lt; 125</td>
<td>53</td>
</tr>
<tr>
<td>125 to &lt; 150</td>
<td>62</td>
</tr>
<tr>
<td>≥ 150</td>
<td>73</td>
</tr>
</tbody>
</table>

*Dry weight basis


3. Notification requirements
a. The permittee shall assure that the owner of the surface disposal site provide written
notification to the subsequent site owners that sewage sludge was placed on the land.
b. The permittee shall provide the location of all existing sludge disposal/use sites to the State
Historical Commission within 90 days of the effective date of this permit. In addition, the
permittee shall provide the location of any new disposal/use site to the State Historical
Commission prior to use of the site.
c. The permittee shall within 30 days after notification by the State Historical Commission that
a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of
such area.

4. Recordkeeping requirements - The permittee shall develop the following information and shall
retain the information for five years. The sludge documents will be retained on site at the same
location as other NPDES records.

a. The distance of the surface disposal site from the property line and the concentration
(mg/Kg) in the sludge of each pollutant listed above in Table 5, as well as the applicable
pollutant concentration criteria listed in Table 5.
b. A certification statement that all applicable requirements (specifically listed) have been met,
and that the permittee understands that there are significant penalties for false certification
including fine and imprisonment. See 503.27(a)(1)(ii) or 503.27(a)(2)(ii) as applicable to the
permittees sludge disposal activities.
c. A description of how either the Class A or Class B pathogen reduction requirements are met,
or whether sewage sludge placed on a surface disposal site is covered with soil or other
material at the end of each operating day.
d. A description of how the vector attraction reduction requirements are met.
e. Results of a groundwater monitoring program developed by a qualified ground-water
scientist, or a certification by a qualified groundwater scientist may be used to demonstrate
that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.
A qualified ground water scientist is an individual with a baccalaureate or post graduate
degree in the natural sciences or engineering who has sufficient training and experience in
groundwater hydrology and related fields, as may be demonstrated by State registration,
professional certification or completion of accredited university programs, to make sound
professional judgments regarding groundwater monitoring, pollutant fate and transport, and
corrective action.

5. Reporting Requirements - None.

SECTION III. REQUIREMENTS SPECIFIC TO SURFACE DISPOSAL SITES WITH A LINER AND
LEACHATE COLLECTION SYSTEM.

1. Pollutant limits - None.
3. Notification requirements

a. The permittee shall assure that the owner of the surface disposal site provide written
notification to the subsequent owner of the site that sewage sludge was placed on the land.
b. The permittee shall provide the location of all existing sludge disposal/use sites to the State
Historical Commission within 90 days of the effective date of this permit. In addition, the
permittee shall provide the location of any new disposal/use site to the State Historical
Commission prior to use of the site. The permittee shall within 30 days after notification by
the State Historical Commission that a specific sludge disposal/use area will adversely affect
a National Historic Site, cease use of such area.

4. Recordkeeping requirements - The permittee shall develop the following information and shall
retain the information for five years. The sludge documents will be retained on site at the same
location as other NPDES records.
   a. The following certification statement found in 503.27(a)(1)(ii):

   "I certify, under penalty of law, that the pathogen requirements (define option used) and the
   vector attraction reduction requirements in (define option used) have been met. This
determination has been made under my direction and supervision in accordance with the
system designed to ensure that qualified personnel properly gather and evaluate the
information used to determine the (pathogen requirements and vector attraction reduction
requirements, if appropriate) have been met. I am aware that there are significant penalties
for false certification including the possibility of fine and imprisonment."

   b. A description of how either the Class A or Class B pathogen reduction requirements are met
   or whether sewage sludge placed on a surface disposal site is covered with soil or other
   material at the end of each operating day.
   c. A description of how the vector attraction reduction requirements are met.
   d. Results of a ground-water monitoring program developed by a qualified ground-water
   scientist, or a certification by a qualified ground-water scientist may be used to demonstrate
   that sewage sludge placed on an active sewage sludge unit does not contaminate an aquifer.

5. Reporting Requirements - None.

ELEMENT 3 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE DISPOSED IN A
MUNICIPAL SOLID WASTE LANDFILL

1. The permittee shall handle and dispose of sewage sludge in accordance with Section 405 of the
   Clean Water Act and all other applicable Federal regulations to protect public health and the
   environment from any reasonably anticipated adverse effects due to any toxic pollutants that may
   be present. The permittee shall ensure that the sewage sludge meets the requirements in 40 CFR
   258 concerning the quality of the sludge disposed in a municipal solid waste land fill.

2. If requirements for sludge management practices or pollutant criteria become more stringent than
   the sludge pollutant limits or acceptable management practices in this permit, or control a
   pollutant not listed in this permit, this permit may be modified or revoked and reissued to
   conform to the requirements promulgated at Section 405(d)(2) of the Clean Water Act.

3. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or
   operator of a MSWLF for disposal, the permittee shall provide to the owner or operator of the
   MSWLF appropriate information needed to be in compliance with the provisions of this permit.

4. The permittee shall give prior notice to EPA (Chief, Permits Branch, Water Management
   Division, Mail Code 6WQ-P, EPA Region 6, 1445 Ross Avenue, Dallas, Texas 75202) of any
   planned changes in the sewage sludge disposal practice, in accordance with 40 CFR Part
   122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different
from or absent in the existing permit. Change in the sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR Part 122.62(a)(1).

5. The permittee shall provide the location of all existing sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site. The permittee shall within 30 days after notification by the State Historical Commission that a specific sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

6. Recordkeeping requirements - The permittee shall develop the following information and shall retain the information for five years. The sludge documents will be retained on site at the same location as other NPD ES records.

   a. The description and results of the tests performed, required by the owner/operator of the MSWLF to demonstrate compliance with the 40 CFR 258 regulations.

   b. A certification that sewage sludge meets the requirements in 40 CFR 258 concerning the quality of the sludge disposed in a municipal solid waste land fill unit.

7. Reporting requirements - None.
NPDES Permit No. NM30996

Attachments A, B, & C - Outfalls
### ATTACHMENT A - Coal Preparation & Association Areas

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### NPDES PERMIT NO. NM0030996

**ATTACHMENT C - Sewage Lagoon**

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* Ponds will be built in this permit term.
NPDES Permit No. NM30996

Attachment D – Sediment Control Plan (SCP)

[SCP Available from EPA Upon Request]

Note: Copies of these documents as submitted by Permitee in electronic format available.