56

EPA Region 10 Laboratory **Analyses Required**

PRIORITY POLLUTANTS - ORGANICS

Project Name: Nudelman + Sons Project Code: 000-054B Account Code: ~~4AFLL4A~~ AFLL3A

Matrix Codes *(circle one only)*
- 10 Water - Total
- 11 Water - Dissolved
- 17 Liquid for TCLP
- 40 Sediment/Soil
- 45 Semi-Solid/Sludge
- 47 Sediment for TCLP
- 70 Tissue
- 80 Oil/Solvent
- 00 Other - see reverse

Sample Numbers														
~~9424456~~ 9424456	9424456	9424456	9424456	9424456										
80	40	40	40	40										

Enter Matrix Code from above if other than the **one** circled >

Check the Work Group ***(see reverse for a list of the more routine WG parameters).*** **List any additional specific organics in the space provided, and then check off WG 60 for the analysis** ***(be sure to only request organics that are identified in the sampling and analysis plan).***

																Analy/Comp Init/Date
GC/MS Organics																
51 Volatile Organics — VOA																
62 Base/Neutrals/Acids — BNA																
53 Trihalomethanes — Trihal																
54 Purgeable Halocarbons — Purg																
6C Resin Acids Fatty Acids Scan																
6E Guiacols Catechols Phenolics Scan																
GC Organics																
71 Pesticide/PCB's — Pest/PCB																
72 Pesticides Only — Pest (BV)																
74 PCB's Only — PCB	X	X	X	X	X											
42 EDB — EDB																
73 Herbicides *(List each/circle on reverse)*																
77 Organophosphate Pesticides *(List each)*																
Specific/Other Miscellaneous Organics:																
60 Specific Organics — *(List below)*																
67 PolyAromHydro (HPLC) — PAH																
79 Chlorophenols (GC)																
(additional space to list is provided below)																

Save samples after analysis? **NONE** **SOME*** **ALL*** *(if* **SOME**, *circle sample numbers)*

List any additional specific organics: _____

Special detection limits and comments: _____

Requester's Signature *Date*

**If samples should be saved, why?* Possible enforcement action

EPA X-91 Lab Copy - *White* Project Officer Copy - *Blue*

The following list shows the proper sample containers to be used when submitting samples to the lab. These containers represent the minimum volumes required. Proper containers should be submitted for each group of parameters requested.

Sample Container	Parameters	Sample Container	Parameters
❑ ½ Gallon Jar	Herbicides	❑ 1 Quart Jar	Phenols
❑ 2 40 ml Vials	VOA's, Purgeables, Trihalomethanes	❑ 1 Quart Jar	Oil & Grease
		❑ 1 Quart Jar	Total Organic Halides (TOX)
❑ 1 16 oz. Jar for sediments	inorganics and organics	❑ 1 Gallon & ½ Gallon Jar	PCB's, Pesticides, BN/Acids, PAH
❑ 1 8 oz. Jar for sediments	inorganics or organics		

Organics - Base/Neutral Extractables
Workgroup(s) 68

Phenol
bis(2-Chloroethyl) ether
2-Chlorophenol
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Benzyl Alcohol
1,2-Dichlorobenzene
2-Methylphenol
bis(2-Chloroisopryl)ether
4-Methylphenol
N-Nitroso-di-n-Propylamine
Hexachloroethane
Nitrobenzene
Isophorone
2-Nitrophenol
2,4-Dimethylphenol
Benzoic Acid
bis(2-Chloroethoxy) methane
Phenol, 2,4-dichloro-
Benzene, 1 ,2,4-trichloro
Napthalene
Aniline, 4-chloro-
Butadiene, Hexachloro
4-Chloro-3-methylphenol
2-methyl napthalene
Cyclopentadiene, hexachlor
Phenol, 2,4,6-trichloro-
Phenol, 2,4,5-trichloro-
Napthalene, 2-chloro-
Aniline, 2-nitro-
Phthalate, dimethyl
Acenaphthylene
Aniline, 3-nitro-
Acenaphthene
Phenol, 2,4-dinitro-
Phenol, 4-nitro-
Dibenzofuran
Toluene, 2,4-dinitro-
Toluene, 2,6-dinitro-
Phthalate, diethyl
Ether 4-chlorophenyl, phenyl
Fluoene
Aniline, 4-nitro
4,6 Dinitro-2-methylphenol
Nitrosamine, diphenyl-
Ether, 4-bromphenyl phenyl
Benzene, hexachloro-
Phenol, pentachloro-
Phenanthrene
Anthracene
Phthalate, di-n-butyl-
Fluoranthene
Pyrene
Phthalate, n-butyl benzyl
Benzidine, 3,3'-dichloro
Anthracene, benzo(a)-
Phthalate, bis (2-ethylhexyl)
Chrysene
Phthalate, di-n-octyl
Fluoranthene benxo(b)
Fluoranthene benxo(k)-

Organics - Volatile
Workgroup 51

Chloromethane
Bromoethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1-1-Dichloroethene
1-1-Dichloroethane
Trans-1,2-Dichloroethene
Chloroform
1,2-Dichloroethane
2-Butanone
1 1 1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Bromdichloromethane
1,2-Dichloropropane
Trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
Cis-1,3-Dichloropropene
Bromoform
2-Hexanone
4-Methyl-2-Pentanone
Tetrachloroethene
Toluene
Chlorobenzene
Ethylbenzene
Styrene
Total Xylenes

Trihalomethanes
Workgroup 53

Chloroform
Dichlorobromomethane
Chlorodibromomethane
Bromoform

Purgeable Halocarbons
Workgroup 54

Chloroform
Dichlorobromomethane
Chlorodibromomethane
Bromoform
Carbon Tetrachloride
Chlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
1,2-(trans)-Dichloroethene
1,2-Dichloropropane
Methylene Chloride
Tetrachloroethene
1,1,1-Trichlorethane
1,1,2-Trichlorethane
Trichlorethene

Polycyclic Aromatic Hydrocarbons
Workgroup 67

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthane
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

PCB Analysis Only
Workgroup 74

PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260

Organophosphorous Pesticides
Workgroup 77

Mevinphos
Phorate
Dimethoate
Diazinon
Methyl Parathion
Ethyl Parathion
Malathion
Ethion
Carbophenothion
Azinphos (Methyl or ethyl)
Dichlorvos
Dioxathion
Ronnel
Fenthion
Ethoprop
Chloropyrifos
EPN
Imidan
Coumaphos
Disulfoton

Chlorinated Hydrocarbons
Workgroup 70

1,2-Dichlorobenzene
1,2,3-Trichlorobenzene
1,2,4,5-Tetrachlorobenzene
Pentachlorobenzene
Hexachlorobenzene

Pesticides Only
Workgroup 72

Aldrin
Chlordane
Dieldrin
DDT, 4'4'-
DDE, 4'4'-
DDD, 4'4'-
Endosulfan, I
Endosulfan, II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
BHC, alpha-
BHC, beta-
BHC, gamma-
BHC, delta-
Toxaphene
Methoxychlor
Endrin Ketone

Pesticide/PCB Analysis
Workgroup 71

Aldrin
Chlordane
Dieldrin
DDT, 4'4'-
DDE, 4'4'-
DDD, 4'4'-
Endosulfan, I
Endosulfan, II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
BHC, alpha-
BHC, beta-
BHC, gamma-
BHC, delta-
Toxaphene
PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260
Methoxychlor
Endrin Ketone

Organics - Herbicides
Workgroup 73

2,4,5-T
2,4-D
2,4-DB
2,4,5-TB
Silvex (2,4,5-TP)
MCPA
MCPP
MCPB
Pentachlorophenol
Total Tetrachlorophenols
Dicamba
Bromoxynil
Ioxynil
Dinoseb
Picloram
DCPA (Dachthal)
2,4,5-TCP
2,4,6-TCP
Dichloroprop

Other Organic Workgroups:

WG 50 Purg Organics-Specfd-GCMS
WG 55 Air/Toxics Volatiles
WG 61 B/N Ext-Specified
WG 62 B/N Extract Scan
WG 64 Acid Ext - Specified
WG 65 Acid Ext - Scan
WG 69 Resin Acids Guaiacols Catechols Scan
WG 6C Resin Acids Fatty Acids Scan
WG 6E Guaiacols Catechols Phenolics Scan
WG 70 Misc GC Specified
WG 75 Pesticides - Drk Wtr Scan
WG 76 Pest/Herb - HPLC
WG 78 N-Arom Hydrocrbn (N-PAH) Scan
WG 79 Chlorophenols (GC)
WG 7A Chlorinated Catechols
WG 7B Butyltin Scan

Matrix Codes:

00 Other	46 EPT-Sld	12 Water-Sus Frac	60 Air	17 TCLP-Liq	85 Oil-Frac Sludge
5 Sld/SemiSld	11 Water-Dissolved	48 SWLP-Sld	16 EPT-Liq	80 Oil/Solvent	
10 Water-Total	47 TCLP-Sld	15 Liquid	70 Tissue	40 Sediment	

Note: *To obtain a complete Priority Pollutant scan, request **WG 68, 51, 71,** and **40** on this sheet and **31** on the metals analysis request form.*

☆GPO 1991-592-679/1003-M

FIELD SAMPLE DATA AND CHAIN OF CUSTODY SHEET

EPA Region 10
1200 Sixth Avenue
Seattle WA 98101

Case No.: AFL3A

Project Code: 000-054-B **Account:** ~~4AFL4A~~ 4A

Name/Location Nudelman + Sons

(EPA Lab Only, Leave Blank for Contract Lab)

Proj. Off.: Dan Heister **Tel.#** (503)326-6869

☒ Enforcement/Custody
☐ Data Confidential
☐ Possible Toxic/Hazardous
☐ Data for STORET

Miscellaneous: Possible High Level PCB

Sampling Crew: Dan Heister, Bruce Long

Recorder: Dan Heister (Signatures Required)

SOURCE CODE	Matrix: Oil	Water	Sediment	Tissue	Prep'd (Y/N)	# CONTAINERS: Qt. Cubit	Gal. Cubit	16 oz.	8 oz.	120 ml.	40 ml.	Other	LAB NUMBER Yr.	Wk	Seq	STORET STATION NUMBER	SAMPLING DATE & TIME Yr	Mo	Dy	Time	TRAFFIC REPORT NUMBERS Org.	Inorg.	SAMPLERS INITIALS	STATION DESCRIPTION
81	X								X				94	24	4565		94	06	13				DPH	Wipe Sample from Well Pump
81			X						X				94	24	4566		94	06	13				DPH	Soil from inside Trans Carcass
81			X						X				94	24	4567		94	06	13				DPH	Insulation from inside Trans
81			X						X				94	24	4568		94	06	13				DPH	Potting Compound from Crushed Ballast
81			X						X				94	24	4569		94	06	13				DPH	Potting Compound from 2nd Crushed Ballast

LAB NUMBER Yr.	Wk	Seq	DEPTH	Units	Type	COL MTD CD	QA CODE	TEMP DEG C	pH	CNDCTVTY umho/cm	COMPOSITE ONLY: ENDING DATE Mo.	Day	Time	Type	Freq

Condition of Samples upon Receipt at Lab: Good - no ice in cooler

Custody Seals Intact: ☐ yes Broken ☐ no ☐ none

CHAIN OF CUSTODY RECORD

Relinquished by: (signature)	Received by: (signature)	Date/Time
Relinquished by: (signature)	Received by: (signature)	Date/Time
Relinquished by: (signature)	Received by: (signature)	Date/Time
Relinquished by: (signature)	Received by Mobile Lab For Field Analysis: (signature)	Date/Time
Dispatched by: (signature) Daniel D. Heister	Date/Time 8/12/94 3:00pm	Received for Lab by: (signature) Bonnie Kamla ICF	Date/Time 8/12/94 13:00

Method of Shipment Fed Ex

Laboratory Copy White — Project Officer Copy Yellow — Field or Office Copy Pink

★ Source Codes and Descriptions ★

Code	Description
00	Unspecified Source
01	Unknown Liquid Media (Drum/Tank)
02	Unknown Liquid Media (Spill Area)
03	Unknown Liquid Media (Waste Pond)
10	Water (General)
12	Ambient Stream/River
13	Lake/Reservoir
14	Estuary/Ocean
15	Spring/Seepage
16	Rain
17	Surface Runoff/Pond (General)
18	Irrigation Canal/Return Flow
20	Well (General)
21	Well (Industrial/Agricultural)
22	Well (Drinking Water Supply)
23	Well (Test/Observation)
24	Drinking Water Intake
25	Drinking Water (At Tap)
30	Effluent Wastewater (General)
31	Municipal Effluent
32	Municipal Inplant Waters
33	Sewage Runoff/Leachate
34	Industrial Effluent
35	Industrial Inplant Waters
36	Industrial Surface Runoff/Pond
37	Industrial Waste Pond
38	Landfill Runoff/Pond/Leachate
40	Sediment (General)
42	Bottom Sediment or Deposit
44	Sludge (General)
45	Sludge (Waste Pond)
46	Sludge (Drum/Tank)
48	Soil (General)
49	Soil (Spill/Contaminated Area)
50	Bore Hole Material
60	Air (General)
61	Ambient Air
62	Source or Effluent Air
63	Industrial or Workroom Air
64	Hi-Vol Filter
70	Tissue (General)
71	Fish Tissue
72	Shellfish Tissue
73	Bird Tissue
74	Mammal Tissue
75	Macroinvertebrate
76	Algae
77	Periphyton
78	Plant/Vegetation
80	Oil/Solvent (General)
81	Oil (Transformer/Capacitor)
82	Oil/Solvent (Drum/Tank)
83	Oil/Solvent (Spill Area)
84	Oil/Solvent (Waste Pond)
90	Commercial Product Formulation
95	Well Drill Water
96	Well Drill Mud
97	Well Sealing Material
98	Gravel Pack Material

★ Collection Method Codes ★

Code	Description
00	Unknown
10	Hand Grab
11	Plastic Bucket
12	Stainless Steel Bucket
13	Brass Kemmerer
14	PVC Kemmerer
15	D.O. Dunker
16	DH 48/DH 49 Integrating Sampler
17	Van Dorn Bottle
18	Glass Dip Tube
19	Other
20	Automatic Sampler (General)
21	ISCO Auto Sampler
22	Manning Auto Sampler
25	Well Point Sampler (Pump)
26	Stainless Steel Bailer (Hand)
30	Dredge (Unspecified)
31	Dredge (Peterson)
32	Dredge (Van Dorn)
33	Dredge (Van Veen)
34	Core
35	Freeze Core
40	Macroinvertebrate (Unspecified)
41	Picked by Hand
42	Kick Net
43	Surber
44	Modified Hess Type Sampler
45	Rock Basket
46	Hester Dandy Sampler
50	Fish (Unspecified)
51	Fish (Shocking)
52	Fish (Netting)
53	Fish (Hook & Line)
54	Fish (Poison)
60	Periphyton (Unspecified)
61	Rock Scraping
62	Glass Slides

★ Composite Codes ★

Type	Description
T	Time Composite
S	Space Composite
F	Flow Propotrioned Composite
B	Both Space & Time Composite

Freq	Description
C	Continuous
G	Grabs (# Unknown)
##	Number of Grabs

★ Depth Codes ★

Unit	Description
F	Feet
M	Meters

Type	Description
-	Regular (Blank)
V	Vertically Integrated
B	Sample at Bottom

★ Quality Assurance Codes ★

Code	Description
FBLK	Field Blank Sample (Dist H_2O)
FXFR	Field Transfer Blank Sample
FTRS	Field Transport Blank Sample
FRXS	Field Reagent Sample
FRNS	Field Rinse Water Sample
FSPK	Field Spiked Sample
FDP1	Field Duplicate Sample #1
FDP2	Field Duplicate Sample #2
FSPL	Field Split Sample

★GPO 1991-592-672/1003