CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. __________
FOR
COUNTY OF KERN
FOR
CLOSURE AND POST-CLOSURE MAINTENANCE
LOST HILLS SANITARY LANDFILL
KERN COUNTY

Compliance with this Monitoring and Reporting Program, with Title 27, California Code of Regulations, Section 20005, et seq. (hereafter Title 27), and with the Standard Provisions and Reporting Requirements for Waste Discharge Requirements for Nonhazardous Solid Waste Discharges Regulated by Title 27 and/or Subtitle D (27 CCR §§20005 et seq. and 40 CFR 258), dated April 2000, is ordered by Waste Discharge Requirements Order No. ________.

A. REQUIRED MONITORING REPORTS

Report                                             Due
1. Groundwater Monitoring (Section D.1)            See Table I
2. Annual Monitoring Summary Report (Section E.5.) Annually
3. Leachate Monitoring (Section D.2)               See Table II
4. Facility Monitoring (Section D.4)               As necessary
5. Response to a Release                           As necessary
   (Standard Provisions and Reporting Requirements)

B. REPORTING

The Discharger shall report monitoring data and information as required in this Monitoring and Reporting Program and as required in Order No. ______ and the Standard Provisions and Reporting Requirements. Reports which do not comply with the required format will be REJECTED and the Discharger shall be deemed to be in noncompliance with the waste discharge requirements. In reporting the monitoring data required by this program, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. The data shall be summarized in such a manner so as to illustrate clearly the compliance with waste discharge requirements or the lack thereof. Data shall also be submitted in a digital format acceptable to the Executive Officer.

Each monitoring report shall include a compliance evaluation summary as specified in
E. Reporting Requirements, of this Monitoring and Reporting Program.

Field and laboratory tests shall be reported in each monitoring report. Monthly, quarterly, semiannual, and annual monitoring reports shall be submitted to the Central Valley Water Board in accordance with the following schedule for the calendar period in which samples were taken or observations made.

<table>
<thead>
<tr>
<th>Sampling Frequency</th>
<th>Reporting Frequency</th>
<th>Reporting Periods End</th>
<th>Report Date Due</th>
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<tbody>
<tr>
<td>Monthly</td>
<td>Quarterly</td>
<td>Last Day of Month</td>
<td>by Semiannual Schedule</td>
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<tr>
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<td>Quarterly</td>
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<td>30 June</td>
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<td></td>
<td></td>
<td>31 December</td>
<td>31 May</td>
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<td>Semiannually</td>
<td>Semiannually</td>
<td>31 March</td>
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<tr>
<td></td>
<td></td>
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<td>30 November</td>
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<tr>
<td>Annually</td>
<td>Annually</td>
<td>31 December</td>
<td>30 April</td>
</tr>
</tbody>
</table>

The Discharger shall submit an Annual Monitoring Summary Report to the Central Valley Water Board covering the previous monitoring year. The annual report shall contain the information specified in E. Reporting Requirements, of this Monitoring and Reporting Program, and a discussion of compliance with the waste discharge requirements and the Water Quality Protection Standard.

The results of all monitoring conducted at the site shall reported to the Central Valley Water Board in accordance with the reporting schedule above for the calendar period in which samples were taken or observations made.

C. WATER QUALITY PROTECTION STANDARD AND COMPLIANCE PERIOD

1. Water Quality Protection Standard Report

   For each waste management unit (Unit), the Water Quality Protection Standard shall consist of all constituents of concern, the concentration limit for each constituent of concern, the point of compliance, and all water quality monitoring points. The Executive Officer shall review and approve the Water Quality Protection Standard, or any modification thereto, for each monitored medium.

   The report shall:
a. Identify **all distinct bodies of surface and ground water** that could be affected in the event of a release from a Unit or portion of a Unit. This list shall include at least the uppermost aquifer and any permanent or ephemeral zones of perched groundwater underlying the facility.

b. Include a map showing the monitoring points and background monitoring points for the surface water monitoring program, groundwater monitoring program, and the unsaturated zone monitoring program. The map shall include the point of compliance in accordance with §20405 of Title 27.

c. Evaluate the perennial direction(s) of groundwater movement within the uppermost groundwater zone(s).

If subsequent sampling of the background monitoring point(s) indicates significant water quality changes due to either seasonal fluctuations or other reasons unrelated to waste management activities at the site, the Discharger may request modification of the Water Quality Protection Standard.

2. **Constituents of Concern**

The constituents of concern include all the waste constituents, their reaction products, and hazardous constituents that are reasonably expected to be in or derived from waste contained in the Unit. The constituents of concern for all Units at the facility are those listed in Tables I through IV for the specified monitored medium. The Discharger shall monitor all constituents of concern every five years, or more frequently as required in accordance with a Corrective Action Program.

a. **Monitoring Parameters**

Monitoring parameters are constituents of concern that are the waste constituents, reaction products, hazardous constituents, and physical parameters that provide a reliable indication of a release from a Unit. The monitoring parameters for all Units are those listed in Tables I through III for the specified monitored medium.

3. **Concentration Limits**

For a naturally occurring constituent of concern, the concentration limit for each constituent of concern shall be determined as follows:

a. By calculation in accordance with a statistical method pursuant to §20415 of Title 27; or

b. By an alternate statistical method acceptable to the Executive Officer in accordance with §20415 of Title 27.
c. Intra-well comparison methods shall be used at all compliance wells for all monitoring parameters that are subject to data analysis under this order.

d. Initially, for each given monitoring parameter at a given monitoring well, the proposed background data set shall consist of all validated data from that compliance well for the previous sixteen monitoring events. Every two years, following the adoption of this Monitoring and Reporting Program, as part of the annual monitoring summary report [see 27CCR §20415(e)(14)], the Discharger shall add the newer data to the background data set for each well after validating (via a method approved by the Executive Officer) that the new data does not contain data indicating a statistically significant increase over the existing background data. The Discharger shall validate the proposed intra-well background data set as follows for each well (initially) or, subsequently, at a new well. The Discharger shall report the validated or updated background data set, for each well in the next scheduled monitoring report.

e. The initial background concentrations established for the Unit are contained in Table V.

4. Point of Compliance

The point of compliance for the water standard at each Unit is a vertical surface located at the hydraulically downgradient limit of the Unit that extends through the uppermost aquifer underlying the Unit.

5. Compliance Period

The compliance period for each Unit shall be the number of years equal to the active life of the Unit plus the closure period. The compliance period is the minimum period during which the Discharger shall conduct a water quality monitoring program subsequent to a release from the Unit. The compliance period shall begin anew each time the Discharger initiates an evaluation monitoring program.

D. MONITORING

The Discharger shall comply with the detection monitoring program provisions of Title 27 for groundwater, surface water, and the unsaturated zone, in accordance with Detection Monitoring Specification D.1 and D.6 of Waste Discharge Requirements, Order No. __________. All monitoring shall be conducted in accordance with a Sample Collection and Analysis Plan, which includes quality assurance/quality control standards, that is acceptable to the Executive Officer.

All point of compliance monitoring wells established for the detection monitoring program shall constitute the monitoring points for the groundwater Water Quality Protection Standard. All detection monitoring program groundwater monitoring wells, unsaturated zone monitoring
devices, leachate, and surface water monitoring points shall be sampled and analyzed for monitoring parameters and constituents of concern as indicated and listed in Tables I through IV.

Method detection limits and practical quantitation limits shall be reported. All peaks shall be reported, including those which cannot be quantified and/or specifically identified. Metals shall be analyzed in accordance with the methods listed in Table IV.

The Discharger may, with the approval of the Executive Officer, use alternative analytical test methods, including new USEPA approved methods, provided the methods have method detection limits equal to or lower than the analytical methods specified in this Monitoring and Reporting Program.

1. Groundwater

The Discharger shall install and operate a groundwater detection monitoring system that complies with the applicable provisions of §20415 and §20420 of Title 27 in accordance with a Detection Monitoring Program approved by the Executive Officer. The Discharger shall collect, preserve, and transport groundwater samples in accordance with the approved Sample Collection and Analysis Plan.

The Discharger shall determine the groundwater flow rate and direction in the uppermost aquifer and in any zones of perched water and in any additional zone of saturation monitored pursuant to this Monitoring and Reporting Program, and report the results semiannually, including the times of highest and lowest elevations of the water levels in the wells.

Hydrographs of each well shall be submitted showing the elevation of groundwater with respect to the elevations of the top and bottom of the screened interval and the elevation of the pump intake. Hydrographs of each well shall be prepared quarterly and submitted annually.

Groundwater samples shall be collected from the point-of-compliance wells, background wells, and any additional wells added as part of the approved groundwater monitoring system. Samples shall be collected and analyzed for the monitoring parameters in accordance with the methods and frequency specified in Table I.

The monitoring parameters shall also be evaluated each reporting period with regards to the cation/anion balance, and the results shall be graphically presented using a Stiff diagram, a Piper graph, or a Schoellner plot. Samples for the constituents of concern specified in Table I shall be collected and analyzed in accordance with the methods listed in Table IV every five years.

2. Leachate Monitoring
Leachate which seeps to the surface from the Unit shall be sampled and analyzed for the constituents listed in Table II upon detection. The quantity of leachate shall be estimated and reported as Leachate Flow Rate (in gallons/day).

3. Final Cover Monitoring

The Discharger shall monitor the final cover in accordance with the provisions in the Final Closure Plan and the Post-Closure Maintenance Plan. The pan lysimeter(s) shall be checked for the presence of water on a quarterly basis. The volume of water discovered in the lysimeter(s) shall be reported in the Annual Monitoring Summary Report.

4. Facility Monitoring

a. Facility Inspection

Annually, prior to the anticipated rainy season, but no later than 30 September, the Discharger shall conduct an inspection of the facility. The inspection shall assess damage to the drainage control system, groundwater monitoring equipment (including wells, etc.), and shall include the Standard Observations contained in section E.3.f. of this Monitoring and Reporting Program. Any necessary construction, maintenance, or repairs shall be completed by 31 October. By 15 November of each year, the Discharger shall submit an annual report describing the results of the inspection and the repair measures implemented, including photographs of the problem and the repairs.

b. Storm Events

The Discharger shall inspect all precipitation, diversion, and drainage facilities for damage within 7 days following major storm events. Necessary repairs shall be completed within 30 days of the inspection. The Discharger shall report any damage and subsequent repairs within 45 days of completion of the repairs, including photographs of the problem and the repairs.

E. REPORTING REQUIREMENTS

1. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, all original strip chart recordings of continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained throughout the life of the facility including the post closure period.

Such legible records shall show the following for each sample:
a. Sample identification and the Monitoring point or Background Monitoring Point from which it was taken, along with the identity of the individual who obtained the sample;

b. Date, time, and manner of sampling;

c. Date and time that analyses were started and completed, and the name of the personnel and laboratory performing each analysis;

d. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used;

e. Calculation of results; and

f. Results of analyses, and the MDL and PQL for each analysis.

2. A transmittal letter explaining the essential points shall accompany each report. At a minimum, the transmittal letter shall identify any violations found since the last report was submitted, and if the violations were corrected. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter. The transmittal letter shall also state that a discussion of any violations found since the last report was submitted, and a description of the actions taken or planned for correcting those violations, including any references to previously submitted time schedules, is contained in the accompanying report.

3. Each monitoring report shall include a compliance evaluation summary. The summary shall contain at least:

a. For each Monitoring Point and Background Monitoring Point addressed by the report, a description of:

1) the time of water level measurement;

2) the type of pump - or other device - used for purging and the elevation of the pump intake relative to the elevation of the screened interval;

3) the method of purging (the pumping rate, the equipment and methods used to monitor field pH, temperature, and conductivity during purging, the calibration of the field equipment, results of the pH, temperature, conductivity, and turbidity testing, and the method of disposing of the purge water) to remove all portions of the water that was in the well bore while the sample was being taken;

4) the type of pump - or other device - used for sampling, if different than the pump or device used for purging; and
5) a statement that the sampling procedure was conducted in accordance with the Sampling and Analysis Plan approved by the Executive Officer.

b. A map or aerial photograph showing the locations of observation stations, Monitoring Points, and Background Monitoring Points.

c. For each groundwater body, a description and graphical presentation of the gradient and direction of groundwater flow under/around the Unit, based upon water level elevations taken prior to the collection of the water quality data submitted in the report.

d. Laboratory statements of results of all analyses evaluating compliance with requirements.

e. An evaluation of the effectiveness of the leachate monitoring and control facilities, and of the run-off/run-on control facilities.

f. A summary and certification of completion of all **Standard Observations** for the Unit(s), for the perimeter of the Unit, and for the receiving waters. The Standard Observations shall include:

1) For the Unit:
   a) Evidence of ponded water at any point on the facility (show affected area on map);
   b) Evidence of odors: presence or absence, characterization, source, and distance of travel from source; and
   c) Evidence of erosion and/or of day-lighted refuse.

2) Along the perimeter of the Unit:
   a) Evidence of liquid leaving or entering the Unit, estimated size of affected area, and flow rate (show affected area on map);
   b) Evidence of odors: presence or absence, characterization, source, and distance of travel from source; and
   c) Evidence of erosion and/or of day-lighted refuse.

g. The quantity and types of wastes discharged and the locations in the Unit where waste has been placed since submittal of the last such report.

4. The Discharger shall report by telephone any seepage from the disposal area **immediately** after it is discovered. A written report shall be filed with the Central Valley Water Board within **seven days**, containing at least the following information:
a. A map showing the location(s) of seepage;

b. An estimate of the flow rate;

c. A description of the nature of the discharge (e.g., all pertinent observations and analyses);

d. Verification that samples have been submitted for analyses of the Constituents of Concern and Monitoring Parameters, and an estimated date that the results will be submitted to the Central Valley Water Board; and

e. Corrective measures underway or proposed, and corresponding time schedule.

5. The Discharger shall submit an Annual Monitoring Summary Report to the Central Valley Water Board covering the reporting period of the previous monitoring year. This report shall contain:

a. All monitoring parameters and constituents of concern shall be graphed so as to show historical trends at each Monitoring Point and Background Monitoring Point, for all samples taken within at least the previous five calendar years. Each such graph shall plot the concentration of one or more constituents for the period of record for a given Monitoring Point or Background Monitoring Point, at a scale appropriate to show trends or variations in water quality. The graphs shall plot each datum, rather than plotting mean values. For any given constituent or parameter, the scale for background plots shall be the same as that used to plot downgradient data. Graphical analysis of monitoring data may be used to provide significant evidence of a release.

b. Unless otherwise exempted by the Executive Officer, all monitoring analytical data obtained during the previous two six-month reporting periods, shall be presented in tabular form as well as in a digital file format acceptable to the Executive Officer. The Central Valley Water Board regards the submittal of data in hard copy and in digital format as “...the form necessary for...” statistical analysis [§20420(h)], in that this facilitates periodic review by the Central Valley Water Board.

c. A comprehensive discussion of the compliance record, and the result of any corrective actions taken or planned which may be needed to bring the Discharger into full compliance with these waste discharge requirements.

d. A map showing the area and elevations in which filling has been completed during the previous calendar year.

e. A written summary of the monitoring results, indicating any changes made or observed since the previous annual report.

f. An evaluation of the effectiveness of the leachate monitoring/control facilities.
The Discharger shall implement the above monitoring program on the effective date of this Program.

Ordered by: ________________________________
PAMELA C. CREEDON, Executive Officer

__________________________________________
(Date)

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TABLE III

MONITORING PARAMETERS FOR DETECTION MONITORING

Surrogates for Metallic Constituents:

- pH
- Total Dissolved Solids
- Electrical Conductivity
- Chloride
- Sulfate
- Nitrate nitrogen

Constituents included in VOC:

**USEPA Method 8260**

- Acetone
- Acrylonitrile
- Benzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform (Tribromomethane)
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane (Ethyl chloride)
- Chloroform (Trichloromethane)
- Dibromochloromethane (Chlorodibromomethane)
- 1,2-Dibromo-3-chloropropene (DBCP)
- 1,2-Dibromoethane (Ethylene dibromide; EDB)
- o-Dichlorobenzene (1,2-Dichlorobenzene)
- p-Dichlorobenzene (1,4-Dichlorobenzene)
- trans-1,4-Dichloro-2-butene
- Dichlorodifluoromethane (CFC-12)
- 1,1-Dichloroethane (Ethylidene chloride)
- 1,2-Dichloroethane (Ethylene dichloride)
- 1,1,1-Trichloroethylene (1,1,1-Trichloroethane; Vinyl chloride)
- cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)
- trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)
- 1,2-Dichloropropane (Propylene dichloride)
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- 2-Hexanone (Methyl butyl ketone)
- Methyl bromide (Bromomethane)
TABLE III

MONITORING PARAMETERS FOR DETECTION MONITORING

Continued

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<td>Methylene chloride (Dichloromethane)</td>
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<td>Methyl iodide (Iodomethane)</td>
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<td>4-Methyl-2-pentanone (Methyl isobutylketone)</td>
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<td>Trichlorofluoromethane (CFC- 11)</td>
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<tr>
<td>1,2,3-Trichloropropene</td>
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<tr>
<td>Vinyl acetate</td>
</tr>
<tr>
<td>Vinyl chloride</td>
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<tr>
<td>Xylenes</td>
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### TABLE IV

**CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS**

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<th>Inorganics (dissolved):</th>
<th>USEPA Method</th>
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<td>Copper</td>
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<td>Silver</td>
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<td>Tin</td>
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<tr>
<td>Vanadium</td>
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<td>Zinc</td>
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<td>Iron</td>
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<td>Manganese</td>
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<td>Selenium</td>
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<td>Thallium</td>
<td>7841</td>
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<tr>
<td>Cyanide</td>
<td>9010</td>
</tr>
<tr>
<td>Sulfide</td>
<td>9030</td>
</tr>
</tbody>
</table>

**Volatile Organic Compounds:**

- **USEPA Method 8260**
  - Acetone
  - Acetonitrile (Methyl cyanide)
  - Acrolein
  - Acrylonitrile
  - Allyl chloride (3-Chloropropene)
  - Benzene
  - Bromochloromethane (Chlorobromomethane)
  - Bromodichloromethane (Dibromochloromethane)
  - Bromoform (Tribromomethane)
  - Carbon disulfide
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane (Ethyl chloride)
  - Chloroform (Trichloromethane)
  - Chloroprene
  - Dibromochloromethane (Chlorodibromomethane)
TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Continued

1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (Ethylene dibromide; EDB)
\( \alpha \)-Dichlorobenzene (1,2-Dichlorobenzene)
\( m \)-Dichlorobenzene (1,3-Dichlorobenzene)
\( p \)-Dichlorobenzene (1,4-Dichlorobenzene)
trans-1,4-Dichloro-2-butene
Dichlorodifluoromethane (CFC 12)
1,1-Dichloroethane (Ethylidene chloride)
1,2-Dichloroethane (Ethylene dichloride)
1,1-Dichloroethylene (Ethylene dichloride)
cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)
trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)
1,2-Dichloropropane (Propylene dichloride)
1,3-Dichloropropane (Trimethylene dichloride)
2,2-Dichloropropene (Isopropylidene chloride)
1,1-Dichloropropene
cis-1,3-Dichloropropene
tans-1,3-Dichloropropene
Ethylbenzene
Ethyl methacrylate
Hexachlorobutadiene
2-Hexanone (Methyl butyl ketone)
Isobutyl alcohol
Methacrylonitrile
Methyl bromide (Bromomethane)
Methyl chloride (Chloromethane)
Methyl ethyl ketone (MEK; 2-Butanone)
Methyl iodide (Iodomethane)
Methyl methacrylate
4-Methyl-2-pentanone (Methyl isobutyl ketone)
Methylene bromide (Dibromomethane)
Methylene chloride (Dichloromethane)
Naphthalene
Propionitrile (Ethyl cyanide)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE)
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane, Methylchloroform
1,1,2-Trichloroethane
Trichloroethylene (Trichloroethene; TCE)
Trichlorofluoromethane (CFC-11)
1,2,3-Trichloropropane
TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Continued

Vinyl acetate
Vinyl chloride (Chloroethene)
Xylene (total)

Semi-Volatile Organic Compounds:

**USEPA Method 8270 - base, neutral, & acid extractables**

- Acenaphthene
- Acenaphthylene
- Acetophenone
- 2-Acetylaminofluorene (2-AAF)
- Aldrin
- 4-Aminobiphenyl
- Anthracene
- Benzo[a]anthracene (Benzanthracene)
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- Benzylic alcohol
- Bis(2-ethylhexyl) phthalate
- alpha-BHC
- beta-BHC
- delta-BHC
- gamma-BHC (Lindane)
- Bis(2-chloroethoxy)methane
- Bis(2-chloroethyl) ether (Dichloroethyl ether)
- Bis(2-chloro-1-methylethyl) ether (Bis(2-chloroisopropyl) ether; DCIP)
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate (Benzyl butyl phthalate)
- Chlordane
- p-Chloroaniline
- Chlorobenzilate
- p-Chloro-m-cresol (4-Chloro-3-methylphenol)
- 2-Chloronaphthalene
- 2-Chlorophenol
- 4-Chlorophenyl phenyl ether
- Chrysene
- o-Cresol (2-methylphenol)
- m-Cresol (3-methylphenol)
- p-Cresol (4-methylphenol)
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
### TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Continued

- Diallate
- Dibenz[a,h]anthracene
- Dibenzofuran
- Di-n-butyl phthalate
- o-Dichlorobenzene (1,2-Dichlorobenzene)
- m-Dichlorobenzene (1,3-Dichlorobenzene)
- p-Dichlorobenzene (1,4-Dichlorobenzene)
- 3,3’-Dichlorobenzidine
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- Dieldrin
- Diethyl phthalate
- p-(Dimethylamino)azobenzene
- 7,12-Dimethylbenz[a]anthracene
- 3,3’-Dimethylbenzidine
- 2,4-Dimethylphenol (m-Xylenol)
- Dimethyl phthalate
- m-Dinitrobenzene
- 4,6-Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl phthalate
- Diphenylamine
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Ethyl methanesulfonate
- Famphur
- Fluoranthenes
- Fluorene
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Hexachloropropene
- Indeno(1,2,3-c,d)pyrene
- Isodrin
- Isophorone
- Isosafrole
- Kepone
### TABLE IV

**CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS**

Continued

Methapyrilene  
Methoxychlor  
3-Methylcholanthrene  
Methyl methanesulfonate  
2-Methylnaphthalene  
Naphthalene  
1,4-Naphthoquinone  
1-Naphthylamine  
2-Naphthylamine  
o-Nitroaniline (2-Nitroaniline)  
m-Nitroaniline (3-Nitroaniline)  
p-Nitroaniline (4-Nitroaniline)  
Nitrobenzene  
o-Nitrophenol (2-Nitrophenol)  
p-Nitrophenol (4-Nitrophenol)  
N-Nitrosodi-n-butylamine (Di-n-butylnitrosamine)  
N-Nitrosodiethylamine (Diethyl nitrosamine)  
N-Nitrosodimethylamine (Dimethylnitrosamine)  
N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)  
N-Nitrosomethylene (Methylethylnitrosamine)  
N-Nitrosopiperidine  
N-Nitrosospyrrolidine  
5-Nitro-o-toluidine  
Pentachlorobenzene  
Pentachloronitrobenzene (PCNB)  
Pentachlorophenol  
Phenacetin  
Phenanathrene  
Phenol  
p-Phenylenediamine  
Polychlorinated biphenyls (PCBs; Aroclors)  
Pronamidine  
Pyrene  
Safrole  
1,2,4,5-Tetrachlorobenzene  
2,3,4,6-Tetrachlorophenol  
o-Toluidine  
Toxaphene  
1,2,4-Trichlorobenzene  
2,4,5-Trichlorophenol  
0,0,0-Triethyl phosphorothioate  
sym-Trinitrobenzene
**TABLE IV**

**CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS**  
Continued

**Chlorophenoxy Herbicides:**

**USEPA Method 8150**  
2,4-D (2,4-Dichlorophenoxyacetic acid)  
Dinoseb (DNBP; 2-sec-Butyl-4,6-dinitrophenol)  
Silvex (2,4,5-Trichlorophenoxypropionic acid; 2,4,5-TP)  
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)

**Organophosphorus Compounds:**

**USEPA Method 8141**  
0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)  
Dimethoate  
Disulfoton  
Methyl parathion (Parathion methyl)  
Parathion  
Phorate
### TABLE V

**WATER QUALITY PROTECTION STANDARD INITIAL CONCENTRATION LIMITS**

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<th>Parameter</th>
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<td>Nitrate - Nitrogen</td>
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