

Kevin M. Sullivan Hinkley Remediation Project Manager Shared Services Dept 3401 Crow Canyon Rd San Ramon, CA 94583 (925) 818-9069 (cell) kmsu@pge.com

January 20, 2012

Ms. Lauri Kemper, Assistant Executive Officer Ms. Lisa Dernbach, Senior Engineering Geologist California Regional Water Quality Control Board, Lahontan Region 2501 Lake Tahoe Boulevard South Lake Tahoe, California 96150

Subject: Investigative Order No. R6V-2011-0105, Request For Information On Laboraotry Quality Control Data For 2007 Background Study Report, Pacific Gas And Electric Company, Hinkley Compressor Station, San Bernadino County

Dear Ms. Kemper and Ms. Dernbach:

Pacific Gas and Electric Company (PG&E) respectfully submits the enclosed Technical Memoradum, which presents the response to Investigative Order No. R6V-2011-0105, issued by the Regional Water Quality Control Board, Lahontan Region (Water Board) on December 29, 2011. This Order requested responses to nine specific comments related to laboratory quality control data for Hinkley Groundwater Background Study Report (CH2M Hill, 2007) and requested submittal of the raw analytical data, which is provided on a compact disc (CD). In addition, the Technical Memoradum presents responses to comments provided by Dr. Stuart Nagourney in the Peer Review received by the Water Board on October 14, 2011.

Please contact me if you have questions regarding the information provided in the enclosed Technical Memorandum.

Sincerely,

Kevin Sullivan

Hinkley Remediation Project Manager

Attachments:

Technical Memorandum – Response to Investigative Order No. R6V-2011-0105 and Peer Review Comments on Laboratory Quality Control Data for 2007 Groundwater Background Study Report, Hinkley Remediation Project

Compact Disc (CD) – Hexavalent Chromium Analytical Data, Truesdail Laboratories, Inc. and EMAX Laboratories, Hinkley Groundwater Background Study (CH2M HILL, 2007)

Response to Investigative Order No. R6V-2011-0105 and Peer Review Comments on Laboratory Quality Control Data for 2007 Groundwater Background Study Report, Hinkley Remediation Project

PREPARED FOR: Pacific Gas and Electric Company

COPY TO: Eliana Makhlouf

Shawn Duffy

PREPARED BY: CH2M HILL

DATE: January 19, 2012

PROJECT NUMBER: 432629

This technical memorandum presents the response to Investigative Order No. R6V-2011-0105 issued by the California Regional Water Quality Control Board, Lahontan Region (Water Board) (Water Board, 2011), which requested information on laboratory quality control data for the Groundwater Background Study Report (CH2M HILL, 2007), prepared on behalf of Pacific Gas and Electric Company (PG&E) for the Hinkley Remediation Project. In addition, this memorandum presents responses to comments provided by Dr. Nagourney in the Peer Review received by the Water Board on October 14, 2011.

The responses to questions one through nine in Investigative Order R6V-2011-0105 are provided below.

1) **Comment:** For the continuing calibration verification (CCV) failures for EPA Method SW 7199, discuss what percentage out of range were the CCV recoveries.

Response: During the first Groundwater Background Study sampling event, (January/February 2006) all Method SW 7199 sample analyses were performed by Truesdail Laboratories, Inc. (TLI) and the CCV recoveries for all analyses were within the method criteria of 90 – 110% recovery.

For the three subsequent sampling events, all Method SW7199 sample analyses were performed by EMAX Laboratory (EMAX). Of the 129 sample analyses performed by EMAX, 31 (26 samples and 5 field duplicates) or 24 percent had one or more of the bracketing CCVs with recoveries that were outside the method criteria. CCV recoveries for the out of control sample analyses ranged from a low of 72 percent to a high of 123 percent with 19 results biased low and 12 biased high. In accordance with the PG&E program Quality Assurance Project Plan (QAPP) (CH2M HILL, 2008) that cites USEPA National Functional Guidelines for Inorganic Data Review (2002), the range of the out of control CCV recoveries was not significant enough to warrant data rejection, but did require data qualification by applying "J/UJ" flags to out of control results. Therefore, the results were determined to be of sufficient quality to be used for purposes of the Groundwater Background Study.

2) **Comment:** Provide raw data, calibration curves, CCVs, and quality control (QC) samples, from hexavalent chromium analysis.

Response: All analytical data for hexavalent chromium are provided on the enclosed CD. The data are organized by sample delivery groups (SDGs) provided to CH2M HILL by the laboratories. There are 17 SDGs from EMAX and four SDGs from TLI. The table below identifies each SDG number associated with hexavalent chromium analysis associated with the Groundwater Background Study.

EMAX SDG Numbers	TLI SDG Numbers
06D180, 06D191, 06D205, 06D215, 06G152, 06G165, 06G182, 06G200, 06I248, 06I262, 06I280, 06J236, 06J257, 06J279, 06K142, 06K156, 06K180	951265, 951327, 951368, 951421

3) **Comment:** Provide information on matrix spike amounts and recoveries for hexavalent chromium.

Response: The spike concentration at TLI for hexavalent chromium was 1.0 microgram per liter (μ g/L). There were four SDGs of data with three different site specific matrix spike samples in three of the four SDGs. The SDG without the site specific matrix spike has a matrix spike completed on a non-site sample. The recoveries were all in control with 98, 94, and 106 percent recovery. The acceptance limits used by the laboratory were 90-110 percent. The concentration of the matrix spike was five times the reporting level and applicable to the majority of sample concentrations determined over the study.

The spike concentration at EMAX Laboratory for hexavalent chromium was 1.0 μ g/L. There were 17 SDGs of data with 18 different site specific matrix spike samples in 15 of the 17 SDGs. The SDG without the site specific matrix spike has a matrix spike completed on a non-site sample. The recoveries were predominantly in control ranging from 76 to 115 percent recovery. The acceptance limits used by the laboratory were 85-115 percent. Two of the 18 matrix spikes were out of control with a low bias but still provide data that met project data quality objectives for evaluating background hexavalent chromium concentrations. The concentration of the matrix spike was five times the reporting level and applicable to the majority of sample concentrations determined over the study.

4) **Comment:** A description of how samples were chosen for matrix spiking.

Response: The matrix spikes were randomly selected by the laboratory as part of the analytical batch control requirements.

5) **Comment:** Provide evidence that Mid-Range Calibration Check Standards (MRCCSs) were prepared from a second source standard. Provide National Institute of Standards Traceability (NIST) documentation for MRCCSs.

Response: MRCCSs were prepared from a different lot number source from the initial calibration stock at TLI as well as at EMAX Laboratory as shown in files provided on the attached CD. This same standards traceability documentation is also available in each of the SDGs provided in response to Question Number 2.

6) **Comment:** Verify which calibration curve was used for EPA Method 6010B (was the standard or low level calibration curve used?). Provide documentation showing calibration curve.

Response: Method 6010B was not used by either lab for the Hinkley Groundwater Background Study rather Method 6020 was used for total chromium analysis as explained in the response to Question Number 9.

7) **Comment:** Provide valid California Environmental Laboratory Accreditation Program (ELAP) certificates for each lab for total and hexavalent chromium analysis for the calendar year 2006.

Response: Both TLI and EMAX were ELAP certified in 2006. Copies of the certifications for 2006 are provided in Attachment A.

8) **Comment:** Discuss why EPA Method 6800 was not used for chromium species identification.

Response: The Hinkley Background Study was conducted from January to November 2006 and therefore pre-dated the promulgation of Method 6800, which was posted in February 2007.

9) **Comment:** Discuss why EPA method 6020A was used instead of Method 6010 for total chromium.

Response: USEPA method 6020A achieves a lower level of detection for total chromium than that of EPA Method 6010B and therefore was used for the project.

Attachment B to this technical memorandum provides additional responses to comments provided by Dr. Nagourney regarding the quality control procedures used by the laboratory for chromium analysis. In summary, based on a review of the laboratory methods and data obtained for the study, the quality of the laboratory analysis performed for the study was appropriate and met all of the requirements of the USEPA methods employed. The issues raised by the reviewer can be explained by 1) the incomplete answers provided to the reviewer by the laboratories, 2) expectations of the reviewer for quality control measures that were slightly different or beyond the requirements of the USEPA methods, or 3) a misunderstanding on the part of the reviewer about which methods were applied to the data set. As summarized in Attachment B, the data yielded through these analyses are deemed of high quality and the use of these data for the purposes of the background study was appropriate. A detailed response to comments on the laboratory chemistry comments is provided in Attachment B.

References

CH2M Hill. 2007. Groundwater Background Study Report, Hinkley Compressor Station, Hinkley, California. February.

. 2008. *PG&E Program Quality Assurance Project Plan*. December.

United States Environmental Protection Agency (USEPA). 2002. USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Superfund Data Review.* July.

Regional Water Quality Control Board, Lahontan Region (Water Board), 2011. Investigative Order R6V-2011-0105, Request for Information on Laboratory Quality Control Data for 2007 Groundwater Background Study Report, Pacific Gas and Electric Company (PG&E), Hinkley Compressor Station, San Bernardino County. December.

Attachments

Attachment A California ELAP Certificates for Truesdail Laboratories, Inc. and EMAX

Laboratories

Attachment B Response to Comments on Laboratory Chemistry and Quality Control Data Compact Disc (CD) Hexavalent Chromium Analytical Data, Truesdail Laboratories, Inc. and EMAX

Laboratories, Hinkley Groundwater Background Study (CH2M HILL, 2007)

Attachment A California ELAP Certificates - Truesdail Laboratories, Inc. and EMAX Laboratories





STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

ENVIRONMENTAL LABORATORY CERTIFICATION

Is hereby granted to

TRUESDAIL LABORATORIES, INC.

14201 FRANKLIN AVENUE

TUSTIN, CA 92780

Scope of certification is limited to the "Accredited Fields of Testing" which accompanies this Certificate.

Continued certification status depends on successful completion of site visit, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No:

1237

Expiration Date:

07/31/2006

Effective Date:

07/01/2004

Berkeley, California subject to forfeiture or revocation.

George C. Kulasingam, Ph.D.

Program Chief

Environmental Laboratory Accreditation Program



State of California—Health and Human Services Agency

Department of Health Services



ARNOLD SCHWARZENEGGER
Governor

Certificate No.: 1237

July 1, 2004

NORMAN E. HESTER, Ph.D TRUESDAIL LABORATORIES, INC. 14201 FRANKLIN AVENUE TUSTIN, CA 92780

Dear NORMAN E. HESTER, Ph.D:

This is to advise you that the laboratory named above continues to be certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.). Certification for all currently certified Fields of Testing that the laboratory has applied for renewal shall remain in effect until **07/31/2006** unless revoked.

Please note that the renewal application for certification is subject to an on-site visit, and continued use of the certificate is contingent upon:

* successful completion of the site visit;

* acceptable performance in the required performance evaluation (PE) studies;

* timely payment of all fees, including an annual fee due before July 31, 2005;

* compliance with Environmental Laboratory Accreditation Program (ELAP) statutes (HSC, Section 100825, et seq.) and Regulations (California Code of Regulations (CCR), Title 22, Division 4, Chapter 19).

An updated "Approved Fields of Testing" will be issued to the laboratory upon completion of the renewal process. The application for the next renewal must be received 90 days before the expiration of this certificate to remain in force according to the CCR, Section 64801 through 64827.

Please note that the laboratory is required to notify ELAP of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (HSC, Section 100845(b)(d)). Please include the above certificate number in all your correspondence to ELAP.

If you have any questions, please contact ELAP at (510) 540-2800.

Sincerely,

George C. Kulasingam, Ph.D.

Program Chief

Environmental Laboratory Accreditation Program

DECENNE SEP 0 2 2004

CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

List of Approved Fields of Testing and Analytes

Certificate No. 14201 FRANKLIN AVENUE PHONE No. (714) 730-6239 TUSTIN, CA COUNTY ORANGE 01 Microbiology of Drinking Water and Wastewater - Total and Fecal Coliform in Drinking Water by Multiple Tube Fermentation 01.02A Total and Fecal Coliform in Drinking Water by Membrane Filtration 01.03 Total Coliform and E. coli in Drinking Water by Chromogenic/Fluorogenic Substrate Total and Fecal Coliform in Drinking Water by Clark's Presence/Absence 01.04A 01.05 Heterotrophic Plate Count Total Coliform in Wastewater by Multiple Tube Fermentation 01.06 Fecal Coliform in Wastewater by Multiple Tube Fermentation 01.07 01.08 Total Coliform in Wastewater by Membrane Filtration 01.09 Fecal Coliform in Wastewater by Membrane Filtration 01.10 Fecal Streptococci or Enterococci by Multiple Tube Fermentation 01.12 Total Coliform in Source Water by Multiple Tube Fermentation 01.13 Fecal Coliform in Source Water by Multiple Tube Fermentation 01.14 Total Coliform in Source Water by Membrane Filtration Total Coliform in Source Water by Chromogenic/Fluorogenic Substrate 01.16 02 Inorganic Chemistry and Physical Properties of Drinking Water 02.01 Alkalinity 02.02 Calcium 02.03 Chloride 02.04 Corrosivity 02.05 Fluoride 02.06 Hardness 02.07 Magnesium 02.08 **MBAS** 02.09 Nitrate 02.10 Nitrite 02.11Sodium 02.12 Sulfate Total Dissolved Solids 02.13A 02.13B Conductivity 02.16 Phosphate, ortho 02.17 Silica 02.18 Cyanide 02.19 Potassium 02.24 Perchlorate 02.31 **UV 254** 03 Analysis of Toxic Chemical Elements in Drinking Water 03.01 Arsenic 03.02 Barium 03.03 Cadmium

TRUESDAIL LABORATORIES, INC.

Chromium, total

Copper

Iron

Lead

03.04

03.05

03.06

03.07

1237

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03.08
                    Manganese
       03.09
                    Mercury
       03.10
                    Selenium
       03.11
                    Silver
       03.12
                    Zinc
       03.13
                   Aluminum
       03.15
                    Antimony
       03.16
                   Beryllium
                   Nickel
       03.17
       03.18
                   Thallium
       03.19
                   Chromium (VI)
 04
        Organic Chemistry of Drinking Water by GC/MS
       04.02
                   EPA Method 524.2
       04.03C
                   EPA Method 525.2 Polynuclear Aromatic Hydrocarbons
       04.03D
                   EPA Method 525.2 Adipates
       04.03E
                   EPA Method 525.2 Phthalates
       04.08
                   EPA Method 525.2 PAH/Adipates/Phthalates only
 05
        Organic Chemistry of Drinking Water (excluding GC/MS)
       05.04
                   EPA Method 502.2
       05.06
                   EPA Method 504.1 EDB, DBCP
       05.07
                   EPA Method 505
       05.09
                   EPA Method 507 N.P Pesticides
       05.10A
                   EPA Method 508
       05.10B
                   EPA Method 508.1
                   EPA Method 508A PCBs Quantitation
       05.11
       05.13-1
                   EPA Method 515.1 Chlorophenoxy Herbicides
                   EPA Method 551 Chlorinated Hydrocarbons
       05.20A-1
       05.21A
                   EPA Method 552.1 Dalapon
       05.26-1
                   EPA Method 552.2 Haloacetic Acids
       05.26-2
                   Standard Methods 6251B Haloacetic Acids
06
       06.01
                   Gross Alpha and Beta Radiation in Drinking Water
                   EPA Method 900.0
       06.02
                   Total Radium
                   EPA Method 903.0
       06.03
                  Radium 226
                  EPA Method 903.1
                  SM 7500 Ra-B
       06.04
                   Uranium
                  EPA Method 908.0
      06.05
                  Radon 222
                  EPA Method 913.0
      06.09
                  Tritium
                  EPA Method 906.0
                  SM 7500^{3}H - B
      06.10
                  Gross Alpha by Co-precipitation
                  SM 7110C
09
       Physical Properties Testing of Hazardous Waste
      09.01
                  Ignitability by Flashpoint Determination
      09.02
                  Corrosivity - pH Determination
      09.03
                  Corrosivity - towards steel
      09.04
                  Reactivity
10
       Inorganic Chemistry and Toxic Chemical Elements of Hazardous Waste
      10.01
                  Antimony
      10.02
                  Arsenic
      10.03
                  Barium
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```
10.04
                   Beryllium
       10.05
                   Cadmium
                   Chromium, total
       10.06
       10.07
                   Cobalt
       10.08
                   Copper
       10.09
                  Lead
       10.10
                  Mercury
       10.11
                  Molybdenum
       10.12
                  Nickel
       10.13
                  Selenium
       10.14
                  Silver
       10.15
                  Thallium
       10.16
                  Vanadium
       10.17
                  Zinc
       10.18
                  Chromium (VI)
       10.19
                  Cyanide
       10.20
                  Fluoride
      10.21
                  Sulfide
11
       Extraction Tests of Hazardous Waste
      11.01
                  California Waste Extraction Test (WET)
      11.02
                  Extraction Procedure Toxicity
      11.03
                  Toxicity Characteristic Leaching Procedure (TCLP) All Classes
12
       Organic Chemistry of Hazardous Waste by GC/MS
      12.01
                  EPA Method 8240B Volatile Compounds
      12.02
                  EPA Method 8250A Semi-volatile compounds
      12.03A
                  EPA Method 8270C Extractable Organics
      12.06A
                  EPA Method 8260B Volatile Compounds
13
       Organic Chemistry of Hazardous Waste (excluding GC/MS)
                  EPA Method 8010B Halogenated Volatiles
      13.01
                  EPA Method 8015B
      13.02A
      13.03
                 EPA Method 8020A Aromatic Volatiles
      13.05A
                 EPA Method 8041
      13.06C
                 EPA Method 8061A
      13.10A
                 EPA Method 8120A Chlorinated Hydrocarbons
                 EPA Method 8121 Chlorinated Hydrocarbons
      13.10B
      13.11B
                 EPA Method 8141A
      13.12A
                 EPA Method 8150B Chlorinated Herbicides
      13.12C
                 EPA Method 8151A Chlorinated Herbicides
                 EPA Method 8310 Polynuclear Aromatic Hydrocarbons
      13.13
      13.14B
                 EPA Method 8318
      13.15
                 Total Petroleum Hydrocarbons - Gasoline (LUFT)
                 Total Petroleum Hydrocarbons - Diesel (LUFT)
      13.16
                 EPA Method 418.1 TRPH - Screening by IR
      13.17
     13.18
                 EPA Method 8011 EDB and DBCP
     13.19A
                 EPA Method 8021B Halogenated Volatiles only
     13.19B
                 EPA Method 8021B Aromatic Volatiles only
     13.19C
                 EPA Method 8021B BTEX and MTBE only
     13.24A
                 EPA Method 8080A PCBs only
     13.24C
                 EPA Method 8082 PCBs only
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13.25A
                   EPA Method 8080A Organochlorine Pesticides only
       13.25C
                   EPA Method 8081A Organochlorine Pesticides only
       13.26
                   EPA Method 8031 Acrylonitrile
       13.27A
                   EPA Method 8032A
       13.29A
                   EPA Method 8315A
14
       Bulk Asbestos Analysis
                   Bulk Asbestos, 1% or greater concentrations (Title 22, CCR, 66261.24(a)(2)(A))
       14.01
16
       Wastewater Inorganic Chemistry, Nutrients and Demand
       16.01
                   Acidity
      16.02
                   Alkalinity
      16.03
                   Ammonia
                   Biochemical Oxygen Demand
      16.04
      16.05
                   Boron
      16.06
                   Bromide
      16.07
                   Calcium
                   Chemical Oxygen Demand
      16.09
      16.10
                   Chloride
      16.11
                   Chlorine Residual, total
      16.12
                   Cyanide
      16.13
                   Cyanide amenable to Chlorination
      16.14
                  Fluoride
      16.15
                  Hardness
      16.16
                  Kjeldahl Nitrogen
      16.17
                  Magnesium
      16.18
                  Nitrate
      16.19
                  Nitrite
      16.20
                  Oil and Grease
      16.21
                  Organic Carbon
      16.22
                  Oxygen, Dissolved
      16.23
                  рΗ
      16.24
                  Phenols
                  Phosphate, ortho
      16.25
                  Phosphorus, total
      16.26
      16.27
                  Potassium
     16.28
                  Residue, Total
                  Residuc, Filterable (Total Dissolved Solids)
     16.29
                  Residue, Nonfilterable (Total Suspended Solids)
     16.30
                  Residue, Settleable (Settleable Solids)
     16.31
     16.32
                  Residue, Volatile
     16.33
                  Silica
     16.34
                  Sodium
     16.35
                  Specific Conductance
     16.36
                  Sulfate
     16.37
                  Sulfide (includes total & soluble)
     16.38
                  Sulfite
                 Surfactants (MBAS)
     16.39
     16.40
                 Tannin and Lignin
     16.41
                 Turbidity
     16.44
                 Total Recoverable Petroleum Hydrocarbons by IR
     16.45
                 Total Organic Halides
```

```
17
        Toxic Chemical Elements in Wastewater
       17.01
                   Aluminum
       17.02
                   Antimony
       17.03
                  Arsenic
       17.04
                  Barium
       17.05
                  Beryllium
       17.06
                  Cadmium
       17.07
                  Chromium (VI)
       17.08
                  Chromium, total
       17.09
                  Cobalt
       17.10
                  Copper
       17.11
                  Gold
       17.12
                  Iridium
       17.13
                  Iron
       17.14
                  Lead
       17.15
                  Manganese
       17.16
                  Mercury
       17.17
                  Molybdenum
       17.18
                  Nickel
       17.20
                  Palladium
       17.21
                  Platinum
      17 24
                  Sclenium
      17,25
                  Silver
                  Thallium
      17.27
      17.28
                  Tin
      17.29
                  Titanium
      17.30
                  Vanadium
      17.31
                  Zinc
18
       Organic Chemistry of Wastewater by GC/MS
      18.01
                  EPA Method 624
      18.02
                 EPA Method 625
19
       Organic Chemistry of Wastewater (excluding GC/MS)
      19.01
                 EPA Method 601
      19.02
                 EPA Method 602
                 EPA Method 603 Acrolein, Acrylonitrile
      19.03
      19.04
                 EPA Method 604
      19.05
                 EPA Method 605 Benzidine
      19.06
                 EPA Method 606 Phthalate Esters
     19.07
                 EPA Method 607 Nitrosamines
     19.08
                 EPA Method 608
     19.09
                 EPA Method 609 Nitroaromatics and Cyclic Ketones
     19.10
                 EPA Method 610
     19.11
                 EPA Method 611 Haloethers
     19.14
                 EPA Method 612 Chlorinated Hydrocarbons
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CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM Accredited Fields of Testing

TRUESDAIL LABORATORIES, INC. 14201 FRANKLIN AVENUE TUSTIN, CA 92780

Lab Phone (714) 730-6239

Certificate No: I-1237

Field of Testing: 04 - Organic Chemistry of Drinking Water by GC/MS

04.02

355

1,2,3-Trichloropropane

CDHS SRL PT/GCMS

STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

NELAP - RECOGNIZED

ACCREDITATION

Is hereby granted to

EMAX LABORATORIES, INC.

1835 WEST 205th STREET TORRANCE, CA 90501

Scope of accreditation is limited to the "NELAP Fields of Accreditation" which accompanies this Certificate.

Continued accredited status depends on successful ongoing participation in the program.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 02116CA

Expiration Date: 08/31/2006

Effective Date: 08/31/2005

Richmond, California subject to forfeiture or revocation

George C. Kulasingam, Ph.D.

Program Chief

Environmental Laboratory Accreditation Program



CALIFORNIA DEPARTMENT OF HEALTH SERVICES

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM - NELAP RECOGNIZED Fields of Accreditation



EMAX LABORATORIES, INC.

Lab Phone (310) 618-8889

1835 WEST 205th STREET TORRANCE, CA 90501

Certificate No: 02116CA Renew Date: 08/31/2006

Certificate	NO. C	2116CA Renew Date: 08/31/2006			
102 - Inorg	anic C	hemistry of Drinking Water			
102.030	001	EPA 300.0	Bromide		
102.030	002	EPA 300.0	Chlorate		
102.030	003	EPA 300.0	Chloride		
102.030	005	EPA 300.0	Fluoride		
102.030	006	EPA 300.0	Nitrate		
102.030	007	EPA 300.0	Nitrite		
102.030	800	EPA 300.0	Phosphate, Ortho		
102.030	010	EPA 300.0	Sulfate		
102.040	004	EPA 300.1	Bromate		
102.045	001	EPA 314.0	Perchlorate		
102.100	001	SM2320B	Alkalinity		
102.120	001	SM2340B	Hardness		
102.121	001	SM2340C	Hardness		
102.130	001	SM2510B	Conductivity		
102.140	001	SM2540C	Total Dissolved Solids		
102.145	001	EPA 160.1	Total Dissolved Solids		
102.150	001	SM4110B	Chloride		
102.150	002	SM4110B	Fluoride		
102.150	003	SM4110B	Nitrate		
102.150	004	SM4110B	Nitrite		
102.150	005	SM4110B	Phosphate, Ortho		
102.150	006	SM4110B	Sulfate		
102.200	001	SM4500-F C	Fluoride		
102.260	001	SM5310B	Total Organic Carbon		
102.261	001	SM5310B	DOC		
102.270	001	SM5540C	Surfactants		
102.520	001	EPA 200.7	Calcium		
102.520	002	EPA 200.7	Magnesium		
102.520	003	EPA 200.7	Potassium		
102.520	004	EPA 200.7	Silica		
102.520	005	EPA 200.7	Sodium		
103 - Toxio	103 - Toxic Chemical Elements of Drinking Water				
103.130	001	EPA 200.7	Aluminum		
103.130		EPA 200.7	Arsenic		
103.130	003	EPA 200.7	Barium		
103.130	004	EPA 200.7	Beryllium		
103.130	005	EPA 200.7	Cadmium		
103.130	007	EPA 200.7	Chromium		
103.130		EPA 200.7	Copper		
	****	and the second s	And the second s		

As of 09/13/2005, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

103.130 009	EPA 200.7	Iron
103.130 011	EPA 200.7	Manganese
103.130 012	EPA 200.7	Nickel
103.130 015	EPA 200.7	Silver
103.130 017	EPA 200.7	Zinc
103.140 001	EPA 200.8	Aluminum
103.140 002	EPA 200.8	Antimony
103.140 003	EPA 200.8	Arsenic
103.140 004	EPA 200.8	Barium
103.140 005	EPA 200.8	Beryllium
103,140 006	EPA 200.8	Cadmium
103.140 007	EPA 200.8	Chromium
103.140 008	EPA 200.8	Copper
103.140 009	EPA 200.8	Lead
103.140 010	EPA 200.8	Manganese
103.140 011	EPA 200.8	Mercury
103.140 012	EPA 200.8	Nickel
103.140 013	EPA 200.8	Selenium
103,140 014	EPA 200.8	Silver
103.140 015	EPA 200.8	Thallium
103.140 016	EPA 200.8	Zinc
103.161 001	EPA 245.2	Mercury
103.310 001	EPA 218.6	Chromium (VI)
	Organic Chemistry of Drinking Water	
	341	
404 020 004	EDA FOA 1	1.2 Dibromoethane
104.030 001	EPA 504.1	1,2-Dibromoethane
104.030 002	EPA 504.1	1,2-Dibromo-3-chloropropane
104.030 002 104.040 001	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene
104.030 002 104.040 001 104.040 002	EPA 504.1 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene
104.030 002 104.040 001 104.040 002 104.040 003	EPA 504.1 EPA 524.2 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006	EPA 504.1 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 007	EPA 504.1 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 007	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 008 104.040 008	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene
104.030 002 104.040 001 104.040 003 104.040 006 104.040 007 104.040 008 104.040 009 104.040 010	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 007 104.040 008 104.040 010 104.040 010	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene
104.030 002 104.040 001 104.040 003 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane
104.030 002 104.040 001 104.040 003 104.040 006 104.040 007 104.040 008 104.040 009 104.040 010 104.040 011 104.040 012 104.040 014	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 008 104.040 009 104.040 010 104.040 011 104.040 012 104.040 014 104.040 014	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012 104.040 014 104.040 015 104.040 016	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene
104.030 002 104.040 001 104.040 002 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012 104.040 014 104.040 016 104.040 016 104.040 016	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 008 104.040 010 104.040 011 104.040 012 104.040 014 104.040 015 104.040 018 104.040 018	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene
104.030 002 104.040 001 104.040 002 104.040 003 104.040 006 104.040 008 104.040 010 104.040 011 104.040 014 104.040 015 104.040 016 104.040 018 104.040 018 104.040 018 104.040 018	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,2-Dichlorobenzene
104.030 002 104.040 001 104.040 002 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012 104.040 015 104.040 016 104.040 018 104.040 018 104.040 018 104.040 020 104.040 020	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene
104.030 002 104.040 001 104.040 002 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012 104.040 016 104.040 016 104.040 018 104.040 019 104.040 020 104.040 021 104.040 021	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,2-Dichlorobenzene Dichlorodifluoromethane
104.030 002 104.040 001 104.040 003 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 012 104.040 016 104.040 016 104.040 018 104.040 018 104.040 020 104.040 022 104.040 023	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane
104.030 002 104.040 001 104.040 002 104.040 006 104.040 007 104.040 009 104.040 010 104.040 011 104.040 014 104.040 015 104.040 016 104.040 018 104.040 020 104.040 022 104.040 023 104.040 023	EPA 504.1 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane
104.030 002 104.040 001 104.040 003 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 015 104.040 016 104.040 016 104.040 018 104.040 018 104.040 020 104.040 021 104.040 022 104.040 023	EPA 504.1 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane
104.030 002 104.040 001 104.040 002 104.040 006 104.040 007 104.040 008 104.040 010 104.040 011 104.040 014 104.040 015 104.040 016 104.040 018 104.040 019 104.040 020 104.040 021 104.040 023 104.040 023	EPA 504.1 EPA 524.2 EPA 524.2	1,2-Dibromo-3-chloropropane Benzene Bromobenzene Bromochloromethane Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromomethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane

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104.040 027	EPA 524.2	trans-1,2-Dichloroethene
104.040 028	EPA 524.2	Dichloromethane
104.040 029	EPA 524.2	1,2-Dichloropropane
104.040 030	EPA 524.2	1,3-Dichloropropane
104.040 031	EPA 524.2	2,2-Dichloropropane
104.040 032	EPA 524.2	1,1-Dichloropropene
104.040 033	EPA 524.2	cis-1,3-Dichloropropene
104.040 034	EPA 524.2	trans-1,3-Dichloropropene
104.040 035	EPA 524.2	Ethylbenzene
104.040 036	EPA 524.2	Hexachlorobutadiene
104.040 037	EPA 524.2	Isopropylbenzene
104.040 038	EPA 524.2	4-Isopropyltoluene
104.040 039	EPA 524.2	Naphthalene
104.040 040	EPA 524.2	Nitrobenzene
104.040 041	EPA 524.2	N-propylbenzene
104.040 042	EPA 524.2	Styrene
104.040 043	EPA 524.2	1,1,1,2-Tetrachloroethane
104.040 044	EPA 524.2	1,1,2,2-Tetrachloroethane
104.040 045	EPA 524.2	Tetrachloroethene
104.040 046	EPA 524.2	Toluene
104.040 047	EPA 524.2	1,2,3-Trichlorobenzene
104.040 048	EPA 524.2	1,2,4-Trichlorobenzene
104.040 049	EPA 524.2	1,1,1-Trichloroethane
104.040 050	EPA 524.2	1,1,2-Trichloroethane
104.040 051	EPA 524.2	Trichloroethene
104.040 052	EPA 524.2	Trichlorofluoromethane
104.040 053	EPA 524.2	1,2,3-Trichloropropane
104.040 054	EPA 524.2	1,2,4-Trimethylbenzene
104.040 055	EPA 524.2	1,3,5-Trimethylbenzene
104.040 056	EPA 524.2	Vinyl Chloride
104.040 057	EPA 524.2	Xylenes, Total
104.045 001	EPA 524.2	Bromodichloromethane
104.045 002	EPA 524.2	Bromoform
104.045 003	EPA 524.2	Chloroform
104.045 004	EPA 524.2	Dibromochloromethane
104.045 005	EPA 524.2	Trihalomethanes
104.050 002	EPA 524.2	Methyl tert-butyl Ether (MTBE)
104.050 004	EPA 524.2	tert-Amyl Methyl Ether (TAME)
104.050 005	EPA 524.2	Ethyl tert-butyl Ether (ETBE)
104.050 006	EPA 524.2	Trichlorotrifluoroethane
	Chemistry of Wastewater	
108.016 001	EPA 110.2	Color
108.020 001	EPA 120.1	Conductivity
108.030 001	EPA 130.1	Hardness
108.040 001	EPA 130.2	Hardness
108.050 001	EPA 150.1	pH
108.060 001	EPA 160.1	Residue, Filterable
108.070 001	EPA 160.1	Residue, Non-filterable
100.070 001	L₁ A 100,2	1300000 1 TOTI INCOLUDE

EMAX LABORATORIES, INC.

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108.080	001	EPA 160.3	Residue, Total
108.090	001	EPA 160.4	Residue, Volatile
108.100	001	EPA 160.5	Residue, Settleable
108.110	001	EPA 180.3	Turbidity
108.110	001	EPA 200.7	Boron
108.112	001	The second contract of	Calcium
		EPA 200.7	
108.112	004	EPA 200.7	Magnesium Potassium
108.112	005	EPA 200.7	
108.112	006	LLV 5001	Silica
108.112	007	EPA 200.7	Sodium
108.120	001	EPA 300.0	Bromide
108.120	002	EPA 300.0	Chloride
108.120	003	EPA 300.0	Fluoride
108.120	004	EPA 300.0	Nitrate
108.120	005	EPA 300.0	Nitrite
108.120	006	EPA 300.0	Nitrate-nitrite, Total
108.120	007	EPA 300.0	Phosphate, Ortho
108.120	800	EPA 300.0	Sulfate
108.130	001	EPA 305.1	Acidity
108.140	001	EPA 310.1	Alkalinity
108.172	001	EPA 330.3	Chlorine Residual, Total
108.180	001	EPA 335.1	Cyanide, amenable
108.181	001	EPA 335.2	Cyanide, Total
108.191	001	EPA 340.2	Fluoride
108.201	001	EPA 350.2	Ammonia
108.212	001	EPA 351.3	Kjeldahl Nitrogen
108.234	001	EPA 353.3	Nitrate-nitrite, Total
108.235	001	EPA 353.3	Nitrate calc.
108.262	001	EPA 365.2	Phosphate, Ortho
108.263	001	EPA 365.2	Phosphorus, Total
108.270	001	EPA 370.1	Dissolved Silica
108.290	001	EPA 376.1	Sulfide
108.291	001	EPA 376.2	Sulfide
108.300	001	EPA 377.1	Sulfite
108.310	001	EPA 405.1	Biochemical Oxygen Demand
108.323	001	EPA 410.4	Chemical Oxygen Demand
108.330	001	EPA 413.1	Oil and Grease
108.340	001	EPA 415.1	Total Organic Carbon
108.350	001	EPA 418.1	Total Recoverable Petroleum Hydrocarbons
108.360	001	EPA 420.1	Phenols, Total
108.370	001	EPA 425.1	Surfactants
108.380	001	EPA 1664	Oil and Grease
108.390	001	SM2130B	Turbidity
108.400		SM2310B	Acidity
108.410	001	SM2320B	Alkalinity
108.420		SM2340B	Hardness (calc.)
108.421		SM2340C	Hardness
108.430	and a second second second	SM2510B	Conductivity
		discontinuo - 1	, and the state of

108.440	001	SM2540B	Residue, Total
108.441	001	SM2540C	Residue, Filterable
108.442	001	SM2540D	Residue, Non-filterable
108.443	001	SM2540F	Residue, Settleable
108.480	001	SM4500-F C	Fluoride
108.490	001	SM4500-H+ B	PH
108.590	001	SM5210B	Biochemical Oxygen Demand
108.602	001	SM5220D	Chemical Oxygen Demand
108.610	001	SM5310B	Total Organic Carbon
108.630	001	SM5520B	Oil and Grease
109 - Toxic	: Chen	nical Elements of Wastewater	A CONTROL OF THE PROPERTY OF T
	001	EPA 200.7	Aluminum
	002	EPA 200.7	Antimony
	003	EPA 200.7	Arsenic
	004	EPA 200.7	Barium
	005	EPA 200.7	Beryllium
109.010	007	EPA 200.7	Cadmium
109.010	009	EPA 200.7	Chromium
	010	EPA 200.7	Cobalt
	011	EPA 200.7	Copper
109.010	012	EPA 200.7	Iron
109.010	013	EPA 200.7	Lead
****	-	EPA 200.7	Manganese
109.010	016	EPA 200.7	Molybdenum
109.010	017	EPA 200.7	Nickel
109.010	019	EPA 200.7	Selenium
109.010	021	EPA 200.7	Silver
109.010	023	EPA 200.7	Thallium
109.010	024	EPA 200.7	Tin
109.010	025	EPA 200.7	Titanium
109.010	026	EPA 200.7	Vanadium
109.010	027	EPA 200.7	Zinc
109.020	001	EPA 200.8	Aluminum
109.020	002	EPA 200.8	Antimony
109.020		EPA 200.8	Arsenic
109.020	004	EPA 200.8	Barium
109.020	005	EPA 200.8	Beryllium
109.020	006	EPA 200.8	Cadmium
109.020	007	EPA 200.8	Chromium
109.020	008	EPA 200.8	Cobalt
109.020	010	EPA 200.8	Lead
109.020	011	EPA 200.8	Manganese
109.020	012	EPA 200.8	Molybdenum
109.020	013	EPA 200.8	Nickel
109.020	014	EPA 200.8	Selenium
109.020	015	EPA 200.8	Silver
109.020	016	EPA 200.8	Thallium
109.020	017	EPA 200.8	Vanadium

109.020 018 **EPA 200.8** Zinc 109.104 001 **EPA 218.6** Chromium (VI) 110 - Volatile Organic Chemistry of Wastewater 110.040 001 **EPA 624** Benzene 110.040 002 **EPA 624** Bromodichloromethane 110.040 003 **EPA 624** Bromoform 110.040 004 **EPA 624** Bromomethane 110.040 005 **EPA 624** Carbon Tetrachloride 110.040 006 Chlorobenzene **EPA 624** 110.040 007 **EPA 624** Chloroethane 2-Chloroethyl Vinyl Ether 110.040 800 **EPA 624** 110.040 009 Chloroform **EPA 624** 110.040 010 **EPA 624** Chloromethane 110.040 011 **EPA 624** Dibromochloromethane 110.040 012 1,2-Dichlorobenzene **EPA 624** 110.040 013 **EPA 624** 1,3-Dichlorobenzene 110.040 014 **EPA 624** 1,4-Dichlorobenzene 110.040 1,1-Dichloroethane 015 **EPA 624** 110.040 016 **EPA 624** 1,2-Dichloroethane 110.040 017 **EPA 624** 1,1-Dichloroethene 110.040 018 **EPA 624** trans-1,2-Dichloroethene 110.040 019 **EPA 624** 1,2-Dichloropropane 110.040 cis-1,3-Dichloropropene 020 **EPA 624** 110.040 021 **EPA 624** trans-1,3-Dichloropropene 110.040 Ethylbenzene 022 **EPA 624** 110.040 023 **EPA 624** Methylene Chloride 110.040 1,1,2,2-Tetrachloroethane 024 **EPA 624** 110.040 Tetrachloroethene 025 **EPA 624** Toluene 110.040 026 **EPA 624** 110.040 027 **EPA 624** 1,1,1-Trichloroethane 110.040 028 **EPA 624** 1,1,2-Trichloroethane 110.040 Trichloroethene 029 **EPA 624** 110.040 030 **EPA 624** Trichlorofluoromethane Vinyl Chloride 110.040 031 **EPA 624** 110.040 042 **EPA 624** Oxygenates 111 - Semi-volatile Organic Chemistry of Wastewater 111.100 001 **EPA 625** Acenaphthene Acenaphthylene 111.100 002 **EPA 625** 111.100 003 **EPA 625** Anthracene 111.100 Benzidine 004 **EPA 625** 111.100 005 Benz(a)anthracene **EPA 625** 111.100 006 **EPA 625** Benzo(b)fluoranthene 111.100 007 **EPA 625** Benzo(k)fluoranthene 111.100 800 Benzo(g,h,i)perylene **EPA 625** 111.100 009 **EPA 625** Benzo(a)pyrene 111.100 010 Benzyl Butyl Phthalate **EPA 625** 111.100 011 **EPA 625** Bis(2-chloroethoxy)methane 111.100 012 **EPA 625** Bis(2-chloroethyl) Ether

As of 09/13/2005, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

111.100 013 EPA 625	Bis(2-chloroisopropyl) Ether
111.100 014 EPA 625	Di(2-ethylhexyl) Phthalate
111.100 015 EPA 625	4-Bromophenyl Phenyl Ether
111.100 016 EPA 625	4-Chloro-3-methylphenol
111.100 017 EPA 625	2-Chloronaphthalene
111,100 018 EPA 625	2-Chlorophenol
111.100 019 EPA 625	4-Chlorophenyl Phenyl Ether
111.100 020 EPA 625	Chrysene
111.100 021 EPA 625	' Dibenz(a,h)anthracene
111,100 022 EPA 625	1,2-Dichlorobenzene
111.100 023 EPA 625	1,3-Dichlorobenzene
111.100 024 EPA 625	1,4-Dichlorobenzene
111.100 025 EPA 625	3,3'-Dichlorobenzidine
111.100 026 EPA 625	2,4-Dichlorophenol
111.100 027 EPA 625	Diethyl Phthalate
111.100 028 EPA 625	2,4-Dimethylphenol
111.100 029 EPA 625	Dimethyl Phthalate
111.100 030 EPA 625	Di-n-butyl phthalate
111.100 031 EPA 625	Di-n-octyl phthalate
111.100 032 EPA 625	2,4-Dinitrophenol
111.100 033 EPA 625	2.4-Dinitrotoluene
111.100 034 EPA 625	2,6-Dinitrotoluene
111.100 034 EPA 625	Fluoranthene
111.100 035 EPA 625	Fluorene
	Hexachlorobenzene
111.100 037 EPA 625	Hexachlorobutadiene
111.100 038 EPA 625	
111.100 039 EPA 625	Hexachlorocyclopentadiene
111.100 040 EPA 625	Hexachloroethane (1.0.0 m)
111.100 041 EPA 625	Indeno(1,2,3-c,d)pyrene
111.100 042 EPA 625	Isophorone
111.100 043 EPA 625	2-Methyl-4,6-dinitrophenol
111.100 044 EPA 625	Naphthalene
111.100 045 EPA 625	Nitrobenzene
111.100 046 EPA 625	2-Nitrophenol
111.100 047 EPA 625	4-Nitrophenol
111.100 048 EPA 625	N-nitrosodimethylamine
111.100 049 EPA 625	N-nitrosodi-n-propylamine
111.100 050 EPA 625	N-nitrosodiphenylamine
111.100 051 EPA 625	Pentachlorophenol
111.100 052 EPA 625	Phenanthrene
111.100 053 EPA 625	Phenol
111.100 054 EPA 625	Pyrene
111.100 055 EPA 625	1,2,4-Trichlorobenzene
111.100 056 EPA 625	2,4,6-Trichlorophenol
111.170 001 EPA 608	Aldrin
111.170 002 EPA 608	a-BHC
111.170 003 EPA 608	b-BHC
111.170 004 EPA 608	d-BHC

Certificate No: 02116CA

Renew Date: 08/31/2006

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114.020 012	EPA 6020	Selenium
114.020 013		Silver
114.020 014	EPA 6020	Thallium
114.020 01	EPA 6020	Vanadium
114.020 016	EPA 6020	Zinc
114.031 00°	EPA 7041	Antimony
114.040 00°	EPA 7060A	Arsenic
114.081 00	EPA 7131A	Cadmium
114.091 00	EPA 7191	Chromium
114.103 00°	EPA 7196A	Chromium (VI)
114.106 00	EPA 7199	Chromium (VI)
114.121 00°	EPA 7211	Copper
114.131 00°	EPA 7421	Lead
114.140 00	EPA 7470A	Mercury
114.141 00	EPA 7471A	Mercury
114.170 00 ⁻	EPA 7740	Selenium
114.181 00	EPA 7761	Silver
114.191 00°	EPA 7841	Thallium
114.222 00	EPA 9014	Cyanide
114.230 00°	EPA 9034	Sulfides, Total
114.240 00	EPA 9040	pH
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115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.010 000 116.020 010 116.030 000 116.040 000 116.040 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene
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115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.020 011 116.030 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 116.040 000 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 8021B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE)
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.020 010 116.030 000 116.040 000 116.040 000 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040 116.040 040	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.020 010 116.030 000 116.040 000 116.040 030 116.040 040 116.040 040 116.040 040 116.040 040 116.040 050	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.010 000 116.020 011 116.030 000 116.040 000 116.040 000 116.040 040 116.040 040 116.040 040 116.040 050 116.040 050 116.040 050 116.040 050 050	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone
115 - Extraction 115.020 000 115.030 000 115.040 000 116 - Volatile 116.010 000 116.020 01 116.030 000 116.040 003 116.040 004 116.040 04 116.040 05 116.040 05 116.080 000 116.080 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.020 010 116.030 000 116.040 030 116.040 040 116.040 040 116.040 040 116.040 040 116.040 050 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 0000 000 0000 000 000 000 0000 0000 0000 0000 0	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetonitrile Acrolein
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.020 011 116.030 000 116.040 000 116.040 041 116.040 041 116.040 040 116.040 050 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 80260B EPA 8260B EPA 8260B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.010 000 116.020 011 116.030 000 116.040 000 116.040 040 116.040 040 116.040 050 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile Allyl Alcohol
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.010 000 116.020 01 116.030 000 116.040 000 116.040 04 116.040 04 116.040 05 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 000 116.080 000 000 0	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile Allyl Alcohol Allyl Chloride
115 - Extraction 115.020 000 115.030 000 115.040 000 116 - Volatile 116.010 000 116.020 01 116.030 000 116.040 003 116.040 004 116.040 004 116.040 005 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8020B EPA 8021B EPA 8026B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile Allyl Alcohol Allyl Chloride Benzene
115 - Extraction 115.020 000 115.030 000 115.040 000 116.010 000 116.010 000 116.020 011 116.030 000 116.040 030 116.040 041 116.040 040 116.040 050 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 000 000 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8020B EPA 8020B EPA 8020B EPA 8020B EPA 8260B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile Allyl Alcohol Allyl Chloride Benzene Bromoacetone
115 - Extraction 115.020 000 115.030 000 115.040 000 116 - Volatile 116.010 000 116.020 01 116.030 000 116.040 003 116.040 004 116.040 004 116.040 005 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000 116.080 000	EPA 1311 CCR Chapter11, Article 5, Appendix II EPA 1312 Drganic Chemistry of Hazardous Waste EPA 8011 EPA 8015B EPA 8015B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8021B EPA 8020B EPA 8020B EPA 8020B EPA 8020B EPA 8260B	Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) Synthetic Precipitation Leaching Procedure (SPLP) 1,2-Dibromoethane Dibromochloropropane Ethylene Glycol Gasoline-range Organics Benzene Ethylbenzene Methyl tert-butyl Ether (MTBE) Toluene Xylenes, Total Acetone Acetonitrile Acrolein Acrylonitrile Allyl Alcohol Allyl Chloride Benzene

As of 09/13/2005, this list supersedes all previous lists for this certificate number. Customers: Please verify the current accreditation standing with the State.

440,000,044	FDA 0000D	Daniel Habitania Habi
116.080 011	EPA 8260B	Bromodichloromethane
116.080 012	EPA 8260B	Bromoform
116.080 013	EPA 8260B	Bromomethane
116.080 014	EPA 8260B	n-Butyl Alcohol
116.080 015	EPA 8260B	Carbon Disulfide
116.080 016	EPA 8260B	Carbon Tetrachloride
116.080 018	EPA 8260B	Chlorobenzene
116.080 019	EPA 8260B	Chloroethane
116.080 020	EPA 8260B	2-Chloroethyl Vinyl Ether
116.080 021	EPA 8260B	Chloroform
116.080 022	EPA 8260B	Chloromethane
116.080 023	EPA 8260B	Chloroprene
116.080 024	EPA 8260B	3-Chiòropropionitrile
116.080 025	EPA 8260B	Crotonaldehyde
116.080 026	EPA 8260B	Dibromochloromethane
116.080 027	EPA 8260B	Dibromochloropropane
116.080 028	EPA 8260B	1,2-Dibromoethane
116.080 030	EPA 8260B	Dibromomethane
116.080 031	EPA 8260B	1,2-Dichlorobenzene
116.080 032	EPA 8260B	1,3-Dichlorobenzene
116.080 033	EPA 8260B	1,4-Dichlorobenzene
116.080 034	EPA 8260B	cis-1,4-Dichloro-2-butene
116.080 035	EPA 8260B	trans-1,4-Dichloro-2-butene
116.080 036	EPA 8260B	Dichlorodifluoromethane
116.080 037	EPA 8260B	1,1-Dichloroethane
116.080 038	EPA 8260B	1,2-Dichloroethane
116.080 039	EPA 8260B	1,1-Dichloroethene
116.080 040	EPA 8260B	trans-1,2-Dichloroethene
116.080 041	EPA 8260B	cis-1,2-Dichloroethene
116.080 042	EPA 8260B	1,2-Dichloropropane
116.080 043	EPA 8260B	1,3-Dichloropropane
116.080 044	EPA 8260B	2,2-Dichloropropane
116.080 045	EPA 8260B	1,1-Dichloropropene
116.080 046	EPA 8260B	cis-1,3-Dichloropropene
116.080 047	EPA 8260B	trans-1,3-Dichloropropene
116.080 048	EPA 8260B	1,3-Dichloro-2-propanol
116.080 049	EPA 8260B	1,2,3,4-Diepoxybutane
116.080 050	EPA 8260B	1,4-Dioxane
116.080 053	EPA 8260B	Ethylbenzene
116.080 055	EPA 8260B	Ethyl Methacrylate
116.080 056	EPA 8260B	Hexachlorobutadiene
116.080 058	EPA 8260B	2-Hexanone (MBK)
116.080 059	EPA 8260B	lodomethane
116.080 060	EPA 8260B	Isobutyl Alcohol
116.080 061	EPA 8260B	Malononitrile
116.080 062	EPA 8260B	Methacrylonitrile
116.080 064	EPA 8260B	Methyl tert-butyl Ether (MTBE)
116.080 065	EPA 8260B	Methylene Chloride
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116.080	066	EPA 8260B	Methyl Ethyl Ketone	
116.080	067	EPA 8260B	Methyl Methacrylate	
116.080	068	EPA 8260B	4-Methyl-2-pentanone (MIBK)	
116.080	069	EPA 8260B	Naphthalene	
116.080	070	EPA 8260B	Nitrobenzene	
116.080	072	EPA 8260B	N-nitrosodi-n-butylamine	
116.080	074	EPA 8260B	Pentachloroethane	
116.080	075	EPA 8260B	Pentafluorobenzene	
116.080	076	EPA 8260B	2-Picoline	
116.080	078	EPA 8260B	Propionitrile	
116.080	079	EPA 8260B	N-propylamine	
116.080	080	EPA 8260B	Pyridine	
116.080	081	EPA 8260B	1,1,1,2-Tetrachloroethane	
116.080	082	EPA 8260B	1,1,2,2-Tetrachloroethane	
116.080	083	EPA 8260B	Tetrachloroethene	
116.080	084	EPA 8260B	Toluene	
116.080	086	EPA 8260B	1,2,3-Trichlorobenzene	
116.080	087	EPA 8260B	1,2,4-Trichlorobenzene	
116.080	088	EPA 8260B	1,1,1-Trichloroethane	
116.080	089	EPA 8260B	1,1,2-Trichloroethane	
116.080	090	EPA 8260B	Trichloroethene	
116.080	091	EPA 8260B	Trichlorofluoromethane	
116.080	092	EPA 8260B	1,2,3-Trichloropropane	
116.080	093	EPA 8260B	Vinyl Acetate	
116.080	094	EPA 8260B	Vinyl Chloride	
116.080	095	EPA 8260B	Xylenes, Total	
116.080	096	EPA 8260B	tert-Amyl Methyl Ether (TAME)	
116.080	097	EPA 8260B	tert-Butyl Alcohol (TBA)	
116.080	098	EPA 8260B	Ethyl tert-butyl Ether (ETBE)	
116.080	099	EPA 8260B	Bromobenzene	
116.080	100	EPA 8260B	n-Butylbenzene	
116.080	101	EPA 8260B	sec-Butylbenzene	
116.080	102	EPA 8260B	tert-Butylbenzene	
116.080	103	EPA 8260B	2-Chlorotoluene	
116.080	104	EPA 8260B	4-Chlorotoluene	
116.080	105	EPA 8260B	Isopropylbenzene	
116.080	106	EPA 8260B	N-propylbenzene	
116.080	107	EPA 8260B	Styrene	
116.080	108	EPA 8260B	1,2,4-Trimethylbenzene	
116.080	109	EPA 8260B	1,3,5-Trimethylbenzene	
116.100	001	LUFT GC/MS	Total Petroleum Hydrocarbons - Gasoline	
116.100	002	LUFT GC/MS	Benzene	
116.100	003	LUFT GC/MS	Toluene	
116.100	004	LUFT GC/MS	Xylenes	
116.100	005	LUFT GC/MS	Methyl tert-butyl Ether (MTBE)	
116.110	001	LUFT	Total Petroleum Hydrocarbons - Gasoline	
117 - Sem	117 - Semi-volatile Organic Chemistry of Hazardous Waste			

Diesel-range Total Petroleum Hydrocarbons

117.010 001

EPA 8015B

117.015	001	LUFT GC/MS	Diesel-range Total Petroleum Hydrocarbons
117.016	001	LUFT	Diesel-range Total Petroleum Hydrocarbons
117.017	001	EPA 418.1	TRPH Screening
117.110	001	EPA 8270C	Acenaphthene
117,110	002	EPA 8270C	Acenaphthylene
117.110	003	EPA 8270C	Acetophenone
117.110	004	EPA 8270C	2-Acetylaminofluorene
117.110	005	EPA 8270C	1-Acetyl-2-thiourea
117.110	006	EPA 8270C	4-Aminobiphenyl
117.110	007	EPA 8270C	Aniline
117.110	008	EPA 8270C	Anthracene
117.110	010	EPA 8270C	Benzidine
117.110	011	EPA 8270C	Benz(a)anthracene
117.110	012	EPA 8270C	Benzo(b)fluoranthene
117.110	013	EPA 8270C	Benzo(k)fluoranthene
117.110	014	EPA 8270C	Benzo(g,h,i)perylene
117.110	015	EPA 8270C	Benzo(a)pyrene
117.110	016	EPA 8270C	Benzoic Acid
117.110	018	EPA 8270C	Benzyl Alcohol
THE RESERVE OF THE PERSON NAMED IN	019	EPA 8270C	Benzyl Butyl Phthalate
117.110	020	EPA 8270C	Bis(2-chloroethoxy)methane
117.110	021	EPA 8270C	Bis(2-chloroethyl) Ether
117.110	022	EPA 8270C	Bis(2-chloroisopropyl) Ether
117.110	023	EPA 8270C	Di(2-ethylhexyl) Phthalate
117.110	024	EPA 8270C	4-Bromophenyl Phenyl Ether
117.110	025	EPA 8270C	Carbazole
117.110	026	EPA 8270C	4-Chloroaniline
117.110	027	EPA 8270C	4-Chloro-3-methylphenol
117.110	029	EPA 8270C	2-Chloronaphthalene
117.110	030	EPA 8270C	2-Chlorophenol
117.110	031	EPA 8270C	4-Chlorophenyl Phenyl Ether
117.110	032	EPA 8270C	Chrysene
117.110	033	EPA 8270C	2-Cyclohexyl-4,6-dinitrophenol
117.110	034	EPA 8270C	2,4-Diaminotoluene
117.110	036	EPA 8270C	Dibenz(a,h)anthracene
117.110	037	EPA 8270C	Dibenzofuran
117.110	038	EPA 8270C	Dibenzo(a,e)pyrene
117.110	039	EPA 8270C	1,2-Dichlorobenzene
117.110	040	EPA 8270C	1,3-Dichlorobenzene
117.110	041	EPA 8270C	1,4-Dichlorobenzene
117.110	042	EPA 8270C	3,3'-Dichlorobenzidine
117.110	043	EPA 8270C	2,4-Dichlorophenol
117.110	044	EPA 8270C	2,6-Dichlorophenol
117.110	045	EPA 8270C	Diethyl Phthalate
117.110	050	EPA 8270C	p-Dimethylaminoazobenzene
117.110	051	EPA 8270C	7,12-Dimethylbenz(a)anthracene
117.110	052	EPA 8270C	a,a-Dimethylphenethylamine
117.110	053	EPA 8270C	2,4-Dimethylphenol
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117.110 054	EPA 8270C	Dimethyl Phthalate
117.110 055	EPA 8270C	Di-n-butyl phthalate
117.110 056	EPA 8270C	Di-n-octyl phthalate
117.110 060	EPA 8270C	2,4-Dinitrophenol
117.110 061	EPA 8270C	2,4-Dinitrotoluene
117.110 062	EPA 8270C	2,6-Dinitrotoluene
117.110 062	EPA 8270C	Diphenylamine
117.110 063	EPA 8270C	1,2-Diphenylhydrazine
117.110 064	EPA 8270C	Ethyl Methanesulfonate
117.110 067	EPA 8270C	Fluoranthene
117.110 067	EPA 8270C	Fluorene
117.110 069	EPA 8270C	Hexachlorobenzene
117.110 009	EPA 8270C	Hexachlorobutadiene
117.110 070	EPA 8270C	Hexachlorocyclopentadiene
***************************************		Hexachloroethane
117.110 072	EPA 8270C	The second secon
117.110 073	EPA 8270C	Hexachlorophene Hexachloropropene
117.110 074	EPA 8270C	A CONTRACTOR OF THE CONTRACTOR
117.110 075	EPA 8270C	Indeno(1,2,3-c,d)pyrene
117.110 076	EPA 8270C	Isophorone
117.110 077	EPA 8270C	Isosafrole
117.110 078	EPA 8270C	Maleic Anhydride
117.110 079	EPA 8270C	3-Methylcholanthrene
117.110 080	EPA 8270C	2-Methyl-4,6-dinitrophenol
117.110 082	EPA 8270C	Methyl Methanesulfonate
117.110 083	EPA 8270C	2-Methylnaphthalene
117.110 084	EPA 8270C	2-Methylphenol
117.110 085	EPA 8270C	3-Methylphenol
117.110 086	EPA 8270C	4-Methylphenol
117.110 087	EPA 8270C	Naphthalene
117.110 088	EPA 8270C	1,4-Naphthoquinone
117.110 089	EPA 8270C	1-Naphthylamine
117.110 090	EPA 8270C	2-Naphthylamine
117.110 092	EPA 8270C	2-Nitroaniline
117.110 093	EPA 8270C	3-Nitroaniline
117.110 094	EPA 8270C	4-Nitroaniline
117.110 095	EPA 8270C	Nitrobenzene
117.110 096	EPA 8270C	2-Nitrophenol
117.110 097	EPA 8270C	4-Nitrophenol
117.110 098	EPA 8270C	N-nitrosodi-n-butylamine
117.110 099	EPA 8270C	N-nitrosodiethylamine
117.110 100	EPA 8270C	N-nitrosodimethylamine
117.110 101	EPA 8270C	N-nitrosodi-n-propylamine
117.110 102	EPA 8270C	N-nitrosodiphenylamine
117.110 103	EPA 8270C	N-nitrosomethylethylamine
117.110 104	EPA 8270C	N-nitrosomorpholine
117.110 105	EPA 8270C	N-nitrosopiperidine
117.110 106	EPA 8270C	N-nitrosopyrrolidine
117.110 107	EPA 8270C	5-Nitro-o-toluidine
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EMAX LABORATORIES, INC.

Certificate No: 02116CA Renew Date:

08/31/2006

447.440.400	EDA 00700	Destroblement
117.110 108	EPA 8270C	Pentachlorobenzene
117.110 109	EPA 8270C	Pentachloronitrobenzene
117.110 110	EPA 8270C	Pentachlorophenol
117.110 111	EPA 8270C	Phenacetin
117.110 112	EPA 8270C	Phenanthrene
117.110 113	EPA 8270C	Phenol
117.110 116	EPA 8270C	2-Picoline
117.110 119	EPA 8270C	Pyrene
117.110 120	EPA 8270C	Pyridine
117.110 122	EPA 8270C	Safrole
117.110 124	EPA 8270C	1,2,4,5-Tetrachlorobenzene
117.110 125	EPA 8270C	2,3,4,6-Tetrachlorophenol
117.110 128	EPA 8270C	o-Toluidine
117.110 129	EPA 8270C	1,2,4-Trichlorobenzene
117.110 130	EPA 8270C	2,4,5-Trichlorophenol
117.110 131	EPA 8270C	2,4,6-Trichlorophenol
117.110 132	EPA 8270C	1,3,5-Trinitrobenzene
117.111 025	EPA 8270C	Dimethoate
117.111 026	EPA 8270C	Dinoseb
117.111 036	EPA 8270C	Famphur
117.111 039	EPA 8270C	Isodrin
117.111 040	EPA 8270C	Kepone
117.111 054	EPA 8270C	Parathion Ethyl
117.111 055	EPA 8270C	Parathion Methyl
117.111 056	EPA 8270C	Phorate
117.111 058	EPA 8270C	Sulfotepp
117.111 061	EPA 8270C	O,O,O-triethyl Phosphorothioate
117.140 001	EPA 8310	Acenaphthene
117.140 002	EPA 8310	Acenaphthylene
117.140 003	EPA 8310	Anthracene
117.140 004	EPA 8310	Benz(a)anthracene
117.140 005	EPA 8310	Benzo(a)pyrene
117.140 006	EPA 8310	Benzo(b)fluoranthene
117.140 007	EPA 8310	Benzo(k)fluoranthene
117.140 008	EPA 8310	Benzo(g,h,i)perylene
117.140 009	EPA 8310	Chrysene
117.140 010	EPA 8310	Dibenz(a,h)anthracene
117.140 011	EPA 8310	Fluoranthene
117.140 012	EPA 8310	Fluorene
117.140 013	EPA 8310	Indeno(1,2,3-c,d)pyrene
117.140 014	EPA 8310	Naphthalene
117.140 015	EPA 8310	Phenanthrene
117.140 016	EPA 8310	Pyrene
117.170 001	EPA 8330	4-Amino-2,6-dinitrotoluene
117.170 002	EPA 8330	2-Amino-4,6-dinitrotoluene
117.170 003	EPA 8330	1,3-Dinitrobenzene
117.170 004	EPA 8330	2,4-Dinitrotoluene
117.170 005	EPA 8330	2,6-Dinitrotoluene
	- A - BANK BANK BANK BANK BANK BANK BANK BANK	i i i i i i i i i i i i i i i i i i i

		Reflew Date. 00/31/2000
117.170 006	EPA 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
117.170 007	EPA 8330	Methyl-2,4,6-trinitrophenylnitramine
117.170 008	EPA 8330	Nitrobenzene
117.170 009	EPA 8330	2-Nitrotoluene
117.170 010	EPA 8330	3-Nitrotoluene
117.170 011	EPA 8330	4-Nitrotoluene
117.170 012	EPA 8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
117.170 013	EPA 8330	1,3,5-Trinitrobenzene
117.170 014	EPA 8330	2,4,6-Trinitrotoluene
117.190 001	EPA 8332	Nitroglycerine
117.210 001	EPA 8081A	Aldrin
117.210 002	EPA 8081A	a-BHC
117.210 003	EPA 8081A	b-BHC .
117.210 004	EPA 8081A	d-BHC
117.210 005	EPA 8081A	g-BHC (Lindane)
117.210 007	EPA 8081A	a-Chlordane
117.210 008	EPA 8081A	g-Chlordane
117.210 009	EPA 8081A	Chlordane (tech.)
117.210 010	EPA 8081A	Chlorobenzilate
117.210 011	EPA 8081A	Chloroneb
117.210 012	EPA 8081A	Chlorothalonil
117.210 013	EPA 8081A	4,4'-DDD
117.210 014	EPA 8081A	4,4'-DDE
117.210 015	EPA 8081A	4,4'-DDT
117.210 016	EPA 8081A	Diallate
117.210 020	EPA 8081A	Dieldrin
117.210 021	EPA 8081A	Endosulfan I
117.210 022	EPA 8081A	Endosulfan II
117.210 023	EPA 8081A	Endosulfan Sulfate
117.210 024	EPA 8081A	Endrin
117.210 025	EPA 8081A	Endrin Aldehyde
117.210 026	EPA 8081A	Endrin Ketone
117.210 027	EPA 8081A	Heptachlor
117.210 028	EPA 8081A	Heptachlor Epoxide
117.210 029	EPA 8081A	Hexachlorobenzene
117.210 033	EPA 8081A	Methoxychlor
117.210 039	EPA 8081A	Toxaphene
117.220 001	EPA 8082	PCB-1016
117.220 002	EPA 8082	PCB-1221
117.220 003	EPA 8082	PCB-1232
117.220 004	EPA 8082	PCB-1242
117.220 005	EPA 8082	PCB-1248
117.220 006	EPA 8082	PCB-1254
117.220 007	EPA 8082	PCB-1260
117.220 008	EPA 8082	2-Chlorobiphenyl
117.220 009	EPA 8082	2,3-Dichlorobiphenyl
117.220 010 117.220 011	EPA 8082 EPA 8082	2,2',5-Trichlorobiphenyl 2,4',5-Trichlorobiphenyl
117.220 011	LFM 0002	4,4,5-monoroupnanyi

147.000 040	EDA 9092	2.21.2.51 Tates ablas ablaband
117.220 012	EPA 8082	2,2',3,5'-Tetrachlorobiphenyl
117.220 013	EPA 8082	2,2',5,5'-Tetrachlorobiphenyl
117.220 014	EPA 8082	2,3',4,4'-Tetrachlorobiphenyl
117.220 015	EPA 8082	2,2',3,4,5'-Pentachlorobiphenyl
117.220 016	EPA 8082	2,2',4,5,5'-Pentachlorobiphenyl
117.220 017	EPA 8082	2,3,3',4',6-Pentachlorobiphenyl
117.220 018	EPA 8082	2,2',3,4,4',5'-Hexachlorobiphenyl
117.220 019	EPA 8082	2,2',3,4,5,5'-Hexachlorobiphenyl
117.220 020	EPA 8082	2,2',3,5,5',6-Hexachlorobiphenyl
117.220 021	EPA 8082	2,2',4,4',5,5'-Hexachlorobiphenyl
117.220 022	EPA 8082	2,2',3,3',4,4',5-Heptachlorobiphenyl
117.220 023	EPA 8082	2,2',3,4,4',5,5'-Heptachlorobiphenyl
117.220 024	EPA 8082	2,2',3;4,4',5',6-Heptachlorobiphenyl
117.220 025	EPA 8082	2,2',3,4',5,5',6-Heptachlorobiphenyl
117.220 026	EPA 8082	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
117.240 001	EPA 8141A	Atrazine
117.240 002	EPA 8141A	Azinphos Methyl
117.240 004	EPA 8141A	Chlorfenvinphos
117.240 005	EPA 8141A	Chlorpyrifos
117.240 006	EPA 8141A	Chlorpyrifos Methyl
117.240 007	EPA 8141A	Demeton-O
117.240 008	EPA 8141A	Demeton-S
117.240 009	EPA 8141A	Diazinon
117.240 010	EPA 8141A	Dimethoate
117.240 012	EPA 8141A	EPN
117.240 013	EPA 8141A	Ethion
117.240 014	EPA 8141A	Famphur
117.240 015	EPA 8141A	Malathion
117.240 016	EPA 8141A	Mevinphos
117.240 017	EPA 8141A	Naled
117.240 018	EPA 8141A	Parathion Ethyl
117.240 019	EPA 8141A	Parathion Methyl
117.240 020	EPA 8141A	Phorate
117.240 022	EPA 8141A	Ronnel
117.240 024	EPA 8141A	Sulfotepp
117.240 026	EPA 8141A	Thionazin
117.250 001	EPA 8151A	2,4-D
117.250 002	EPA 8151A	2,4-DB
117.250 003	EPA 8151A	2,4,5-T
117.250 004	EPA 8151A	2,4,5-TP
117.250 006	EPA 8151A	Dalapon
117.250 007	EPA 8151A	Dichlorprop
117.250 008	EPA 8151A	Dinoseb
117.250 009	EPA 8151A	MCPA
117.250 010	EPA 8151A	MCPP
117.250 011	EPA 8151A	4-Nitrophenol
117.250 012	EPA 8151A	Pentachlorophenol
117.250 013	EPA 8151A	Picloram

EMAX LABORATORIES, INC.

Certificate No: 02116CA Renew Date:

08/31/2006

117.250 014	EPA 8151A	Dicamba	- without a second
117.250 015	EPA 8151A	3,5-Dichlorobenzoic Acid	Edward De Brands
117.250 016	EPA 8151A	Acifluorfen	NAME OF THE OWNER O
117.250 017	EPA 8151A	Bentazon	
117.250 018	EPA 8151A	Chloramben	
117.250 019	EPA 8151A	DCPA	
	EPA 8151A Properties of Hazardous Waste	DCPA	
	Properties of Hazardous Waste	Ignitability	
20 - Physical	Properties of Hazardous Waste EPA 1010		
2 0 - Physical 120.010 001	Properties of Hazardous Waste EPA 1010 Section 7.3 SW-846	Ignitability	60000000
2 0 - Physical 120.010 00 ⁴ 120.040 00 ⁴	Properties of Hazardous Waste EPA 1010 Section 7.3 SW-846 Section 7.3 SW-846	Ignitability Reactive Cyanide	

STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

NELAP - RECOGNIZED

ACCREDITATION

Is hereby granted to

EMAX LABORATORIES, INC.

1835 WEST 205th STREET TORRANCE, CA 90501

Scope of accreditation is limited to the "NELAP Fields of Accreditation" which accompanies this Certificate.

Continued accredited status depends on successful ongoing participation in the program.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 02116CA

Expiration Date: 08/31/2007

Effective Date: 08/31/2006

Richmond, California subject to forfeiture or revocation

George C. Kuly Z.
George C. Kulasingam, Ph. B.

Program Chief

Environmental Laboratory Accreditation Program



CALIFORNIA DEPARTMENT OF HEALTH SERVICES

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM - NELAP RECOGNIZED Fields of Accreditation



EMAX LABORATORIES, INC.

Lab Phone (310) 618-8889

1835 WEST 205th STREET TORRANCE, CA 90501

102 - Inorg	janic C	Chemistry of Drinking Water	
102.030	001	EPA 300.0	Bromide
102.030	002	EPA 300.0	Chlorate
102.030	003	EPA 300.0	Chloride
102.030	005	EPA 300.0	Fluoride
102.030	006	EPA 300.0	Nitrate
102.030	007	EPA 300.0	Nitrite
102.030	800	EPA 300.0	Phosphate, Ortho
102.030	010	EPA 300.0	Sulfate
102.040	004	EPA 300.1	Bromate
102.045	001	EPA 314.0	Perchlorate
102.100	001	SM2320B	Alkalinity
102.120	001	SM2340B	Hardness
102.121	001	SM2340C	Hardness
102.130	001	SM2510B	Conductivity
102.140	001	SM2540C	Total Dissolved Solids
102.145	001	EPA 160.1	Total Dissolved Solids
102.150	001	SM4110B	Chloride
102.150	002	SM4110B	Fluoride
102.150	003	SM4110B	Nitrate
102.150	004	SM4110B	Nitrite
102.150	005	SM4110B	Phosphate, Ortho
102.150	006	SM4110B	Sulfate
102.200	001	SM4500-F C	Fluoride
102.260	001	SM5310B	Total Organic Carbon
102.261	001	SM5310B	DOC
102.270	001	SM5540C	Surfactants
102.520	001	EPA 200.7	Calcium
102.520	002	EPA 200.7	Magnesium
102.520	003	EPA 200.7	Potassium
102.520	004	EPA 200.7	Silica
102.520	005	EPA 200.7	Sodium
103 - Toxi	c Chei	mical Elements of Drinking Water	
402 420	001	EPA 200.7	Aluminum

103.130	003	EPA 200.7	Barium
103.130	004	EPA 200.7	Beryllium
103.130	005	EPA 200.7	Cadmium
103.130	007	EPA 200.7	Chromium
103.130	800	EPA 200.7	Copper
103.130	009	EPA 200.7	Iron
103.130	011	EPA 200.7	Manganese
103.130	012	EPA 200.7	Nickel
103.130	015	EPA 200.7	Silver
103.130	017	EPA 200.7	Zinc
103.140	001	EPA 200.8	Aluminum
103.140	002	EPA 200.8	Antimony
103.140	003	EPA 200.8	Arsenic
103.140	004	EPA 200.8	Barium
103.140	005	EPA 200.8	Beryllium
103.140	006	EPA 200.8	Cadmium
103.140	007	EPA 200.8	Chromium
103.140	800	EPA 200.8	Copper
103.140	009	EPA 200.8	Lead
103.140	010	EPA 200.8	Manganese
103.140	011	EPA 200.8	Mercury
103.140	012	EPA 200.8	Nickel
103.140	013	EPA 200.8	Selenium
103.140	014	EPA 200.8	Silver
103.140	015	EPA 200.8	Thallium
103.140	016	EPA 200.8	Zinc
103.161	001	EPA 245.2	Mercury
104 - Vola	tile Or	ganic Chemistry of Drinking Water	
104.030		EPA 504.1	1,2-Dibromoethane
104.030	002	EPA 504.1	1,2-Dibromo-3-chloropropane
104.040	000	EPA 524.2	Volatile Organic Compounds
104.040	001	EPA 524.2	Benzene
104.040	002	EPA 524.2	Bromobenzene
104.040	003	EPA 524.2	Bromochloromethane
104.040	006	EPA 524.2	Bromomethane
104.040	007	EPA 524.2	n-Butylbenzene
104.040	008	EPA 524.2	sec-Butylbenzene
104.040	009	EPA 524.2	tert-Butylbenzene
104.040	010	EPA 524.2	Carbon Tetrachloride
104.040	011	EPA 524.2	Chlorobenzene
104.040	012	EPA 524.2	Chloroethane
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104.040 01		Chloromethane
104.040 01	15 EPA 524.2	2-Chlorotoluene
104.040 01	16 EPA 524.2	4-Chlorotoluene
104.040 01	18 EPA 524.2	Dibromomethane
104.040 01	19 EPA 524.2	1,3-Dichlorobenzene
104.040 02	20 EPA 524.2	1,2-Dichlorobenzene
104.040 02	21 EPA 524.2	1,4-Dichlorobenzene
104.040 02	22 EPA 524.2	Dichlorodifluoromethane
104.040 02	23 EPA 524.2	1,1-Dichloroethane
104.040 02	24 EPA 524.2	1,2-Dichloroethane
104.040 02	25 EPA 524.2	1,1-Dichloroethene
104.040 02	26 EPA 524.2	cis-1,2-Dichloroethene
104.040 02	27 EPA 524.2	trans-1,2-Dichloroethene
104.040 02	28 EPA 524.2	Dichloromethane
104.040 02	29 EPA 524.2	1,2-Dichloropropane
104.040 03	30 EPA 524.2	1,3-Dichloropropane
104.040 03	31 EPA 524.2	2,2-Dichloropropane
104.040 03	32 EPA 524.2	1,1-Dichloropropene
104.040 03	33 EPA 524.2	cis-1,3-Dichloropropene
104.040 03	34 EPA 524.2	trans-1,3-Dichloropropene
104.040 03	35 EPA 524.2	Ethylbenzene
104.040 03	36 EPA 524.2	Hexachlorobutadiene
104.040 03	37 EPA 524.2	Isopropylbenzene
104.040 03	38 EPA 524.2	4-Isopropyltoluene
104.040 03	39 EPA 524.2	Naphthalene
104.040 04	40 EPA 524.2	Nitrobenzene
104.040 04	41 EPA 524.2	N-propylbenzene
104.040 04	42 EPA 524.2	Styrene
104.040 04	43 EPA 524.2	1,1,1,2-Tetrachloroethane
104.040 04	44 EPA 524.2	1,1,2,2-Tetrachloroethane
104.040 04	45 EPA 524.2	Tetrachloroethene
104.040 04	46 EPA 524.2	Toluene
104.040 04	47 EPA 524.2	1,2,3-Trichlorobenzene
104.040 04	48 EPA 524.2	1,2,4-Trichlorobenzene
104.040 04	49 EPA 524.2	1,1,1-Trichloroethane
104.040 05	50 EPA 524.2	1,1,2-Trichloroethane
104.040 05	51 EPA 524.2	Trichloroethene
104.040 05	52 EPA 524.2	Trichlorofluoromethane
104.040 05	53 EPA 524.2	1,2,3-Trichloropropane
104.040 0	54 EPA 524.2	1,2,4-Trimethylbenzene
104.040 0	55 EPA 524.2	1,3,5-Trimethylbenzene
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104.040	056	EPA 524.2	Vinyl Chloride
104.040	057	EPA 524.2	Xylenes, Total
104.045	001	EPA 524.2	Bromodichloromethane
104.045	002	EPA 524.2	Bromoform
104.045	003	EPA 524.2	Chloroform
104.045	004	EPA 524.2	Dibromochloromethane
104.045	005	EPA 524.2	Trihalomethanes
104.050	002	EPA 524.2	Methyl tert-butyl Ether (MTBE)
104.050	004	EPA 524.2	tert-Amyl Methyl Ether (TAME)
104.050	005	EPA 524.2	Ethyl tert-butyl Ether (ETBE)
104.050	006	EPA 524.2	Trichlorotrifluoroethane
108 - Inorg	anic (Chemistry of Wastewater	
108.016	001	EPA 110.2	Color
108.020	001	EPA 120.1	Conductivity
108.030	001	EPA 130.1	Hardness
108.040	001	EPA 130.2	Hardness
108.050	001	EPA 150.1	pH
108.060	001	EPA 160.1	Residue, Filterable
108.070	001	EPA 160.2	Residue, Non-filterable
108.080	001	EPA 160.3	Residue, Total
108.090	001	EPA 160.4	Residue, Volatile
108.100	001	EPA 160.5	Residue, Settleable
108.110	001	EPA 180.1	Turbidity
108.112	001	EPA 200.7	Boron
108.112	002	EPA 200.7	Calcium
108.112	004	EPA 200.7	Magnesium
108.112	005	EPA 200.7	Potassium
108.112	006	EPA 200.7	Sílica
108.112	007	EPA 200.7	Sodium
108.120	001	EPA 300.0	Bromide
108.120	002	EPA 300.0	Chloride
108.120	003	EPA 300.0	Fluoride
108.120	004	EPA 300.0	Nitrate
108.120	005	EPA 300.0	Nitrite
108.120	006	EPA 300.0	Nitrate-nitrite, Total
108.120	007	EPA 300.0	Phosphate, Ortho
108.120	800	EPA 300.0	Sulfate
108.130	001	EPA 305.1	Acidity
108.140	001	EPA 310.1	Alkalinity
108.172	001	EPA 330.3	Chlorine Residual, Total
108.181	001	EPA 335.2	Cyanide, Total

108.191	001	EPA 340.2	Fluoride
108.201	001	EPA 350.2	Ammonia
108.212	001	EPA 351.3	Kjeldahl Nitrogen
108.234	001	EPA 353.3	Nitrate-nitrite, Total
108.235	001	EPA 353.3	Nitrate calc.
108.262	001	EPA 365.2	Phosphate, Ortho
108.263	001	EPA 365.2	Phosphorus, Total
108.270	001	EPA 370.1	Dissolved Silica
108.290	001	EPA 376.1	Sulfide
108.291	001	EPA 376.2	Sulfide
108.300	001	EPA 377.1	Sulfite
108.310	001	EPA 405.1	Biochemical Oxygen Demand
108.323	001	EPA 410.4	Chemical Oxygen Demand
108.330	001	EPA 413.1	Oil and Grease
108.340	001	EPA 415.1	Total Organic Carbon
108.350	001	EPA 418.1	Total Recoverable Petroleum Hydrocarbons
108.360	001	EPA 420.1	Phenols, Total
108.370	001	EPA 425.1	Surfactants
108.380	001	EPA 1664	Oil and Grease
108.390	001	SM2130B	Turbidity
108.400	001	SM2310B	Acidity
108.410	001	SM2320B	Alkalinity
108.420	001	SM2340B	Hardness (calc.)
108.421	001	SM2340C	Hardness
108.430	001	SM2510B	Conductivity
108.440	001	SM2540B	Residue, Total
108.441	001	SM2540C	Residue, Filterable
108.442	001	SM2540D	Residue, Non-filterable
108.443	001	SM2540F	Residue, Settleable
108.480	001	SM4500-F C	Fluoride
108.490	001	SM4500-H+B	pH
108.590	001	SM5210B	Biochemical Oxygen Demand
108.602	001	SM5220D	Chemical Oxygen Demand
108.610	001	SM5310B	Total Organic Carbon
108.630	001	SM5520B	Oil and Grease
109 - Toxi	c Che	mical Elements of Wastewater	
109.010	001	EPA 200.7	Aluminum
109.010	002	EPA 200.7	Antimony
109.010	003	EPA 200.7	Arsenic
109.010	004	EPA 200.7	Barium
109.010	005	EPA 200.7	Beryllium

109.010	007	EPA 200.7	Cadmium
109.010	009	EPA 200.7	Chromium
109.010	010	EPA 200.7	Cobalt
109.010	011	EPA 200.7	Copper
109.010	012	EPA 200.7	Iron
109.010	013	EPA 200.7	Lead
109.010	015	EPA 200.7	Manganese
109.010	016	EPA 200.7	Molybdenum
109.010	017	EPA 200.7	Nickel
109.010	019	EPA 200.7	Selenium
109.010	021	EPA 200.7	Silver
109.010	023	EPA 200.7	Thallium
109.010	024	EPA 200.7	Tin
109.010	025	EPA 200.7	Titanium
109.010	026	EPA 200.7	Vanadium
109.010	027	EPA 200.7	Zinc
109.020	001	EPA 200.8	Aluminum
109.020	002	EPA 200.8	Antimony
109.020	003	EPA 200.8	Arsenic
109.020	004	EPA 200.8	Barium
109.020	005	EPA 200.8	Beryllium
109.020	006	EPA 200.8	Cadmium
109.020	007	EPA 200.8	Chromium
109.020	800	EPA 200.8	Cobalt
109.020	009	EPA 200.8	Copper
109.020	010	EPA 200.8	Lead
109.020	011	EPA 200.8	Manganese
109.020	012	EPA 200.8	Molybdenum
109.020	013	EPA 200.8	Nickel
109.020	014	EPA 200.8	Selenium
109.020	015	EPA 200.8	Silver
109.020	016	EPA 200.8	Thallium
109.020	017	EPA 200.8	Vanadium
109.020	018	EPA 200.8	Zinc
109.104	001	EPA 218.6	Chromium (VI)
110 - Vola	tile Or	ganic Chemistry of Wastewater	
110.040	001	EPA 624	Benzene
110.040	002	EPA 624	Bromodichloromethane
110.040	003	EPA 624	Bromoform
110.040	004	EPA 624	Bromomethane
110.040	005	EPA 624	Carbon Tetrachloride
		to the second control of the second control	

110.040 07 EPA 624 Chloroethane	110.040	006	EPA 624	Chlorobenzene
110.040 008 EPA 524 2-Chtoroethy Vinyl Ether 110.040 110 EPA 524 Chtoroform 110.040 011 EPA 524 Chtoroform 110.040 011 EPA 524 Dibmonchformethane 110.040 012 EPA 524 1.2-Dishlorobenzene 110.040 013 EPA 524 1.3-Dishlorobenzene 110.040 014 EPA 524 1.3-Dishlorobenzene 110.040 015 EPA 524 1.1-Dishlorobenzene 110.040 016 EPA 524 1.1-Dishlorobenzene 110.040 016 EPA 524 1.1-Dishlorobenzene 110.040 017 EPA 524 1.1-Dishlorobenzene 110.040 017 EPA 524 1.1-Dishlorobenzene 110.040 018 EPA 524 1.1-Dishlorobenzene 110.040 018 EPA 524 1.1-Dishlorobenzene 110.040 019 EPA 524 1.1-Dishlorobenzene 110.040 019 EPA 524 1.1-Dishlorobenzene 110.040 020 EPA 524 1.1-Dishlorobenzene 110.040 021 EPA 524 1.1-Dishlorobenzene 110.040 022 EPA 524 1.1-Dishlorobenzene 110.040 021 EPA 524 Ethybenzone 110.040 022 EPA 524 Ethybenzone 110.040 022 EPA 524 Ethybenzone 110.040 023 EPA 524 Ethybenzone 110.040 024 EPA 524 Ethybenzone 110.040 025 EPA 524 Tetachlorobethane 110.040 025 EPA 524 Tetachlorobethane 110.040 025 EPA 524 Tetachlorobethane 110.040 026 EPA 524 Tetachlorobethane 110.040 027 EPA 524 Tetachlorobethane 110.040 028 EPA 525 Accomplithytene 110.040 029 EPA 525 Accomplithytene 110.040 029 EPA 525 Benziglian 110.040 02				
110.040 009 EPA 524 Chloroform				
110.040				
110.040				
110.040				
110.040 013 EPA 624	W		A AAAAAA	
110.040				·
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111.100 012 EPA 625 Bis(2-chloroethyl) Ether	111.100	010	EPA 625	Benzyl Butyl Phthalate
	111.100	011	EPA 625	Bis(2-chloroethoxy)methane
111.100 013 EPA 625 Bis(2-chloroisopropyl) Ether	111.100	012	EPA 625	
	111.100	013	EPA 625	Bis(2-chloroisopropyl) Ether

111.100 014	EPA 625	Di(2-ethylhexyl) Phthalate
111.100 014	EPA 625	4-Bromophenyl Phenyl Ether
111.100 015	EPA 625	4-Chloro-3-methylphenol
111.100 017	EPA 625	2-Chloronaphthalene
111.100 018	EPA 625	2-Chlorophenol
111.100 019	EPA 625	4-Chlorophenyl Phenyl Ether
111.100 020	EPA 625	Chrysene
111.100 021	EPA 625	Dibenz(a,h)anthracene
111.100 022	EPA 625	1,2-Dichlorobenzene
111.100 023	EPA 625	1,3-Dichlorobenzene
111.100 024	EPA 625	1,4-Dichlorobenzene
111.100 025	EPA 625	3,3'-Dichlorobenzidine
111.100 026	EPA 625	2,4-Dichlorophenol
111.100 027	EPA 625	Diethyl Phthalate
111.100 028	EPA 625	2,4-Dimethylphenol
111.100 029	EPA 625	Dimethyl Phthalate
111.100 030	EPA 625	Di-n-butyl phthalate
111.100 031	EPA 625	Di-n-octyl phthalate
111.100 032	EPA 625	2,4-Dinitrophenol
111.100 033	EPA 625	2,4-Dinitrotoluene
111.100 034	EPA 625	2,6-Dinitrotoluene
111.100 035	EPA 625	Fluoranthene
111.100 036	EPA 625	Fluorene
111.100 037	EPA 625	Hexachlorobenzene
111.100 038	EPA 625	Hexachlorobutadiene
111.100 039	EPA 625	Hexachlorocyclopentadiene
111.100 040	EPA 625	Hexachloroethane
111.100 041	EPA 625	Indeno(1,2,3-c,d)pyrene
111.100 042	EPA 625	Isophorone
111.100 043	EPA 625	2-Methyl-4,6-dinitrophenol
111.100 044	EPA 625	Naphthalene
111.100 045	EPA 625	Nitrobenzene
111.100 046	EPA 625	2-Nitrophenol
111.100 047	EPA 625	4-Nitrophenol
111.100 048	EPA 625	N-nitrosodimethylamine
111.100 049	EPA 625	N-nitrosodi-n-propylamine
111.100 050	EPA 625	N-nitrosodiphenylamine
111.100 051	EPA 625	Pentachlorophenol
111.100 052	EPA 625	Phenanthrene
111.100 053	EPA 625	Phenol
111.100 054	EPA 625	Pyrene

111.100 055	FDA 605	4.2.4 Triphlandaryana
	EPA 625	1,2,4-Trichlorobenzene
111.100 056	EPA 625	2,4,6-Trichlorophenol
111.170 001	EPA 608	Aldrin
111.170 002		a-BHC
111.170 003	EPA 608	b-BHC
111.170 004	EPA 608	d-BHC
111.170 005	EPA 608	g-BHC (Lindane)
111.170 006	EPA 608	Chlordane
111.170 007	EPA 608	4,4'-DDD
111.170 008	EPA 608	4,4'-DDE
111.170 009	EPA 608	4,4'-DDT
111.170 010	EPA 608	Dieldrin
111.170 011	EPA 608	Endosulfan I
111.170 012	EPA 608	Endosulfan II
111.170 013	EPA 608	Endosulfan Sulfate
111.170 014	EPA 608	Endrin
111.170 015	EPA 608	Endrin Aldehyde
111.170 016	EPA 608	Heptachlor
111.170 017	EPA 608	Heptachlor Epoxide
111.170 018	EPA 608	Toxaphene
111.170 019	EPA 608	PCB-1016
111.170 020	EPA 608	PCB-1221
111.170 021	EPA 608	PCB-1232
111.170 022	EPA 608	PCB-1242
111.170 023	EPA 608	PCB-1248
111.170 024	EPA 608	PCB-1254
111.170 025	EPA 608	PCB-1260
111.170 031	EPA 608	PCBs
114 - Inorganic	Chemistry of Hazardous Waste	
114.010 001	EPA 6010B	Antimony
114.010 002	EPA 6010B	Arsenic
114.010 003	EPA 6010B	Barium
114.010 004	EPA 6010B	Beryllium
114.010 005	EPA 6010B	Cadmium
114.010 006	EPA 6010B	Chromium
114.010 007	EPA 6010B	Cobalt
114.010 008	EPA 6010B	Copper
114.010 009	EPA 6010B	Lead
114.010 010	EPA 6010B	Molybdenum
114.010 011	EPA 6010B	Nickel
114.010 012	EPA 6010B	Selenium

EMAX LABORATORIES, INC.

Certificate No: 02116CA Renew Date:

08/31/2007

114.010	013	EPA 6010B	Silver
114.010	014	EPA 6010B	Thallium
114.010	015	EPA 6010B	Vanadium
114.010	016	EPA 6010B	Zinc
114.020	001	EPA 6020	Antimony
114.020	002	EPA 6020	Arsenic
114.020	003	EPA 6020	Barium
114.020	004	EPA 6020	Beryllium
114.020	005	EPA 6020	Cadmium
114.020	006	EPA 6020	Chromium
114.020	007	EPA 6020	Cobalt
114.020	800	EPA 6020	Copper
114.020	009	EPA 6020	Lead
114.020	010	EPA 6020	Molybdenum
114.020	011	EPA 6020	Nickel
114.020	012	EPA 6020	Selenium
114.020	013	EPA 6020	Silver
114.020	014	EPA 6020	Thallium
114.020	015	EPA 6020	Vanadium
114.020	016	EPA 6020	Zinc
114.103	001	EPA 7196A	Chromium (VI)
114.106	001	EPA 7199	Chromium (VI)
114.140	001	EPA 7470A	Mercury
114.141	001	EPA 7471A	Mercury
114.222	001	EPA 9014	Cyanide
114.230	001	EPA 9034	Sulfides, Total
114.240	001	EPA 9040B	Corrosivity - pH Determination
114.241	001	EPA 9045C	Corrosivity - pH Determination
114.250	001	EPA 9056	Fluoride
115 - Extra	action	Test of Hazardous Waste	
115.020	001	EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
115.030	001	CCR Chapter11, Article 5, Appendix II	Waste Extraction Test (WET)
115.040	001	EPA 1312	Synthetic Precipitation Leaching Procedure (SPLP)
116 - Vola	tile Or	ganic Chemistry of Hazardous Waste	
116.010	001	EPA 8011	1,2-Dibromoethane
116.010	002	EPA 8011	Dibromochloropropane
116.020	011	EPA 8015B	Ethylene Glycol
116.030	001	EPA 8015B	Gasoline-range Organics
116.040	002	EPA 8021B	Benzene
116.040	039	EPA 8021B	Ethylbenzene
116.040		EPA 8021B	Methyl tert-butyl Ether (MTBE)

116.040 047	EPA 8021B	Toluene
116.040 056	EPA 8021B	Xylenes, Total
116.080 001	EPA 8260B	Acetone
116.080 002	EPA 8260B	Acetonitrile
116.080 003	EPA 8260B	Acrolein
116.080 004	EPA 8260B	Acrylonitrile
116.080 005	EPA 8260B	Allyl Alcohol
116.080 006	EPA 8260B	Allyl Chloride
116.080 007	EPA 8260B	Benzene
116.080 009	EPA 8260B	Bromoacetone
116.080 010	EPA 8260B	Bromochloromethane
116.080 011	EPA 8260B	Bromodichloromethane
116.080 012	EPA 8260B	Bromoform
116.080 013	EPA 8260B	Bromomethane
116.080 014	EPA 8260B	n-Butyl Alcohol
116.080 015	EPA 8260B	Carbon Disulfide
116.080 016	EPA 8260B	Carbon Tetrachloride
116.080 018	EPA 8260B	Chlorobenzene
116.080 019	EPA 8260B	Chloroethane
116.080 020	EPA 8260B	2-Chloroethyl Vinyl Ether
116.080 021	EPA 8260B	Chloroform
116.080 022	EPA 8260B	Chloromethane
116.080 023	EPA 8260B	Chloroprene
116.080 024	EPA 8260B	3-Chloropropionitrile
116.080 025	EPA 8260B	Crotonaldehyde
116.080 026	EPA 8260B	Dibromochloromethane
116.080 027	EPA 8260B	Dibromochloropropane
116.080 028	EPA 8260B	1,2-Dibromoethane
116.080 030	EPA 8260B	Dibromomethane
116.080 031	EPA 8260B	1,2-Dichlorobenzene
116.080 032	EPA 8260B	1,3-Dichlorobenzene
116.080 033	EPA 8260B	1,4-Dichlorobenzene
116.080 034	EPA 8260B	cis-1,4-Dichloro-2-butene
116.080 035	EPA 8260B	trans-1,4-Dichloro-2-butene
116.080 036	EPA 8260B	Dichlorodifluoromethane
116.080 037	EPA 8260B	1,1-Dichloroethane
116.080 038	EPA 8260B	1,2-Dichloroethane
116.080 039	EPA 8260B	1,1-Dichloroethene
116.080 040	EPA 8260B	trans-1,2-Dichloroethene
116.080 041	EPA 8260B	cis-1,2-Dichloroethene
116.080 042	EPA 8260B	1,2-Dichloropropane

116.080	043	EPA 8260B	1,3-Dichloropropane
116.080	044	EPA 8260B	2,2-Dichloropropane
116.080	045	EPA 8260B	1,1-Dichloropropene
116.080	046	EPA 8260B	cis-1,3-Dichloropropene
116.080	047	EPA 8260B	trans-1,3-Dichloropropene
116.080	048	EPA 8260B	1,3-Dichloro-2-propanol
116.080	049	EPA 8260B	1,2,3,4-Diepoxybutane
116.080	050	EPA 8260B	1,4-Dioxane
116.080	053	EPA 8260B	Ethylbenzene
116.080	055	EPA 8260B	Ethyl Methacrylate
116.080	056	EPA 8260B	Hexachlorobutadiene
116.080	058	EPA 8260B	2-Hexanone (MBK)
116.080	059	EPA 8260B	lodomethane
116.080	060	EPA 8260B	Isobutyl Alcohol
116.080	061	EPA 8260B	Malononitrile
116.080	062	EPA 8260B	Methacrylonitrile
116.080	064	EPA 8260B	Methyl tert-butyl Ether (MTBE)
116.080	065	EPA 8260B	Methylene Chloride
116.080	066	EPA 8260B	Methyl Ethyl Ketone
116.080	067	EPA 8260B	Methyl Methacrylate
116.080	068	EPA 8260B	4-Methyl-2-pentanone (MIBK)
116.080	069	EPA 8260B	Naphthalene
116.080	070	EPA 8260B	Nitrobenzene
116.080	072	EPA 8260B	N-nitrosodi-n-butylamine
116.080	074	EPA 8260B	Pentachloroethane
116.080	075	EPA 8260B	Pentafluorobenzene
116.080	076	EPA 8260B	2-Picoline
116.080	078	EPA 8260B	Propionitrile
116.080	079	EPA 8260B	N-propylamine
116.080	080	EPA 8260B	Pyridine
116.080	081	EPA 8260B	1,1,1,2-Tetrachloroethane
116.080	082	EPA 8260B	1,1,2,2-Tetrachloroethane
116.080	083	EPA 8260B	Tetrachloroethene
116.080	084	EPA 8260B	Toluene
116.080	086	EPA 8260B	1,2,3-Trichlorobenzene
116.080	087	EPA 8260B	1,2,4-Trichlorobenzene
116.080	088	EPA 8260B	1,1,1-Trichloroethane
116.080	089	EPA 8260B	1,1,2-Trichloroethane
116.080	090	EPA 8260B	Trichloroethene
116.080	091	EPA 8260B	Trichlorofluoromethane
116.080	092	EPA 8260B	1,2,3-Trichloropropane

116.080	093	EPA 8260B	Vinyl Acetate
116.080	094	EPA 8260B	Vinyl Chloride
116.080	095		Xylenes, Total
116.080	096	EPA 8260B	tert-Amyl Methyl Ether (TAME)
116.080	097	EPA 8260B	tert-Butyl Alcohol (TBA)
116.080	098	EPA 8260B	Ethyl tert-butyl Ether (ETBE)
116.080	099	EPA 8260B	Bromobenzene
116.080	100	EPA 8260B	n-Butylbenzene
116.080	101	EPA 8260B	sec-Butylbenzene
116.080	102	EPA 8260B	tert-Butylbenzene
116.080	103	EPA 8260B	2-Chlorotoluene
116.080	104	EPA 8260B	4-Chlorotoluene
116.080	105	EPA 8260B	Isopropylbenzene
116.080	106	EPA 8260B	N-propylbenzene
116.080	107	EPA 8260B	Styrene
116.080	108	EPA 8260B	1,2,4-Trimethylbenzene
116.080	109	EPA 8260B	1,3,5-Trimethylbenzene
117 - Semi	-volat	ile Organic Chemistry of Hazardous Was	ste
117.010	001	EPA 8015B	Diesel-range Total Petroleum Hydrocarbons
117.015	001	LUFT GC/MS	Diesel-range Total Petroleum Hydrocarbons
117.016	001	LUFT	Diesel-range Total Petroleum Hydrocarbons
117.017	001	EPA 418.1	TRPH Screening
117.110	001	EPA 8270C	Acenaphthene
117.110	002	EPA 8270C	Acenaphthylene
117.110	003	EPA 8270C	Acetophenone
117.110	004	EPA 8270C	2-Acetylaminofluorene
117.110	005	EPA 8270C	1-Acetyl-2-thiourea
117.110	006	EPA 8270C	4-Aminobiphenyl
117.110	007	EPA 8270C	Aniline
117.110	800	EPA 8270C	Anthracene
117.110	010	EPA 8270C	Benzidine
117.110	011	EPA 8270C	Benz(a)anthracene
117.110	012	EPA 8270C	Benzo(b)fluoranthene
117.110	013	EPA 8270C	Benzo(k)fluoranthene
117.110	014	EPA 8270C	Benzo(g,h,i)perylene
117.110	015	EPA 8270C	Benzo(a)pyrene
117.110	016	EPA 8270C	Benzoic Acid
117.110	017	EPA 8270C	p-Benzoquinone
117.110	018	EPA 8270C	Benzyl Alcohol
117.110	019	EPA 8270C	Benzyl Butyl Phthalate
117.110	020	EPA 8270C	Bis(2-chloroethoxy)methane

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117.110 021	EPA 8270C	Bis(2-chloroethyl) Ether
117.110 022	AND THE PROPERTY OF THE PROPER	Bis(2-chloroisopropyl) Ether
117.110 023	EPA 8270C	Di(2-ethylhexyl) Phthalate
117.110 024	EPA 8270C	4-Bromophenyl Phenyl Ether
117.110 025	EPA 8270C	Carbazole
117.110 026	EPA 8270C	4-Chloroaniline
117.110 027	EPA 8270C	4-Chloro-3-methylphenol
117.110 029	EPA 8270C	2-Chloronaphthalene
117.110 030	EPA 8270C	2-Chlorophenol
117.110 031	EPA 8270C	4-Chlorophenyl Phenyl Ether
117.110 032	EPA 8270C	Chrysene
117.110 033	EPA 8270C	2-Cyclohexyl-4,6-dinitrophenol
117.110 034	EPA 8270C	2,4-Diaminotoluene
117.110 036	EPA 8270C	Dibenz(a,h)anthracene
117.110 037	EPA 8270C	Dibenzofuran
117.110 038	EPA 8270C	Dibenzo(a,e)pyrene
117.110 039	EPA 8270C	1,2-Dichlorobenzene
117.110 040	EPA 8270C	1,3-Dichlorobenzene
117.110 041	EPA 8270C	1,4-Dichlorobenzene
117.110 042	EPA 8270C	3,3'-Dichlorobenzidine
117.110 043	EPA 8270C	2,4-Dichlorophenol
117.110 044	EPA 8270C	2,6-Dichlorophenol
117.110 045	EPA 8270C	Diethyl Phthalate
117.110 050	EPA 8270C	p-Dimethylaminoazobenzene
117.110 051	EPA 8270C	7,12-Dimethylbenz(a)anthracene
117.110 052	EPA 8270C	a,a-Dimethylphenethylamine
117.110 053	EPA 8270C	2,4-Dimethylphenol
117.110 054	EPA 8270C	Dimethyl Phthalate
117.110 055	EPA 8270C	Di-n-butyl phthalate
117.110 056	EPA 8270C	Di-n-octyl phthalate
117.110 060	EPA 8270C	2,4-Dinitrophenol
117.110 061	EPA 8270C	2,4-Dinitrotoluene
117.110 062	EPA 8270C	2,6-Dinitrotoluene
117.110 063	EPA 8270C	Diphenylamine
117.110 064	EPA 8270C	1,2-Diphenylhydrazine
117.110 066	EPA 8270C	Ethyl Methanesulfonate
117.110 067	EPA 8270C	Fluoranthene
117.110 068	EPA 8270C	Fluorene
117.110 069	EPA 8270C	Hexachlorobenzene
117.110 070	EPA 8270C	Hexachlorobutadiene
117.110 071	EPA 8270C	Hexachlorocyclopentadiene

117.110 073 EPA 8270C Hexachlorophene 117.110 075 EPA 8270C Hexachlorophene 117.110 075 EPA 8270C Indeno(1,2,3-c.)dlyprane 117.110 076 EPA 8270C Indeno(1,2,3-c.)dlyprane 117.110 077 EPA 8270C Isositote 117.110 078 EPA 8270C Isositote 117.110 078 EPA 8270C Malei-Anlydido 117.110 078 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 080 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 081 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 082 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 085 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 085 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 086 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 087 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 088 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 089 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 089 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 089 EPA 8270C 1-Mirlyl-4,6-ditriophene 117.110 091 EPA 8270C 1-Mirlyl-4,6-ditriophene 117.110 092 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 093 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 094 EPA 8270C 2-Mirlyl-4,6-ditriophene 117.110 095 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 095 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 096 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 097 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 098 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 098 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 099 EPA 8270C 3-Mirlyl-4,6-ditriophene 117.110 090 EPA 8270C 3-Mirlyl-4,6-ditriophe	117.110 072	EPA 8270C	Hexachloroethane
117.110	117.110 073	1-40	Hexachlorophene
117.110 075 EPA 8270C Indenci 1,2,3-d pyrane 117.110 077 EPA 8270C Isosafrole 117.110 078 EPA 8270C Isosafrole 117.110 079 EPA 8270C Albeity-Ad-drinitophane 117.110 079 EPA 8270C Albeity-Ad-drinitophane 117.110 080 EPA 8270C Albeity-Ad-drinitophane 117.110 081 EPA 8270C Albeity-Ad-drinitophane 117.110 082 EPA 8270C Albeity-Ad-drinitophane 117.110 083 EPA 8270C Albeity-Ad-drinitophane 117.110 084 EPA 8270C Albeity-Ad-drinitophane 117.110 085 EPA 8270C Albeity-Ad-drinitophane 117.110 085 EPA 8270C Albeity-Ad-drinitophane 117.110 086 EPA 8270C Albeity-Ad-drinitophane 117.110 087 EPA 8270C Albeity-Ad-drinitophane 117.110 087 EPA 8270C Albeity-Ad-drinitophane 117.110 088 EPA 8270C Albeity-Ad-drinitophane 117.110 089 EPA 8270C Albeity-Ad-drinitophane 117.110 080 EPA 8270C Albeity-Ad-drinitophane 117.110 091 EPA 8270C Albeity-Ad-drinitophane 117.110 094 EPA 8270C Albeity-Ad-drinitophane 117.110 095 EPA 8270C Albeity-Ad-drinitophane 117.110 096 EPA 8270C Albeity-Ad-drinitophane 117.110 097 EPA 8270C Albeity-Ad-drinitophane 117.110 098 EPA 8270C Albeity-Ad-drinitophane 117.110 090 EPA 8270C Albeity-Ad-drinitophane 117.110 091 EPA 8270C Albeity-Ad-drinitophane		1 all black and the last last last last last last last last	
117.110 076 EPA 8270C			
117.110 077 EPA 8270C Isosafrole I			
117.110 078 EPA 8270C 3-Methylcholanthrene 117.110 080 EPA 8270C 2-Methyl-4-6-dimprophenol 117.110 082 EPA 8270C 2-Methyl-4-6-dimprophenol 117.110 083 EPA 8270C 2-Methyl-4-6-dimprophenol 117.110 084 EPA 8270C 2-Methylanphthalene 117.110 085 EPA 8270C 2-Methyl-4-6-dimprophenol 117.110 086 EPA 8270C 2-Methyl-4-fonol 117.110 086 EPA 8270C 3-Methyl-4-fonol 117.110 087 EPA 8270C 3-Methyl-4-fonol 117.110 088 EPA 8270C 3-Methyl-4-fonol 117.110 088 EPA 8270C 1-Maphthyl-4-fonol 117.110 089 EPA 8270C 1-Maphthyl-4-fonol 117.110 089 EPA 8270C 1-Maphthyl-4-fonol 117.110 091 EPA 8270C 1-Maphthyl-4-fonol 117.110 091 EPA 8270C 2-Maphthyl-4-fonol 117.110 092 EPA 8270C 2-Maphthyl-4-fonol 117.110 093 EPA 8270C 2-Mitro-aniline 117.110 094 EPA 8270C 3-Mitro-aniline 117.110 095 EPA 8270C 3-Mitro-aniline 117.110 096 EPA 8270C 3-Mitro-aniline 117.110 096 EPA 8270C 3-Mitro-aniline 117.110 097 EPA 8270C 3-Mitro-aniline 117.110 098 EPA 8270C 3-Mitro-aniline 117.110 097 EPA 8270C 3-Mitro-aniline 117.110 098 EPA 8270C 3-Mitro-aniline 098 117.110 098 EPA 8270C 3-Mitro-aniline 098	117.110 077		
117.110 079 EPA 8270C 3-Methylcholanthrene 117.110 080 EPA 8270C 2-Methyl Mehanesufonato 117.110 081 EPA 8270C 3-Methyl Mehanesufonato 117.110 082 EPA 8270C 2-Methylphenol 117.110 083 EPA 8270C 2-Methylphenol 117.110 085 EPA 8270C 3-Methylphenol 117.110 086 EPA 8270C 3-Methylphenol 117.110 087 EPA 8270C 3-Methylphenol 117.110 088 EPA 8270C 3-Methylphenol 117.110 089 EPA 8270C 3-Methylphenol 117.110 089 EPA 8270C 3-Methylphenol 117.110 089 EPA 8270C 3-Methylphenol 117.110 090 EPA 8270C 3-Methylphenol 117.110 091 EPA 8270C 3-Methylphenol 117.110 091 EPA 8270C 3-Methylphenol 117.110 091 EPA 8270C 3-Methylphenol 117.110 092 EPA 8270C 3-Methylphenol 117.110 093 EPA 8270C 3-Methylphenol 117.110 094 EPA 8270C 3-Methylphenol 117.110 095 EPA 8270C 3-Methylphenol 117.110 096 EPA 8270C 3-Methylphenol 117.110 101 EPA 8270C 3-Methylphenol 117.110 102 EPA 8270C 3-Methylphenol 117.110 103 EPA 8270C 3-Methylphenol 117.110 104 EPA 8270C 3-Methylphenol 117.110 105 EPA 8270C 3-Methylphenol 117.110 106 EPA 8270C 3-Methylphenol 117.110 107 EPA 8270C 3-Methylphenol 117.110 108 EPA 8270C 3-Methylphenol 117.110 109 EPA 8270C 3-Methylphenol	117.110 078		Maleic Anhydride
117.110 080 EPA 8270C 2.Methyl-4.8-dintrophenol 117.110 082 EPA 8270C Methyl Methanesulfonate 117.110 084 EPA 8270C 2.Methylphenol 117.110 085 EPA 8270C 3.Methylphenol 117.110 086 EPA 8270C 4.Methylphenol 117.110 087 EPA 8270C Naphthalene 117.110 088 EPA 8270C 1.4-Naphthylamine 117.110 089 EPA 8270C 1.4-Naphthylamine 117.110 090 EPA 8270C Nitotine 117.110 091 EPA 8270C Nitotine 117.110 092 EPA 8270C Nitotine 117.110 093 EPA 8270C 3.Nitoraniline 117.110 094 EPA 8270C 3.Nitoraniline 117.110 094 EPA 8270C 4.Nitrophenol 117.110 095 EPA 8270C Nitroberzene 117.110 096 EPA 8270C Nitroberzene 117.110 099	117.110 079		
17.110	117.110 080		
117.110 084 EPA 8270C 2-Methylphenol 117.110 085 EPA 8270C 3-Methylphenol 117.110 086 EPA 8270C 4-Methylphenol 117.110 087 EPA 8270C Naphthalene 117.110 088 EPA 8270C 1-Naphthylamine 117.110 090 EPA 8270C 2-Naphthylamine 117.110 091 EPA 8270C Nicotine 117.110 092 EPA 8270C 3-Nitroaniline 117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 3-Nitroaniline 117.110 095 EPA 8270C 3-Nitroaniline 117.110 096 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 1-Nitrosodienthylamine 117.110 097 EPA 8270C N-nitrosodienthylamine 117.110 098 EPA 8270C N-nitrosodienthylamine 117.110 101 EPA 8270C N-nitrosodienthylamine 117.110	117.110 082		
117.110 085 EPA 8270C 3-Methylphenol 117.110 086 EPA 8270C 4-Methylphenol 117.110 087 EPA 8270C Naphthalene 117.110 088 EPA 8270C 1.4-Naphthoquinone 117.110 089 EPA 8270C 1-Naphthylamine 117.110 090 EPA 8270C Nicotine 117.110 091 EPA 8270C 2-Naphthylamine 117.110 092 EPA 8270C Nicotine 117.110 093 EPA 8270C 3-Nizoaniline 117.110 093 EPA 8270C 4-Nitroaniline 117.110 094 EPA 8270C Nitrobenzene 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C N-nitrosodi-n-butylamine 117.110 097 EPA 8270C N-nitrosodiethylamine 117.110 109 EPA 8270C N-nitrosodiethylamine 117.110 101 EPA 8270C N-nitrosodiethylamine 117.110 <	117.110 083	EPA 8270C	2-Methylnaphthalene
117.110 086 EPA 8270C 4-Methylphenol 117.110 087 EPA 8270C 1,4-Naphthoquinone 117.110 088 EPA 8270C 1,4-Naphthoquinone 117.110 090 EPA 8270C 2-Naphthylamine 117.110 091 EPA 8270C Nicotine 117.110 092 EPA 8270C Nicotine 117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 1-Nitrophenol 117.110 097 EPA 8270C 1-Nitrophenol 117.110 098 EPA 8270C N-nitrosodi-n-butylamine 117.110 09 EPA 8270C N-nitrosodi-n-butylamine 117.110 100 EPA 8270C N-nitrosodi-n-propylamine 117.110 101 EPA 8270C N-nitrosodi-n-propylamine 117.110 102 EPA 8270C N-nitrosomphylethylamine	117.110 084	EPA 8270C	2-Methylphenol
117.110	117.110 085	EPA 8270C	3-Methylphenol
117.110 088 EPA 8270C 1.A-Naphthoquinone 117.110 089 EPA 8270C 1-Naphthylamine 117.110 090 EPA 8270C Nicotine 117.110 091 EPA 8270C 2-Nitroaniline 117.110 092 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrophenol 117.110 095 EPA 8270C 1-Nitrophenol 117.110 097 EPA 8270C 4-Nitrophenol 117.110 098 EPA 8270C 4-Nitrophenol 117.110 097 EPA 8270C N-nitrosodiethylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodiphenylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 102 EPA 8270C N-nitrosodiphenylamine 117.110 103 EPA 8270C N-nitrosodiphenylamine	117.110 086	EPA 8270C	4-Methylphenol
117.110 089 EPA 8270C 1-Naphthylamine 117.110 090 EPA 8270C 2-Naphthylamine 117.110 091 EPA 8270C Nicotine 117.110 092 EPA 8270C 2-Nitroanlline 117.110 093 EPA 8270C 4-Nitroanlline 117.110 094 EPA 8270C Alitroanlline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 4-Nitrophenol 117.110 097 EPA 8270C 4-Nitrosodi-n-butylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodiethylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 102 EPA 8270C N-nitrosomethylethylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosomethylethylamine 117.110 105 EPA 8270C N-nitrosomorpholine <td>117.110 087</td> <td>EPA 8270C</td> <td>Naphthalene</td>	117.110 087	EPA 8270C	Naphthalene
117.110 090 EPA 8270C 2-Naphthylamine 117.110 091 EPA 8270C Nicotine 117.110 092 EPA 8270C 2-Nitroaniline 117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitrophene 117.110 095 EPA 8270C 1-Nitrophenol 117.110 096 EPA 8270C 4-Nitrophenol 117.110 097 EPA 8270C N-nitrosodien-butylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodienthylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 102 EPA 8270C N-nitrosomethylethylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosomethylethylamine 117.110 105 EPA 8270C N-nitrosomethylethylamine 117.110 106 EPA 8270C N-nitrosomethylethylam	117.110 088	EPA 8270C	1,4-Naphthoquinone
117.110 091 EPA 8270C Nicotine 117.110 092 EPA 8270C 2-Nitroaniline 117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 2-Nitrophenol 117.110 097 EPA 8270C N-nitrosodi-n-butylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodi-n-propylamine 117.110 101 EPA 8270C N-nitrosodi-n-propylamine 117.110 102 EPA 8270C N-nitrosodi-n-propylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.111 104 EPA 8270C N-nitrosomethylethylamine 117.110 105 EPA 8270C N-nitrosomethylethylamine 117.111 106 EPA 8270C N-nitrosomethylethylamine 117.110 107 EPA 8270C N-nit	117.110 089	EPA 8270C	1-Naphthylamine
117.110 092 EPA 8270C 2-Nitroaniline 117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 4-Nitrophenol 117.110 097 EPA 8270C N-nitrosodi-n-butylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodiethylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 102 EPA 8270C N-nitrosomethylethylamine 117.110 103 EPA 8270C N-nitrosomorpholine 117.110 104 EPA 8270C N-nitrosopyrrolidine 117.110 105 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C N-nitrosopyrrolidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachlorophenol	117.110 090	EPA 8270C	2-Naphthylamine
117.110 093 EPA 8270C 3-Nitroaniline 117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 2-Nitrophenol 117.110 097 EPA 8270C M-nitrosodi-n-butylamine 117.110 098 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodiethylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 102 EPA 8270C N-nitrosodiphenylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosomethylethylamine 117.111 105 EPA 8270C N-nitrosomethylethylamine 117.110 106 EPA 8270C N-nitrosomethylethylamine 117.111 106 EPA 8270C N-nitrosomethylethylamine 117.110 107 EPA 8270C N-nitrosomethylethylamine 117.111 108 EPA 8270C	117.110 091	EPA 8270C	Nicotine
117.110 094 EPA 8270C 4-Nitroaniline 117.110 095 EPA 8270C Nitrobenzene 117.110 096 EPA 8270C 2-Nitrophenol 117.110 097 EPA 8270C 4-Nitrophenol 117.110 098 EPA 8270C N-nitrosodi-n-butylamine 117.110 100 EPA 8270C N-nitrosodi-n-propylamine 117.110 101 EPA 8270C N-nitrosodi-n-propylamine 117.110 102 EPA 8270C N-nitrosodiphenylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosomethylethylamine 117.110 105 EPA 8270C N-nitrosomethylethylamine 117.110 106 EPA 8270C N-nitrosomethylethylamine 117.111 107 EPA 8270C N-nitrosomethylethylamine 117.110 108 EPA 8270C N-nitrosomethylethylamine 117.111 109 EPA 8270C N-nitrosomethylethylamine 117.110 109 EPA	117.110 092	EPA 8270C	2-Nitroaniline
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117.110 099 EPA 8270C N-nitrosodiethylamine 117.110 100 EPA 8270C N-nitrosodi-n-propylamine 117.110 101 EPA 8270C N-nitrosodiphenylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosomorpholine 117.110 105 EPA 8270C N-nitrosopiperidine 117.110 106 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C 5-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 097	EPA 8270C	4-Nitrophenol
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117.110 101 EPA 8270C N-nitrosodi-n-propylamine 117.110 102 EPA 8270C N-nitrosomethylethylamine 117.110 103 EPA 8270C N-nitrosomorpholine 117.110 104 EPA 8270C N-nitrosopiperidine 117.110 105 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C S-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 099	EPA 8270C	N-nitrosodiethylamine
117.110 102 EPA 8270C N-nitrosodiphenylamine 117.110 103 EPA 8270C N-nitrosomethylethylamine 117.110 104 EPA 8270C N-nitrosopiperidine 117.110 105 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C S-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 100	EPA 8270C	N-nitrosodimethylamine
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117.110 104 EPA 8270C N-nitrosomorpholine 117.110 105 EPA 8270C N-nitrosopyrrolidine 117.110 106 EPA 8270C S-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 102	EPA 8270C	N-nitrosodiphenylamine
117.110 105 EPA 8270C N-nitrosopiperidine 117.110 106 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C 5-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 103	EPA 8270C	N-nitrosomethylethylamine
117.110 106 EPA 8270C N-nitrosopyrrolidine 117.110 107 EPA 8270C 5-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 104	EPA 8270C	N-nitrosomorpholine
117.110 107 EPA 8270C 5-Nitro-o-toluidine 117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 105	EPA 8270C	N-nitrosopiperidine
117.110 108 EPA 8270C Pentachlorobenzene 117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 106	EPA 8270C	N-nitrosopyrrolidine
117.110 109 EPA 8270C Pentachloronitrobenzene 117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 107	EPA 8270C	5-Nitro-o-toluidine
117.110 110 EPA 8270C Pentachlorophenol 117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 108	EPA 8270C	Pentachlorobenzene
117.110 111 EPA 8270C Phenacetin 117.110 112 EPA 8270C Phenanthrene	117.110 109	EPA 8270C	Pentachloronitrobenzene
117.110 112 EPA 8270C Phenanthrene	117.110 110	EPA 8270C	Pentachlorophenol
	117.110 111		Phenacetin
117.110 113 EPA 8270C Phenol	117.110 112	EPA 8270C	Phenanthrene
	117.110 113	EPA 8270C	Phenol

117.110 116 EPA 8270C	2-Picoline
117.110 119 EPA 8270C	Pyrene
117.110 120 EPA 8270C	Pyridine
117.110 122 EPA 8270C	Safrole
117.110 124 EPA 8270C	1,2,4,5-Tetrachlorobenzene
117.110 125 EPA 8270C	2,3,4,6-Tetrachlorophenol
117.110 128 EPA 8270C	o-Toluidine
117.110 129 EPA 8270C	1,2,4-Trichlorobenzene
117.110 130 EPA 8270C	2,4,5-Trichlorophenol
117.110 131 EPA 8270C	2,4,6-Trichlorophenol
117.110 132 EPA 8270C	1,3,5-Trinitrobenzene
117.111 025 EPA 8270C	Dimethoate
117.111 026 EPA 8270C	Dinoseb
117.111 036 EPA 8270C	Famphur
117.111 039 EPA 8270C	Isodrin
117.111 040 EPA 8270C	Kepone
117.111 054 EPA 8270C	Parathion Ethyl
117.111 055 EPA 8270C	Parathion Methyl
117.111 056 EPA 8270C	Phorate
117.111 058 EPA 8270C	Sulfotepp
117.111 061 EPA 8270C	O,O,O-triethyl Phosphorothioate
117.140 001 EPA 8310	Acenaphthene
117.140 002 EPA 8310	Acenaphthylene
117.140 003 EPA 8310	Anthracene
117.140 004 EPA 8310	Benz(a)anthracene
117.140 005 EPA 8310	Benzo(a)pyrene
117.140 006 EPA 8310	Benzo(b)fluoranthene
117.140 007 EPA 8310	Benzo(k)fluoranthene
117.140 008 EPA 8310	Benzo(g,h,i)perylene
117.140 009 EPA 8310	Chrysene
117.140 010 EPA 8310	Dibenz(a,h)anthracene
117.140 011 EPA 8310	Fluoranthene
117.140 012 EPA 8310	Fluorene
117.140 013 EPA 8310	Indeno(1,2,3-c,d)pyrene
117.140 014 EPA 8310	Naphthalene
117.140 015 EPA 8310	Phenanthrene
117.140 016 EPA 8310	Pyrene
117.170 001 EPA 8330	4-Amino-2,6-dinitrotoluene
117.170 002 EPA 8330	2-Amino-4,6-dinitrotoluene
117.170 003 EPA 8330	1,3-Dinitrobenzene
117.170 004 EPA 8330	2,4-Dinitrotoluene

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117.170 005	EPA 8330	2,6-Dinitrotoluene
117.170 005	EPA 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
117.170 000		Methyl-2,4,6-trinitrophenylnitramine
117.170 007	EPA 8330	Nitrobenzene
117.170 000	EPA 8330	2-Nitrotoluene
117.170 010	EPA 8330	3-Nitrotoluene
117.170 010	EPA 8330	4-Nitrotoluene
117.170 011	EPA 8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
117.170 012	EPA 8330	1,3,5-Trinitrobenzene
117.170 013	EPA 8330	2,4,6-Trinitrotoluene
117.190 001	EPA 8332	Nitroglycerine
117.210 001	EPA 8081A	Aldrin
117.210 001	EPA 8081A	a-BHC
117.210 002	EPA 8081A	b-BHC
117.210 003	EPA 8081A	d-BHC
117.210 004	EPA 8081A	g-BHC (Lindane)
117.210 003	EPA 8081A	a-Chlordane
117.210 007	EPA 8081A	g-Chlordane
117.210 000	EPA 8081A	Chlordane (tech.)
117.210 009	EPA 8081A	Chlorobenzilate
117.210 010	EPA 8081A	Chloroneb
117.210 011	EPA 8081A	Chlorothalonil
117.210 013	EPA 8081A	4,4'-DDD
117.210 013	EPA 8081A	4,4'-DDE
117.210 015	EPA 8081A	4,4'-DDT
117,210 016	EPA 8081A	Diallate
117.210 020	EPA 8081A	Dieldrin
117.210 021	EPA 8081A	Endosulfan I
117.210 022	EPA 8081A	Endosulfan II
117.210 023	EPA 8081A	Endosulfan Sulfate
117.210 024	EPA 8081A	Endrin
117.210 025	EPA 8081A	- Endrin Aldehyde
117.210 026	EPA 8081A	Endrin Ketone
117.210 027	EPA 8081A	Heptachlor
117.210 028	EPA 8081A	Heptachlor Epoxide
117.210 029	EPA 8081A	Hexachlorobenzene
117.210 033	EPA 8081A	Methoxychlor
117.210 039	EPA 8081A	Toxaphene
117.220 001	EPA 8082	PCB-1016
117.220 002	EPA 8082	PCB-1221
117.220 003	EPA 8082	PCB-1232

117.220 004	EPA 8082	PCB-1242
117.220 004	EPA 8082	PCB-1248
117.220 006	EPA 8082	PCB-1254
117.220 007	EPA 8082	PCB-1260
117.220 007	EPA 8082	2-Chlorobiphenyl
117.220 000	EPA 8082	2,3-Dichlorobiphenyl
117.220 000	EPA 8082	2,2',5-Trichlorobiphenyl
117.220 010	EPA 8082	2,4',5-Trichlorobiphenyl
117.220 012	EPA 8082	2,2',3,5'-Tetrachlorobiphenyl
117.220 012	EPA 8082	2,2',5,5'-Tetrachlorobiphenyl
117.220 014	EPA 8082	2,3',4,4'-Tetrachlorobiphenyl
117.220 015	EPA 8082	2,2',3,4,5'-Pentachlorobiphenyl
117.220 016	EPA 8082	2,2',4,5,5'-Pentachlorobiphenyl
117.220 017	EPA 8082	2,3,3',4',6-Pentachlorobiphenyl
117.220 018	EPA 8082	2,2',3,4,4',5'-Hexachlorobiphenyl
117.220 019	EPA 8082	2,2',3,4,5,5'-Hexachlorobiphenyl
117.220 020	EPA 8082	2,2',3,5,5',6-Hexachlorobiphenyl
117.220 021	EPA 8082	2,2',4,4',5,5'-Hexachlorobiphenyl
117.220 022	EPA 8082	2,2',3,3',4,4',5-Heptachlorobiphenyl
117.220 023	EPA 8082	2,2',3,4,4',5,5'-Heptachlorobiphenyl
117.220 024	EPA 8082	2,2',3,4,4',5',6-Heptachlorobiphenyl
117.220 025	EPA 8082	2,2',3,4',5,5',6-Heptachlorobiphenyl
117.220 026	EPA 8082	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
117.240 001	EPA 8141A	Atrazine
117.240 002	EPA 8141A	Azinphos Methyl
117.240 004	EPA 8141A	Chlorfenvinphos
117.240 005	EPA 8141A	Chlorpyrifos
117.240 006	EPA 8141A	Chlorpyrifos Methyl
117.240 007	EPA 8141A	Demeton-O
117.240 008	EPA 8141A	Demeton-S
117.240 009	EPA 8141A	Diazinon
117.240 010	EPA 8141A	Dimethoate
117.240 012	EPA 8141A	EPN
117.240 013	EPA 8141A	Ethion
117.240 014	EPA 8141A	Famphur
117.240 015	EPA 8141A	Malathion
117.240 016	EPA 8141A	Mevinphos
117.240 017	EPA 8141A	Naled
117.240 018	EPA 8141A	Parathion Ethyl
117.240 019	EPA 8141A	Parathion Methyl
117.240 020	EPA 8141A	Phorate

117.240	022	EPA 8141A	Ronnel	
117.240	024	EPA 8141A	Sulfotepp	
117.240	026	EPA 8141A	Thionazin	
117.250	001	EPA 8151A	2,4-D	
117.250	002	EPA 8151A	2,4-DB	
117.250	003	EPA 8151A	2,4,5-T	
117.250	004	EPA 8151A	2,4,5-TP	
117.250	006	EPA 8151A	Dalapon	
117.250	007	EPA 8151A	Dichlorprop	
117.250	800	EPA 8151A	Dinoseb	
117.250	009	EPA 8151A	MCPA	
117.250	010	EPA 8151A	MCPP	
117.250	011	EPA 8151A	4-Nitrophenol	
117.250	012	EPA 8151A	Pentachlorophenol	
117.250	013	EPA 8151A	Picloram	
117.250	014	EPA 8151A	Dicamba	
117.250	015	EPA 8151A	3,5-Dichlorobenzoic Acid	
117.250	016	EPA 8151A	Acifluorfen	
117.250	017	EPA 8151A	Bentazon	
117.250	018	EPA 8151A	Chloramben	
117.250	019	EPA 8151A	DCPA	
120 - Physical Properties of Hazardous Waste				
120.010	001	EPA 1010	Ignitability	
120.040	001	Section 7.3 SW-846	Reactive Cyanide	
120.050	001	Section 7.3 SW-846	Reactive Sulfide	
120.070	001	EPA 9040B	Corrosivity - pH Determination	
120.080	001	EPA 9045C	Corrosivity - pH Determination	



Attachment B: Responses to Comments on Laboratory Chemistry and Quality Control Data

CH2M HILL has reviewed the Peer Review comments on the Hinkley Groundwater Background Study (CH2M HILL, 2007) related to laboratory methods and quality control data prepared by Dr. Stuart Nagourney of the College of New Jersey on behalf of the Regional Water Quality Control Board, Lahontan Region (Water Board), dated October 14, 2011. Based on this review, the quality of the laboratory analyses was determined to be appropriate and to meet all of the requirements of the USEPA methods employed.

Detailed Response to Comments

The issues raised by Dr. Nagourney fall into three general categories: method calibration, establishment of reporting limits (RLs) and method detection limits (MDLs), and quality control (QC) check procedures. Dr. Nagourney posed six questions to the Truesdail Laboratories, Inc. (TLI) and EMAX Laboratories (EMAX). Based on the responses to these questions, Dr. Nagourney provided additional questions and comments regarding QC procedures, including questions on method calibration, RLs, and MDLs. Presented below are responses to each of the additional questions and comments provided by Dr. Nagourney.

1) What calibration ranges were used for Methods 6010B, 6020A and 7199?

Comment on information provided by TLI: It is unclear from the response if the low level calibration ranges cited in the response for Methods 6010B and 6020A were used for the analyses in this study. If not, the data for this study for total chromium (Cr(T)) would be questionable.

Response:

- Method 6010B was not used by either lab for the Hinkley Groundwater Background Study.
- For Method 6020A, the laboratories used the following calibration ranges:
 - TLI used 0.2 micrograms per liter (μg/L) to an upper range of 100, 200 or 500 μg/L.
 - EMAX used 10 μg/L to an upper range of 100 μg/L.
- For Method 7199, the laboratories used the following calibration ranges:
 - TLI used a calibration range of 0.2 to 50 μ g/L. As noted here, TLI did use a low concentration standard, 0.2 μ g/L, for the low end of the calibration range.
 - EMAX used 0.2 μg/L to an upper range of 5.0 μg/L.
- 2) For Method 6020A, what was the value of the Contract Required Quantitation Limit Check Standard (CRI) and the method control limits?

Comment on information provided by TLI: TLI admitted in their response that they failed to perform this quality assurance as required by the method during the time that data for this study were obtained.

Response:

• CRI is not a required criterion of 6020A, and as such the failure of TLI to perform this check did not compromise the quality of the data obtained.

- Regarding method control limits, the PG&E Program Quality Assurance Project Plan (QAPP) (CH2M HILL, 2008) requires the following:
 - Laboratory Control Sample (LCS) of 85 115% (method requires 80 120%). An LCS is a reagent water blank fortified with the compound(s) of interest that is processed through the entire method process just like a sample.
 - Matrix Spike/Matrix Spike Duplicate (MS/MSD) of 75 125%
 - The relative percent difference (RPD) or precision between the MS and MSD or sample and sample duplicate 20% RPD
 - Post spike and serial dilution are also required per the method requirements.
- 3) Were reporting limit (RL) check samples analyzed for Methods 7199 and 6010B? If so what are the control limits and what were the actual recoveries?

Comment on information provided by TLI: TLI admitted in their response that they failed to analyze a RL check sample during the time that data for this study were obtained.

Response:

- 6010B was not used for the Hinkley Groundwater Background Study.
- RL checks are not required by either method, and as such the failure of TLI to perform this check did not compromise the quality of the data obtained.
- 4) How were RLs established for Methods 6010B, 6020A and 7199? What is the relationship between the method detection limit (MDL) & RL for each method?

Comment on information provided by TLI: TLI's response of varying criteria for a quantitative relationship between the MDL and RL is too vague to be acceptable.

Response:

- MDL studies are performed annually and are required to meet the 40 CFR Part 136B criteria.
- The California Environmental Laboratory Accreditation Program (ELAP) states the RL must be defensible, be greater than the MDL, and will be specified by the end user of the data.
- The RL is defined by the CDPH as the concentration at which an analyte can be detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision. The CDPH defined reasonable as ± 20% accuracy and 20% RSD for replicate determinations. The acceptable ranges depend somewhat on the analytical methodology used. The CDPH states that for samples that do not pose a particular matrix problem, the RL is typically about three to five times higher than the MDL.
- The RLs used by the labs for the Hinkley Groundwater Background Study were derived from reporting limits specified in the June 29, 2001 Cleanup and Abatement Order (CAO) (Water Board, 2001), also specified in the QAPP (subsequent Waste Discharge Requirements [WDRs] such as R6V-2004-0034 actually specified a higher RL of 1 μg/L for Cr(VI) and 5 μg/L Cr(T)).
- In accordance with the project QAPP, an RL level low standard is used in the calibration curve.
- No data are reported below the RL. (Non-detects are reported at the RL.)

5) What standard reference material (SRM) was used for QC for 7199 as per Section 5.4? This data was apparently not reported.

Comment on information provided by TLI: The use of a mid-range check sample is not acceptable as a QC material as per the criteria for quality control specified in Method 7199. This would make the data for this study for Cr(VI) questionable.

Response:

- Section 5.4 of the method requires a QCS (quality control sample) defined as "a midrange standard, prepared from an independent commercial source" (i.e., a secondary source, separate from the initial calibration standards) be used to verify the instruments performance. It does not require Standard Reference Material (SRM), only a standard from a secondary source as defined by the QCS. The procedures used were in keeping with the method and the data obtained is therefore not questionable.
 - TLI uses a second source material for both their LCS and the second source midrange calibration check standard.
 - EMAX uses a second source for their LCSs.
- Both laboratories report LCS data in the lab reports.
- 6) Why were the spiking levels for both Cr(T) and Cr(VI) analyses much higher than the expected sample concentrations for all analytical methods?

Comment on information provided by EMAX and TLI: This response was not satisfactory. The laboratory should have chosen the concentration level of matrix spikes for both Cr(T) and Cr(VI) to closer to the actual sample levels (usually a multiple of 3-5 the expected value is applied). The choice of much higher spiking levels means that the calculated recoveries have little value in assessing the quality of the actual sample concentrations and the impact to those results from possible matrix interferences.

Response:

- Method 6020A specifics "MS/MSD samples should be spiked at the same level, and
 with the same spiking material, as the corresponding laboratory control sample that is at
 the project-specific action level or, when lacking project-specific action levels, at
 approximately mid-point of the linear dynamic range." No project specific action level
 was specified for the background study; therefore, the labs followed the spiking levels
 specified by the method.
- Both laboratories used 1.0 μg/L as the spike concentration for Method 7199. The concentration of the matrix spike was five times the reporting level and applicable to the majority of sample concentrations determined over the study.

In addition to the initial six questions, Dr. Nagourney noted six additional concerns with analytical data in comments. The following are the concerns and the responses to those concerns.

1. **Comment:** No criteria were provided from either laboratory as to the criteria for data assigned "U" or "J" flags.

Response: Laboratory analytical data was reviewed by CH2M HILL's project chemists to assess data quality and to identify deviations from analytical requirements. The flags provided in the Groundwater Background Study were assigned by the project chemists and the criteria associated to a specific result/flag are listed in Appendix F (Data Requiring Validation Flags).

2. **Comment**: "unusually high percentage of samples failed the quality control criteria for the Continuing Calibration Verification (CCV)."

Response: During the first Hinkley Background Study sampling event, (January/February 2006) all Method SW 7199 sample analyses were performed by TLI and the CCV recoveries for all analyses were within the method criteria of 90 – 110% recovery. For the three subsequent sampling events, all Method SW7199 sample analyses were performed by EMAX Laboratory (EMAX). Of the 129 sample analyses performed by EMAX, 31 (26 samples, 5 field duplicates) or 24 percent had one or more of the bracketing CCVs with recoveries that were outside the method criteria. CCV recoveries for the out of control sample analyses ranged from a low of 72 percent to a high of 123 percent with 19 results biased low and 12 biased high. In accordance with the PG&E program Quality Assurance Program Plan (QAPP) (CH2M HILL, 2008) that cites USEPA National Functional Guidelines for Inorganic Data Review (2002), the range of the out of control CCV recoveries was not significant enough to warrant data rejection, but did require data qualification by applying "J/UJ" flags to out of control results. Therefore, the results were determined to be of sufficient quality to be used for purposes of the background study.

3. **Comment:** How were samples chosen for matrix spiking (was this procedure randomized so as to not bias the results?)

Response: The matrix spikes were randomly selected by the laboratory.

4. **Comment:** The work plan specifies the use of method 6010 for the analysis of Cr(T); Method 6020A was used instead. This may impact the ability to quantify for Cr(T) at low concentration levels since the RL for Method 6020A is much lower than that for Method 6010.

Response: Both methods use an Inductively Coupled Plasma (ICP) however Method 6020A pairs that with a mass spectrometer (measuring mass weight) which allows for lower concentration reporting for most metals. Method SW6020A met the RL objectives for the project.

5. **Comment**: Some data for Cr(VI) in this study were reported by USEPA determinative method 218.6, other data was reported by Method 7196A and still other data was reported by Method 7199. These methods all have different sensitivities and different capabilities to report Cr(VI) without analytical interferences. Why were different methods used to measure Cr(VI)?

Response: Only Method 7199 was used during the Hinkley Groundwater Background Study to analyze and report standard Cr(VI) results. There is no reference in the background study to either Method 218.6 or 7196.

6. **Comment**: The authors of the report chose to use a method from the USGS to attempt to define specific Cr species present in samples. This method is not certified by the State or NELAP. Information that was supplied suggests that this USGS method has only been applied to speciation of arsenic. USEPA Method 6800, Elemental and Speciated Isotope Dilution Mass Spectrometry allows the identification of individual Cr species... USEPA Method 6800 is certified by State and NELAP. Why was Method 6800 not used for this application?

Response: Method 6800 was posted in February 2007, and the Hinkley Groundwater Background Study samples were collected quarterly from January 2006 to November 2006 and the report was submitted to the Water Board in Feb 2007 and therefore pre-date promulgation of Method 6800.