

# Superior Analytical Laboratories, Inc.

Team Quality Control

Fax To: Scott Fax # 568-3706  
 Company Name: \_\_\_\_\_ Date 5/24/91  
 Job #: \_\_\_\_\_ Client Project #: \_\_\_\_\_

From: Superior Analytical  
 835 Arnold Dr. Ste 106  
 Martinez, CA 94553  
 (415) 229-0166  
 fax (415) 229-0916

Sender: Robert Watson  
 Total # of pages including cover 5  
 Comments: \_\_\_\_\_

Please FAX your Name, phone numbers  
and company name, so that I can  
write up that analysis scheme.

Thank you for your business. If we can be of any further assistance, please do not hesitate to call.

## SUPERIOR ANALYTICAL LABORATORIES, INC.

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June 3, 1991

Dear Scott

I have not received your fax with your full name, phone, and company name last week so that we respond to your questions regarding sampling and extraction in the field in more details than as follows.

Superior Analytical Laboratories, Inc. position on extraction in the field is that technique would lead to errors that would make it impossible for the laboratory to provide legally defensible and quality data to the client. Superior would have no control over the extraction procedures and would only be able to ensure quality of analyses.

Please call me if you have any further questions.

Sincerely,

*Robert Watson*  
Robert Watson  
QA Officer

Environmental Analytical Services  
 325 Arnold Drive, Suite 114  
 Martinez, CA 94553

PHONE: (415)229-1512

LABORATORY CATEGORY: Commercial  
 CERTIFICATE NUMBER: 319

ORGANIC CHEMICAL TESTING

METHOD NUMBER (DATE CERTIFIED)

(Y = CERTIFIED; N = NOT CERTIFIED)

1.1	Halogenated Volatile Organics		
1.2	Non-Halogenated Volatile Organics		
1.3	Aromatic Volatile Organics	8010(02-19-91)	Y
1.4	Acrolein, Acrylonitrile, Acetonitrile		N
1.5	Phenols	8020(07-06-89)	Y
1.6	Phthalate Esters		N
1.7	Organochlorine Pesticides		N
1.8	Polychlorinated Biphenyls (PCBs)		N
1.9	Nitroaromatics and Cyclic Ketones	8080(03-10-89)	Y
1.10	Polynuclear Aromatic Hydrocarbons		N
1.11	Chlorinated Hydrocarbons		N
1.12	Organophosphorus Pesticides		N
1.13	Chlorinated Herbicides		N
1.14	Carbonates		N
1.15	GC/MS Method for Volatile Organics		N
1.16	GC/MS Method for Semivolatile Organics		N

INORGANIC CHEMICAL TESTING

METHOD NUMBER (DATE CERTIFIED)

(Y = CERTIFIED; N = NOT CERTIFIED)

2.1	Antimony		
2.2	Arsenic	7040(06-27-89)	Y
2.3	Barium		Y
2.4	Beryllium		N
2.5	Cadmium		N
2.6	Chromium(VI)	7130(06-27-89)	Y
2.7	Chromium(total)		N
2.8	Cobalt	7190(06-27-89)	Y
2.9	Copper	7200(06-27-89)	Y
2.10	Lead	7210(06-27-89)	Y
2.11	Mercury	7420(06-27-89)	Y
2.12	Manganese		N
2.13	Nickel	7520(06-27-89)	Y
2.14	Vanadium		N
2.15	Silver	7760(06-27-89)	Y
2.16	Thallium	7840(06-27-89)	Y
2.17	Vanadium	7840(06-27-89)	Y
2.18	Zinc		Y
2.19	Cyanide	7950(06-27-89)	Y
2.20	Fluoride		N
2.21	Sulfide		N

OTHER

3.0	California Waste Extraction Test		
3.1	Physical Property Testing	(02-19-91)	Y
3.2	Aquatic Toxicity Testing		N
3.3	Bulk Asbestos Testing		N
3.4	Total Organic Lead		N
3.5	Total Petroleum Hydrocarbons	(09-10-89)	Y
		(03-10-89)	Y

## ENVIRONMENTAL LABORATORY ACCREDITATION/REGISTRATION

## List of Approved Fields of Testing and Analytes

Superior Analytical Laboratory  
1555 Burke, Unit I  
San Francisco, CA 94124

PHONE: (415) 647-2001  
COUNTY: San Francisco

LABORATORY CATEGORY: Commercial  
CERTIFICATE NUMBER: 1332

Y = CERTIFIED; N = NOT CERTIFIED

1.0	Microbiology of Drinking Water and Wastewater	(-----)
1.1	Total Coliforms by Multiple Tube Fermentation	-----N
1.2	Fecal Coliforms by Multiple Tube Fermentation	-----N
1.3	Total coliforms by Membrane Filter	-----N
1.4	Fecal coliforms by Membrane Filter	-----N
1.5	Heterotrophic Plate Count	-----N
2.0	Inorganic Chemistry and Physical Properties of Drinking Water excluding Toxic Chemical Elements	(-----)
2.1	Alkalinity	-----N
2.2	Calcium	-----N
2.3	Chloride	-----N
2.4	Corrosivity	-----N
2.5	Fluoride	-----N
2.6	Hardness	-----N
2.7	Magnesium	-----N
2.8	MBAS	-----N
2.9	Nitrate	-----N
2.10	Nitrite	-----N
2.11	Sodium	-----N
2.12	Sulfate	-----N
2.13	Total Filterable residue and Conductivity	-----N
3.0	Analysis of Toxic Chemical Elements in Drinking Water	(-----)
3.1	Arsenic	-----N
3.2	Barium	-----N
3.3	Cadmium	-----N
3.4	Chromium, total	-----N
3.5	Copper	-----N
3.6	Iron	-----N
3.7	Lead	-----N
3.8	Manganese	-----N
3.9	Mercury	-----N
3.10	Selenium	-----N
3.11	Silver	-----N
3.12	Zinc	-----N
4.0	Organic Chemistry of Drinking Water (measurement by GC/MS combination)	(-----)
4.1	Volatiles Organics	-----N
4.2	Trihalomethanes	-----N
4.3	Acid and Base/Neutral Compounds	-----N
5.0	Organic Chemistry of Drinking Water (excluding measurements by GC/MS combination)	(-----)
5.1	Total Trihalomethanes	-----N
5.2	Chlorinated pesticides	-----N
5.3	Chlorophenoxy herbicides	-----N
5.4	Halogenated Volatiles	-----N
5.5	Aromatic Volatiles	-----N
5.6	EDB and DBCP	-----N
5.7	Polychlorinated Biphenyls	-----N
5.8	Carbamates	-----N
5.9	Nitrogen/Phosphorus Pesticides	-----N
6.0	Radiochemistry	(-----)
6.1	Gross alpha and beta and counting error	-----N
6.2	Total Radium	-----N
6.3	Radium 226	-----N
6.4	Uranium	-----N
6.5	Radon 222	-----N
6.6	Radioactive Cesium	-----N
6.7	Iodine 131	-----N
6.8	Radioactive Strontium	-----N
6.9	Tritium	-----N
6.10	Gamma emitting isotopes	-----N
6.11	Gross Alpha by Co-precipitation	-----N
7.0	Shellfish Sanitation	(-----)
7.1	Shellfish meat Microbiology	-----N
7.2	Paralytic Shellfish Poison	-----N
8.0	Aquatic Toxicity Bioassays	(-----)
8.1	All Fresh Water: Static, Static/Renewal and Continuous Flow Bioassays; and Estuarine/Marine: Static, Static/Renewal, and Continuous Flow Bioassays	-----N
8.2	Hazardous wastes Section 66696 (a) (4)	-----N
9.0	Physical Properties Testing of Hazardous Waste	(12-21-88)
9.1	Ignitability (Flashpoint determination Section 66702)	-----N

9.2	Corrosivity - pH determination		
9.3	Corrosivity - Corrosivity towards steel (Section 66700)		
9.4	Reactivity (Section 66705)		
10.0	Inorganic Chemistry and Toxic Chemical Elements of Hazardous Waste		
10.1	Antimony		N
10.2	Arsenic		N
10.3	Barium		N
10.4	Beryllium		N
10.5	Cadmium		N
10.6	Chromium, total		N
10.7	Cobalt		N
10.8	Copper		N
10.9	Lead		N
10.10	Mercury		N
10.11	Molybdenum		N
10.12	Nickel		N
10.13	Selenium		N
10.14	Silver		N
10.15	Thallium		N
10.16	Vanadium		N
10.17	Zinc		N
10.18	Chromium (VI)		N
10.19	Cyanide		N
10.20	Fluoride		N
10.21	Sulfide		N
10.22	Total Organic Lead		N
11.0	Extraction Tests of Hazardous Waste		
11.1	Section 66700		
12.0	Organic Chemistry of Hazardous Waste (measurement by GC/MS combination)		
12.1	Volatile compounds		
12.2	Semivolatile compounds	8240(06-20-89)	Y
13.0	Organic Chemistry of Hazardous Waste (excluding measurements by GC/MS combination)		
13.1	Halogenated Volatiles		
13.2	Non-Halogenated Volatiles	8010(08-09-88)	Y
13.3	Aromatic Volatiles		N
13.4	Acrolein, Acrylonitrile, Acetonitrile	8020(01-04-88)	Y
13.5	Phenols		N
13.6	Phthalate Esters		N
13.7	Organochlorine Pesticides		N
13.8	Polychlorinated Biphenyls (PCBs)	8080(12-21-86)	Y
13.9	Nitroaromatics and Cyclic Ketones	8080(01-04-89)	Y
13.10	Polynuclear Aromatic Hydrocarbons		N
13.11	Chlorinated Hydrocarbons		N
13.12	Organophosphorus Pesticides		N
13.13	Chlorinated Herbicides		N
13.14	Carbamates		N
13.15	Total Petroleum Hydrocarbons	(06-10-88)	Y
14.0	Bulk Asbestos Analysis		
14.1	Section 66599 (1% or greater asbestos concentrations)		
15.0	Substances Regulated Under the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) and Not Included in Other Listed Groups.		

FIELDS OF TESTING AND ANALYTES (continued)

Page

16.0 Wastewater Inorganic Chemistry, Nutrients and Demand -----	(-----)
16.1 Acidity -----	N
16.2 Alkalinity -----	N
16.3 Ammonia -----	N
16.4 Biochemical Oxygen Demand -----	N
16.5 Boron -----	N
16.6 Bromide -----	N
16.7 Calcium -----	N
16.8 CBOD -----	N
16.9 Chemical Oxygen Demand -----	N
16.10 Chloride -----	N
16.11 Chlorine Residual, total -----	N
16.12 Cyanide -----	N
16.13 Cyanide amenable to Chlorination -----	N
16.14 Fluoride -----	N
16.15 Hardness -----	N
16.16 Kjeldahl Nitrogen -----	N
16.17 Magnesium -----	N
16.18 Nitrate -----	N
16.19 Nitrite -----	N
16.20 Oil and Grease -----	N
16.21 Organic Carbon -----	N
16.22 Oxygen, dissolved -----	N
16.23 pH -----	N
16.24 Phenols -----	N
16.25 Phosphate, ortho -----	N
16.26 Phosphorus, total -----	N
16.27 Potassium -----	N
16.28 Residue, Total -----	N
16.29 Residue, Filterable (TDS) -----	N
16.30 Residue, Nonfilterable (TSS) -----	N
16.31 Residue, Settleable (SS) -----	N
16.32 Residue, Volatile -----	N
16.33 Silica -----	N
16.34 Sodium -----	N
16.35 Specific Conductance -----	N
16.36 Sulfate -----	N
16.37 Sulfide (includes total and soluble) -----	N
16.38 Sulfite -----	N
16.39 Surfactants (MBAS) -----	N
16.40 Tannin and Lignin -----	N
16.41 Turbidity -----	N
17.0 Toxic Chemical Elements in Wastewater -----	(-----)
17.1 Aluminum -----	N
17.2 Antimony -----	N
17.3 Arsenic -----	N
17.4 Barium -----	N
17.5 Beryllium -----	N
17.6 Cadmium -----	N
17.7 Chromium (VI) -----	N
17.8 Chromium, total -----	N
17.9 Cobalt -----	N
17.10 Copper -----	N
17.11 Gold -----	N
17.12 Iridium -----	N
17.13 Iron -----	N
17.14 Lead -----	N
17.15 Manganese -----	N
17.16 Mercury -----	N
17.17 Molybdenum -----	N
17.18 Nickel -----	N
17.19 Osmium -----	N
17.20 Palladium -----	N
17.21 Platinum -----	N
17.22 Rhodium -----	N
17.23 Ruthenium -----	N
17.24 Selenium -----	N
17.25 Silver -----	N
17.26 Strontium -----	N
17.27 Thallium -----	N
17.28 Tin -----	N
17.29 Titanium -----	N
17.30 Vanadium -----	N
17.31 Zinc -----	N
18.0 Organic Chemistry of Wastewater (measurements by GC/MS combination) -----	(09-25-80)
18.1 Volatile Organics -----	Y
18.2 Acid and Base/Neutral compounds -----	Y
19.0 Organic Chemistry of Wastewater (excluding measurements by GC/MS combination) -----	(09-25-80)
19.1 Halogenated Volatiles -----	Y
19.2 Aromatic Volatiles -----	Y
19.3 Acrolein, Acrylonitrile, Acetonitrile -----	N
19.4 Phenols -----	Y
19.5 Benzidine -----	N
19.6 Phthalate Esters -----	N
19.7 Nitrosamines -----	N
19.8 Organochlorine Pesticides -----	Y
19.9 Polychlorinated Biphenyls -----	Y
19.10 Nitroaromatics and Cyclic Ketones -----	N
19.11 Polynuclear Aromatics -----	Y
19.12 Haloethers -----	N
19.13 Carbonates -----	N

This laboratory is also certified for additional hazardous material test categories under Certificate No. \_\_\_\_\_

This laboratory is also certified for additional drinking water test categories under Certificate No. \_\_\_\_\_