State of California CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. <u>CL - 6520</u> for HITCO CARBON COMPOSITES, INC. (CA0059048)

I. REPORTING REQUIREMENTS

A. The Discharger shall implement this monitoring program on the effective date of this Order. The first monitoring report under this Program is due by July 15, 2001.

Monitoring reports shall be submitted by the dates in the following schedule:

	pon Due
January - March Ap	ril 15
April - June Jul	y 15
July - September Oc	tober 15
October - December Jar	nuary 15
Annual Summary Report Ma	rch 1

- B. If there is no discharge, during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.
- C. Laboratory analyses all chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time a new and/or renewal is obtained from ELAP.
- D. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of these actions.
- E. By March 1 of each year, the Discharger shall submit an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or

planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements.

F. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.

II. EFFLUENT MONITORING REQUIREMENTS

- A. Sampling station(s) shall be established for the point of discharge and shall be located where representative samples of that effluent can be obtained. Provisions shall be made to enable visual inspection before discharge. If oil sheen, debris, and/or other objectionable materials or odors are present, the discharge shall not be commenced until compliance with the requirements has been demonstrated. All visual observations shall be included in the monitoring report.
- B. This Regional Board shall be notified in writing of any change in the sampling stations once established, or in the methods for determining the quantities of pollutants in the individual waste streams.
- C. Pollutants shall be analyzed using the methods described in 40 CFR 136.3, 136.4, and 136.5 (revised May 14, 1999); or where no methods are specified for a given pollutant, methods approved by Regional Board or State Board. Laboratories analyzing monitoring samples shall be certified by the California Department of Health Services and must include quality assurance/quality control (QA/QC) data with their report.

The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL) and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:

- 1. An actual numerical value for sample results greater than, or equal to, the ML; or,
- 2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or,
- 3. "Not-Detected (ND)" for sample results less than the laboratory's MDL with MDL indicated for the analytical method used.

Current MLs (Attachment T-1) are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics*

Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, March 2, 2000.

D. Where possible, the MLs employed for effluent analyses shall be lower than the permit limits established for a given parameter. If the ML value is not below the effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year (in the annual report), the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory quality assurance/quality control (QA/QC) procedures.

The Regional Board, in consultation with the State Board Quality Assurance Program, shall establish an ML that is not contained in Attachment T-1 to be included in the Discharger's permit in any of the following situations:

- 1. When the pollutant under consideration is not included in Attachment T-1;
- 2. When the Discharger and Regional Board agree to include in the permit a test method that is more sensitive than those specified in 40 CFR 136 (revised May 14, 1999);
- 3. When the Discharger agrees to use an ML that is lower than that listed in Attachment T-1;
- 4. When a Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment T-1 and proposes an appropriate ML for their matrix; or,
- 5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the USEPA-approved Method 1613 for dioxins and furans, Method 1624 for volatile organic substances, and Method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Board, and the State Board shall agree on a lowest quantifiable limit, and that limit will substitute for the ML for reporting and compliance determination purposes.
- E. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC samples must be run on the same dates the samples were actually analyzed, and the results must be reported in the Regional Board format if available, and submitted with the laboratory reports.
- F. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis,

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QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.

- G. Each monitoring report must affirm in writing that: "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services, and in accordance with current USEPA guideline procedures or as specified in this Monitoring Program."
- H. Each report shall contain the following completed declaration:

"I declare under penalty of law that I have personally examined, and am familiar with, the information submitted in this document and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. [CWC Sections 13263, 13267, and 13268]".

Executed on the	day of	at	·
			(Signature)
			(Title)

III. EFFLUENT MONITORING PROGRAM

The following shall constitute the effluent monitoring program for the final effluent at Discharge No. 001:

Constituent	<u>Units</u>	Type of <u>Sample</u>	Minimum Frequency <u>of Analysis</u>
Total waste flow	gal/day		monthly
Temperature	۴	grab	monthly
Acute toxicity	% survival	grab	quarterly
Chronic toxicity	TUc	grab	quarterly
Fecal coliform	MPN/100ml	grab	quarterly
Ammonia	mg/L	grab	semiannually
Total residual chlorine	mg/L	grab	semiannually
рН	pH units	grab	semiannually
Oil and grease	mg/L	grab	semiannually
Turbidity	NTU	grab	semiannually
Settleable solids	ml/L	grab	semiannually
Total suspended solids	mg/L	grab	semiannually

		Type of	Minimum Frequency
<u>Constituent</u>	<u>Units</u>	Sample	of Analysis
BOD₅ (20°C)	mg/L	grab	semiannually
Chromium	μg/L	grab	quarterly
Copper	μg/L	grab	quarterly
Lead	μg/L	grab	quarterly
Zinc	μg/L	grab	quarterly
Chlordane	μg/L	grab	quarterly
Aldrin	μg/L	grab	quarterly
Acenaphthene	μg/L	grab	quarterly
Anthracene	μg/L	grab	quarterly
Benzo(a)anthracene	μg/L	grab	quarterly
Benzo(a)pyrene	μg/L	grab	quarterly
Benzo(b)fluoranthene	μg/L	grab	quarterly
Benzo(k)fluoranthene	μg/L	grab	quarterly
Chrysene	μg/L	grab	quarterly
Dibenzo(a,h)anthracene	μg/L	grab	quarterly
Dieldrin	μg/L	grab	quarterly
DDT	μg/L	grab	quarterly
Endrin	μg/L	grab	quarterly
Endosulfan	μg/L	grab	quarterly
Fluoranthene	μg/L	grab	quarterly
Fluorene	μg/L	grab	quarterly
Heptachlor	μg/L	grab	quarterly
Heptachlor epoxide	μg/L	grab	quarterly
alpha HCH	μg/L	grab	quarterly
beta HCH	μg/L	grab	quarterly
gamma HCH (lindane)	μg/L	grab	quarterly
Indeno(1,2,3-cd)pyrene	μg/L	grab	quarterly
PCBs	μg/L	grab	quarterly
Pyrene	μg/L	grab	quarterly
Toxaphene	μg/L	grab	quarterly

IV. ADDITIONAL ACUTE AND CHRONIC TOXICITY MONITORING REQUIREMENTS

A. ACUTE TOXICITY MONITORING REQUIREMENTS

- 1. The Discharger shall conduct acute toxicity tests on effluent grab samples by methods specified in 40 CFR Part 136 which cites USEPA's Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, August, 1991 (EPA/600/4-90/027) or a more recent edition to ensure compliance in 100 % effluent.
- 2. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for brackish effluent. The method for topsmelt is found in USEPA's Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine to Freshwater Organisms, First Edition, August, 1995 (EPA/600/4-95/136).
- 3. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.

B. CHRONIC TEST SPECIES AND METHODS FOR FRESHWATER

 The Discharger shall conduct critical life stage chronic toxicity tests on 24-hour composite 100 percent effluent samples or receiving water samples in accordance with EPA's Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Third Edition, July 1994 (EPA/600/4-91/002) or EPA's Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, August 1995, (EPA/600/R-95/136).

Effluent samples shall be collected after all treatment processes before discharge to the receiving water in accordance with the conditions specified in the Monitoring and Reporting Program No. CI-6520.

- 2. Test Species and Methods for Freshwater Habitat.
 - a. The Discharger shall conduct short-term tests with the cladoceran, water flea (*Ceriodaphnia dubia* survival and reproduction test), the fathead minnow (*Pimephales promelas* larval survival and growth test), and the green alga (*Selenastrum capricornutum* growth test) as an initial screening process for a

minimum of three, but not to exceed five, suites of tests to account for potential variability of the effluent / receiving water. After this screening period, monitoring shall be conducted using the most sensitive species.

- b. Re-screening is required every 15 months. The Discharger shall re-screen with the three species listed above and continue to monitor with the most sensitive species. If the first suite of rescreening tests demonstrate that the same species is the most sensitive than the re-screening does not need to include more that one suite of tests. If a different species is the most sensitive or if there is ambiguity then the discharger shall proceed with suites of screening tests for a minimum of three, but not to exceed five suites.
- c. The presence of chronic toxicity shall be estimated as specified in EPA's Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, Third Edition, July 1994 (EPA/600/4-91/002).

C. QUALITY ASSURANCE

- 1. Concurrent testing with a reference toxicant shall be conducted. Reference toxicant tests shall be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration, etc).
- 2. If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the test methods manuals (EPA/600/4-91/002 and EPA/600/R-95/136), then the Discharger must re-sample and re-test within 14 days.
- 3. Control and dilution water should be receiving water or laboratory water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control using culture water shall be used.

D. ACCELERATED MONITORING

 If toxicity is detected as defined in Monitoring and Reporting Program No. CI-6520, Sections I.B.4.a., or I.B.4. b., then the Discharger shall conduct six additional tests, approximately every 7 days, over a six-week period. The samples shall be collected and the tests initiated no less than 7 days apart. The discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within 3 business days of the receipt of the

result. If two of the six tests exceed 1.0 TU_{c} , the Discharger shall immediately implement the <u>Initial Identification Evaluation (TIE)</u>.

- 2. If implementation of the initial investigation TIE indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger shall return to the normal sampling frequency required in Part III of this monitoring and reporting program.
- 3. If implementation of the initial investigation workplan indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger shall return to the normal sampling frequency required in Part III of this permit.
- 4. If a TIE is initiated prior to completion of the accelerated testing schedule required by Part IV.D. of this permit, then the accelerated testing schedule may be terminated, or used as necessary in performing the TIE, as determined by the Executive Officer.
- 5. The Discharger shall obtain 6 consecutive chronic toxicity results less than or equal to 1 TU_c in order to return to the normal sampling frequency required in Part III of this permit.

D. REPORTING

 The Discharger shall submit a full report of the toxicity test results, including any accelerated testing conducted during the month as required by Part I.B.4. of this permit. Test results shall be reported in Toxicity Units (percent survival or TU_c) with the discharge monitoring reports (DMR) for the month in which the test is conducted.

If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, pursuant to <u>Section IV.D.4.</u>, then those results also shall be submitted with the DMR for the period in which the Investigation occurred.

- 2. The full report shall be submitted by the end of the month in which the DMR is submitted.
- 3. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limit or chronic toxicity limit or trigger as described in Sections I.B.4.a.1., and I.B.4.b.1.
- 4. Test results for toxicity tests also shall be reported according to the

appropriate manual chapter on Report Preparation and shall be attached to the DMR. Routine reporting shall include, at a minimum, as applicable, for each test:

- a. sample date(s)
- b. test initiation date
- c. test species
- d. end point values for each dilution (e.g. number of young, growth rate, percent survival)
- e. NOEC value(s) in percent effluent
- f. IC_{15} , IC_{25} , IC_{40} and IC_{50} values in percent effluent

g.
$$TU_c$$
 values $\left(TU_c = \frac{100}{NOEC}\right)$

- h. Mean percent mortality (<u>+</u>standard deviation) after 96 hours in 100% effluent (if applicable)
- h. NOEC and LOEC values for reference toxicant test(s)
- i. IC₂₅ value for reference toxicant test(s)
- j. Available water quality measurements for each test (e.g., pH, D.O., temperature, conductivity, hardness, salinity, ammonia)
- 5. The Discharger shall provide a compliance summary which includes a summary table of toxicity data from at least eleven of the most recent samples.
- 6. The Discharger shall notify this Regional Board immediately of any toxicity exceedance and in writing 14 days after the receipt of the results of a monitoring limit or trigger. The notification will describe actions the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

V. INTERIM MONITORING

Pursuant to the California Water Code, Section 13267, the Discharger is required to submit data sufficient for determination of priority pollutants that require water quality-based effluent limitations. The Discharger shall conduct an interim monitoring program for all California Toxics Rule pollutants for three years, or until ordered otherwise by the Regional Board.

A. Effluent – Discharge No. 001.

Constituent	<u>Units</u>	Type of <u>Sample</u>	Minimum Frequency <u>of Analysis</u>
Arsenic	μg/L	grab	quarterly ¹
Beryllium	μg/L	grab	quarterly ¹
Cadmium	μg/L	grab	quarterly ¹
Nickel	μg/L	grab	quarterly ¹
Selenium	μg/L	grab	quarterly ¹
Silver	μg/L	grab	quarterly ¹
Antimony	μg/L	grab	quarterly ¹
Mercury	μg/L	grab	quarterly ¹
Thallium	μg/L	grab	quarterly ¹
Cyanide	μg/L	grab	quarterly ¹
Dieldrin	μg/L	grab	quarterly
4,4'-DDE	μg/L	grab	quarterly
4,4'-DDD	μg/L	grab	quarterly
Alpha-endosulfan	μg/L	grab	quarterly
Beta-endosulfan	μg/L	grab	quarterly
Endosulfan sulfate	μg/L	grab	quarterly
Endrin aldehyde	μg/L	grab	quarterly
Delta-BHC	μg/L	grab	quarterly
Benzidine	μg/L	grab	quarterly
1,2,4-trichlorobenzene	μg/L	grab	quarterly
Hexachlorobenzene	μg/L	grab	quarterly
1,4-dichlorobenzene	μg/L	grab	quarterly
3,3'-dichlorobenzidine	μg/L	grab	quarterly
2,4-dinitrotoluene	μg/L	grab	quarterly
2,6-dinitrotoluene	μg/L	grab	quarterly
1,2-diphenylhydrazine	μg/L	grab	quarterly
4-chlorophenyl phenyl ether	μg/L	grab	quarterly
4-bromophenyl phenyl ether	μg/L	grab	quarterly
Bis(2-chloroisopropyl) ether	μg/L	grab	quarterly
Bis(2-chloroethoxy) methane	μg/L	grab	quarterly
		Type of	Minimum Frequency
<u>Constituent</u>	<u>Units</u>	<u>Sample</u>	<u>of Analysis</u>

Hexachlorobutadiene	μg/L	grab	quarterly ¹
Hexachlorocyclopentadiene	ug/L	grab	quarterly ¹
Isophorone	μg/L	grab	quarterly ¹
Naphthalene	ug/L	grab	quarterly ¹
Nitrobenzene	ug/L	grab	
N-nitrosodimethvlamine	ug/L	grab	quarterly ¹
N-nitrosodi-n-propylamine	ua/L	grab	
N-nitrosodiphenylamine	ug/L	grab	quarterly ¹
Bis (2-ethylhexyl) phthalate	ug/L	grab	quarterly ¹
Butyl benzyl phthalate	ug/L	grab	quarterly ¹
Di-n-butyl phthalate	ug/L	grab	quarterly ¹
Di-n-octyl phthalate	ug/L	grab	quarterly ¹
Diethyl phthalate	ug/L	grab	quarterly ¹
Dimethyl phthalate	ug/L	grab	quarterly ¹
Acenaphthylene	ug/L	grab	quarterly ¹
Phenanthrene	ug/L	grab	quarterly ¹
1,2,5,6-dibenzanthracene	ug/L	grab	quarterly ¹
Indeno (1,2,3-cd) pyrene	ug/L	grab	quarterly ¹
Benzo(q,h,i)pervlene	ug/L	grab	quarterly ¹
Dibenz(a,h)anthracene	ug/L	grab	quarterly ¹
2,4,6-trichlorophenol	ug/L	grab	quarterly ¹
P-chloro-m-cresol	ug/L	grab	quarterly ¹
2-chlorophenol	ug/L	grab	
2,4-dichlorophenol	ug/L	grab	quarterly ¹
2,4-dimethylphenol	ug/L	grab	quarterly ¹
2-nitrophenol	ug/L	grab	quarterly ¹
4-nitrophenol	ug/L	grab	quarterly ¹
2,4-dinitrophenol	μg/L	grab	quarterly ¹
4,6-dinitro-o-cresol	ug/L	grab	quarterly ¹
Pentachlorophenol	ug/L	grab	quarterly ¹
Phenol	ug/L	grab	quarterly ¹
Acrolein	ug/L	grab	quarterly ¹
Acrylonitrile	μg/L	grab	quarterly ¹
Benzene	ug/L	grab	quarterly ¹
Carbon tetrachloride	ug/L	grab	quarterly ¹
Chlorobenzene	ug/L	grab	quarterly ¹
1,2-dichloroethane	μg/L	grab	quarterly ¹
1,1,1-trichloroethane	ug/L	grab	quarterly ¹
1,1-dichloroethane	ug/L	grab	quarterly ¹
	110	0	
		Type of	Minimum Frequency
<u>Constituent</u>	<u>Units</u>	<u>Sample</u>	of Analysis
		-	-
1,1,2-trichloroethane	μg/L	grab	quarterly
1,1,2,2-tetrachloroethane	μg/L	grab	quarterly ¹

Chloroethane Chloroform 1,1-dichloroethylene 1,2-trans-dichloroethylene 1,2-dichloropropane 1,2-dichloropropylene Ethylbenzene Methylene chloride Methyl chloride Methyl chloride Bromoform Bromodichloromethane Dibromochloromethane Tetrachloroethylene Toluene Trichloroethylene Vinyl chloride	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	grab grab grab grab grab grab grab grab	quarterly ¹ quarterly ¹
Toluene	μg/L	grab	quarterly ¹
Trichloroethylene	μg/L	grab	quarterly ¹
Vinvl chloride	μα/L	grab	quarterly ¹
Fluorene	μg/L	grab	quarterly ¹
2-chloroethyl vinyl ether	μg/L	grab	quarterly ¹
Xylenes	μg/L	grab	quarterly ¹
1,3-Dichloropropylene	μg/L	grab	quarterly'
2-Methyl-4,6-Dinitrophenol	μg/L	grab	quarterly ¹
3-Methyl-4-chlorophenol	μg/L	grab	quarterly ¹

¹ If the results of the sampling are nondetected for four consecutive sampling events, the frequency of analysis may be decreased to semiannually. However, if a result then exceeds the effluent limit, the frequency for that constituent will revert to quarterly.

B. Receiving Water

The monitoring stations shall be located 50 feet upstream and downstream of the point of discharge to Dominguez Channel (see Figure 1).

1. The following general observations or measurements at the receiving water

sampling locations shall be reported:

- a. Tidal stage, time, and date of monitoring
- b. General water conditions
- c. Color of the water
- d. Appearance of oil films or greases, or floatable materials
- e. Extent of visible turbidity or color patches
- f. Direction of tidal flow
- g. Description of odor, if any, of the receiving water
- h. Presence and activity of marine life
- i. Presence of the California Least Tern and California Brown Pelican.
- 2. Receiving water sampling shall include analysis for each of the following constituents:

			iviii iii iii iii iii iii iii iii iii i
		Type of	Frequency
<u>Constituent</u>	<u>Units</u>	Sample	of Analysis
		-	-
Hardness as	mg/L		quarterly
Calcium carbonate (CaCC	D ₃)		
Temperature	°F	grab	quarterly
Ha	pH Units	arab	quarterly
Acute toxicitv ³	% survival	arab	semiannually ²
Chronic toxicity ⁴	TUc ⁵	arab	semiannually ²
Oil and grease	ma/l	arab	semiannually ²
Turbidity	NTU	arab	semiannually ²
Total suspended solids	ma/l	grab	semiannually ²
Settleable solids	ml/l	grab	semiannually ²
Fecal coliform	MPN/100ml	grab	semiannually ²
Ammonia	ma/l	grab	semiannually ²
$BOD_{-}(20^{\circ}C)$	mg/L	arab	semiannually ²
Arsenic	ug/L	grab	semiannually ²
Bondlium	μg/∟ ug/l	grab	somiannually ²
Codmium	μg/∟ g/l	grab	semiannually ²
Niekol	μg/∟ α″	grab	semiannually
	μg/L	grab	semiannually
Selenium	μg/L	grab	semiannually
Silver	µg/∟	grab	semiannually
		- /	Minimum
		Type of	Frequency
<u>Constituent</u>	<u>Units</u>	<u>Sample</u>	<u>of Analysis</u>
Chromium	μg/L	grab	semiannually
Copper	μg/L	grab	semiannually
Lead	μg/L	grab	semiannually
Zinc	μg/L	grab	semiannually ²

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Chlordane		μg/L	grab	semiannually
Aldrin		μg/L	grab	semiannually
Acenaphth	ene	μg/L	grab	semiannually ²
Anthracene	e	μg/L	grab	semiannually ²
Benzo(a)ar	nthracene	μg/L	grab	semiannually ²
Benzo(a)py	/rene	μg/L	grab	semiannually ²
Benzo(b)flu	uoranthene	μg/L	grab	semiannually ²
Benzo(k)flu	oranthene	μg/L	grab	semiannually ²
Chrysene		μg/L	grab	semiannually ²
Dibenz(a,h)anthracene	μg/L	grab	semiannually ²
Dieldrin		μg/L	grab	semiannually ²
DDT		μg/L	grab	semiannually ²
Endrin		μg/L	grab	semiannually ²
Endosulfar	1	μg/L	grab	semiannually ²
Fluoranthe	ne	μg/L	grab	semiannually ²
Fluorene		μg/L	grab	semiannually ²
Heptachlor		μg/L	grab	semiannually ²
Heptachlor	epoxide	μg/L	grab	semiannually ²
alpha HCH	•	μg/L	grab	semiannually ²
beta HCH		μg/L	grab	semiannually ²
gamma HC	CH (lindane)	μg/L	grab	semiannually ²
Indeno(1,2	,3-cd)pyrene	μg/L	grab	semiannually ²
PCBs	, , , , , ,	μg/L	grab	semiannually ²
Pyrene		μg/L	grab	semiannuallv ²
Toxaphene	;	μg/L	grab	semiannuallv ²
		P*0	0	,

² Semiannual sampling - once during wet weather season (November 1 through April 30) and once during the dry weather season (May 1 through October 31).

⁴ Initial screening shall be conducted using a minimum of three test species with approved test protocols to determine the most sensitive test organism for chronic toxicity testing. The initial screening process shall be conducted for a minimum of three discharge events to account for potential variability of the effluent. If possible the test species used during the screening process should include a vertebrate, an invertebrate, and an aquatic plant. After the initial screening period, chronic toxicity testing may be limited to the most sensitive test species.

Dilution and control waters should be obtained from an unaffected area of the receiving waters. Standard dilution waters may be used if the above source exhibits toxicity greater than 1.0 TUc. The sensitivity of the test organisms to a reference toxicant shall be determined concurrently with each bioassay and reported with the test results.

 5 TUc = 100/NOEL, where NOEL (No Observed Effect Level) is expressed as the maximum percent effluent that causes no observable effect on an organism.

³ By the method specified in "Methods for Measuring the Acute Toxicity of Effluent to Freshwater and Marine Organisms" – September 1991, EPA/600/4-90/027. Submission of bioassay results should include the information noted on pages 70-73 of the "Methods". The fathead minnow (<u>Pimephales promelas</u>) shall be used as the test species.

C. MONITORING FOR TCDD EQUIVALENTS

The Discharger shall conduct effluent and receiving water monitoring for the presence of the 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD or Dioxin) congeners. The monitoring shall be conducted by collecting a grab sample with a minimum frequency of once during dry weather season (May 1 through October 31) and once during wet weather season (November 1 through April 30). The Discharger shall calculate a Toxic Equivalence (TEQ) for each congener by multiplying its analytical concentration by the appropriate Toxicity Equivalence Factors (TEF). Compliance with the dioxin limitation shall be determined by the summation of the 17 individual TEQs compared to the human health water quality limit for 2,3,7,8-TCDD, consumption of organisms only as defined in 40 CFR Part 131 (0.000000014 μ g/L).

<u>Congeners</u>	Toxicity Equivalence Factors
2.3.7.8-tetra CDD	1.0
1,2,3,7,8-penta CDD	1.0
1,2,3,4,7,8-hexa CDD	0.1
1,2,3,6,7,8-hexa CDD	0.1
1,2,3,7,8,9-hexa CDD	0.1
1,2,3,4,6,7,8-hepta CDD	0.01
Octa CDD	0.0001
2,3,7,8-tetra CDF	0.1
1,2,3,7,8-penta CDF	0.05
2,3,4,7,8-penta CDF	0.5
1,2,3,4,7,8-hexa CDF	0.1
1,2,3,6,7,8-hexa CDF	0.1
1,2,3,7,8,9-hexa CDF	0.1
2,3,4,6,7,8-hexa CDF	0.1
1,2,3,4,6,7,8-hepta CDF	0.01
1,2,3,4,7,8,9-hepta	0.01
Octa CDF	0.0001

VI. STORM WATER MONITORING AND REPORTING

The Discharger is covered under NPDES General Permit No. CAS000001 - Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities (WDID No. 4B19S002428). The Discharger shall comply with the requirements as stipulated in the aforementioned permit.

CA0059048 Order No. 01-041

Ordered by:

/CDO

Dennis A. Dickerson Executive Officer Date: March 29, 2001