

TEXTRON Lycoming

Stratford Division
Textron Lycoming /
Subsidiary of Textron Inc.

550 Main Street
Stratford, CT 06497
203/385-2000

13 September 1988

Mr. G. Dews
Ct. D.E.P.
Hazardous Matls. Mgmt.
165 Capitol Avenue
Hartford, CT 06106

Dear Mr. G. Dews:

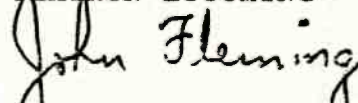
Enclosed you will find a copy of soil analyses on samples taken in the equalization lagoon in our Surface Impoundment Closure.

The schedule plans call for the Cap to be ordered in the next week to ten days. In this regard I am also submitting a copy of the addendum which the Army consultant, Metcalf & Eddy had sent to us, but did not forward to you for review. The closure contractor for the surface impoundments would like to complete work on the equalization lagoon before the sludge impoundments completion.

If you have any questions, please do not hesitate to contact me.

Very truly yours

TEXTRON LYCOMING



John Fleming, Supl.
Environmental Compliance

Enclosure

September 12, 1988

VFL
550 Main St.
Stratford CT 06497

RE: LAB. No.88-279-17
P.O. No.VFL-C2260
Inv. No.4776

Gentlemen:

The attached report are results of analysis on the above referenced Purchase Order.

The samples were received on August 25, 1988.

The method of analysis was by Gas Chromatography using FID, PID, and/or HECD techniques.

All results are reported in parts per billion unless noted on the report.

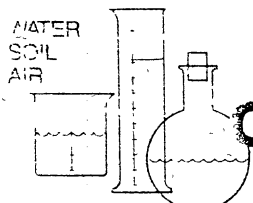
Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director

SJF:hc

WATER
SOIL
AIR



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testing
laboratories inc.**

STEPHEN J. FRANCO
Laboratory Director

PHONE 203/634-3700

140 GRACEY AVENUE MERIDEN, CT 06450

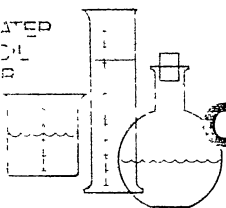
Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 1

(Sample Matrix= Solid)

<u>EPA METHOD</u>	<u>601/8010</u>	<u>MDL</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Chloromethane		50	BDL	BDL	BDL	BDL
Bromomethane		50	BDL	BDL	BDL	BDL
Vinylchloride		50	BDL	BDL	BDL	BDL
Chloroethane		50	BDL	BDL	BDL	BDL
Methylenechloride		25	BDL	BDL	BDL	BDL
Trichlorofluoromethane		25	BDL	BDL	BDL	BDL
11-Dichloroethylene		25	BDL	BDL	BDL	BDL
11-Dichloroethane		25	BDL	BDL	BDL	BDL
T12-Dichloroethylene		25	BDL	BDL	BDL	BDL
Chloroform		25	BDL	BDL	BDL	BDL
12-Dichloroethane		25	BDL	BDL	BDL	BDL
111-Trichloroethane		25	BDL	BDL	BDL	BDL
Carbontetrachloride		25	BDL	BDL	BDL	BDL
Bromodichloromethane		25	BDL	BDL	BDL	BDL
12-Dichloropropane		25	BDL	BDL	BDL	BDL
T13-Dichloropropylene		25	BDL	BDL	BDL	BDL
Trichloroethylene		25	BDL	BDL	BDL	BDL
Dibromochloromethane		25	BDL	BDL	BDL	BDL
112-Trichloroethane		25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene		25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether		25	BDL	BDL	BDL	BDL
Bromoform		25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane		25	BDL	BDL	BDL	BDL
Tetrachloroethylene		25	64.0	BDL	BDL	BDL
Chlorobenzene		25	BDL	BDL	BDL	BDL
Benzyl Chloride		50	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane		50	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe		50	BDL	BDL	BDL	BDL
Bromobenzene		25	BDL	BDL	BDL	BDL
Chloroacetaldehyde		50	BDL	BDL	BDL	BDL
1-Chlorohexane		25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether		50	BDL	BDL	BDL	BDL
Chlorotoluene		25	BDL	BDL	BDL	BDL
Dibromomethane		25	BDL	BDL	BDL	BDL
12-Dichlorobenzene		25	BDL	BDL	BDL	BDL
13-Dichlorobenzene		25	BDL	BDL	BDL	BDL
14-Dichlorobenzene		25	BDL	BDL	BDL	BDL
Trichloropropane		25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

STATE
 LABORATORY



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STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-1111

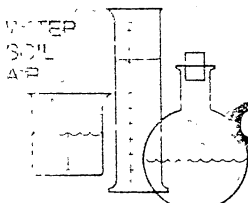
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO-No. :VFL-C2260
 Date :9-12-88
 Page 2

(Sample Matrix= Solid)

<u>EPA METHOD</u>	<u>601/8010</u>	<u>MDL</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
Chloromethane	50	BDL	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL	BDL
Chloroacetaldehyde	50	BDL	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL	BDL

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STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-8700

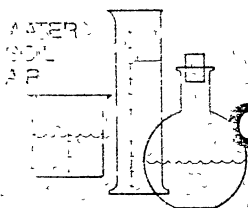
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 23

(Sample Matrix= Solid)

<u>EPA METHOD</u>	<u>601/8010</u>	<u>MDL</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Chloromethane	50	BDL	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL	BDL
Chloroacetaldehyde	50	BDL	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB



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STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-3771

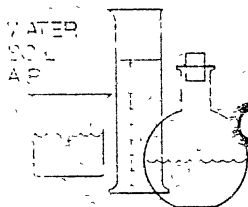
140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 4

(Sample Matrix= Solid)

<u>EPA METHOD</u>	<u>601/8010</u>	<u>MDL</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>
Chloromethane	50	BDL	BDL	BDL	BDL	BDL
Bromomethane	50	BDL	BDL	BDL	BDL	BDL
Vinylchloride	50	BDL	BDL	BDL	BDL	BDL
Chloroethane	50	BDL	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Benzyl Chloride	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	50	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ethe	50	BDL	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL	BDL
Chloroacetaldehyde	50	BDL	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	50	BDL	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB



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STEPHEN J. FRANCIS
 Laboratory Director

PHONE 203/634-3774

140 GRACEY AVENUE MERIDEN, CT 06450

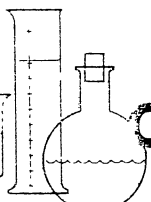
Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 5

(Sample Matrix= Solid)

<u>EPA METHOD</u>	<u>601/8010</u>	<u>MDL</u>	<u>17</u>
Chloromethane	50	BDL	
Bromomethane	50	BDL	
Vinylchloride	50	BDL	
Chloroethane	50	BDL	
Methylenechloride	25	BDL	
Trichlorofluoromethane	25	BDL	
11-Dichloroethylene	25	BDL	
11-Dichloroethane	25	BDL	
112-Dichloroethylene	25	BDL	
Chloroform	25	BDL	
12-Dichloroethane	25	BDL	
111-Trichloroethane	25	BDL	
Carbontetrachloride	25	BDL	
Bromodichloromethane	25	BDL	
12-Dichloropropane	25	BDL	
113-Dichloropropylene	25	BDL	
Trichloroethylene	25	BDL	
Dibromochloromethane	25	BDL	
112-Trichloroethane	25	BDL	
Cis13-Dichloropropylene	25	BDL	
2-Chlorethylvinylether	25	BDL	
Bromoform	25	BDL	
1122-Tetrachloroethane	25	BDL	
Tetrachloroethylene	25	59.0	
Chlorobenzene	25	BDL	
Benzyl Chloride	50	BDL	
Bis(2-chlorethoxy)methane	50	BDL	
Bis(2-chloroisopropyl)ethe	50	BDL	
Bromobenzene	25	BDL	
Chloroacetaldehyde	50	BDL	
1-Chlorohexane	25	BDL	
Chloromethyl methyl ether	50	BDL	
Chlorotoluene	25	BDL	
Dibromomethane	25	BDL	
12-Dichlorobenzene	25	BDL	
13-Dichlorobenzene	25	BDL	
14-Dichlorobenzene	25	BDL	
Trichloropropane	25	BDL	

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

WATER
SOIL
AIR



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laboratories inc.**

STEPHEN J. FRANKS
Laboratory Director

PHONE 203/634-0700

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 6

(Sample Matrix= Solid)

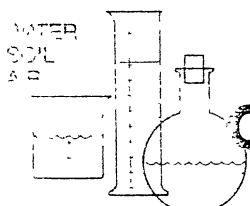
EPA METHOD 602/8020

	MDL	1	2	3	4
Benzene_____	50	BDL	BDL	BDL	BDL
Toluene_____	50	BDL	BDL	BDL	BDL
Ethyl Benzene_____	50	BDL	BDL	BDL	BDL
P & M Xylene_____	50	BDL	BDL	BDL	BDL
O- Xylene_____	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene_____	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene_____	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene_____	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone_____	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone_____	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.



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STEPHEN J. FRANK
 Laboratory Director

PHONE 203/634-87

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 7

(Sample Matrix= Solid)

EPA METHOD 602/8020

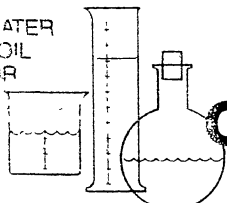
	MDL	5	6	7	8
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.

WATER
 SOIL
 AIR



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 laboratories inc.**

STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-3733

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 8

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	9	10	11	12
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.



STEPHEN J. FRANCO
 Laboratory Director
 PHONE 203/624-0377

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 9

(Sample Matrix= Solid)

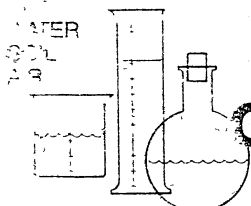
EPA METHOD 602/8020

	MDL	13	14	15	16
Benzene	50	BDL	BDL	BDL	BDL
Toluene	50	BDL	BDL	BDL	BDL
Ethyl Benzene	50	BDL	BDL	BDL	BDL
P & M Xylene	50	BDL	BDL	BDL	BDL
O- Xylene	50	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL	BDL	BDL
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Iso Butyl Ketone	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level.

BDL = Below Detection Level

ALL UNITS IN PPB UNLESS NOTED.



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STEPHEN J. FRANKO
 Laboratory Director
 PHONE 203/634-1700

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-279-17
 PO No. :VFL-C2260
 Date :9-12-88
 Page 10

(Sample Matrix= Solid)

EPA METHOD 602/8020

	MDL	17		
Benzene	50	BDL		
Toluene	50	BDL		
Ethyl Benzene	50	BDL		
P & M Xylene	50	BDL		
O- Xylene	50	BDL		
1,4-Dichlorobenzene	50	BDL		
1,3-Dichlorobenzene	50	BDL		
1,2-Dichlorobenzene	50	BDL		
Methyl Ethyl Ketone	100	BDL		
Methyl Iso Butyl Ketone	100	BDL		

MDL = Minimum Detectable Level

BDL = Below Detection Level

ALL **UNITS** IN **PPB** UNLESS NOTED.



STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-3700

140 GRACEY AVENUE MERIDEN, CT 06450

September 9, 1988

VFL
550 Main Street
Stratford, Ct. 06497

RE Lab. #88-274-17
PO/Job #VFL-C2260
Invoice #4763

Gentlemen:

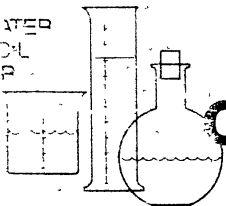
The following is a report of analysis on samples received:
August 25, 1988.

RESULTS OF ANALYSIS

	1	2	3	4
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	ND<0.01	ND<0.01	ND<0.01	0.03
Chromium, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.19	0.06	ND<0.05	0.06
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	5	6	7	8
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.02	0.01	0.01	0.02
Chromium, total-mg/l	ND<0.05	ND<0.05	0.11	0.06
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.30	0.13	0.17	0.15
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

WATER
SD-L
A.P.



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laboratories inc.**

STEPHEN J. FRANCO
Laboratory Director

PHONE 203/634-4731

140 GRACEY AVENUE MERIDEN, CT 06450

Client :VFL
 Lab No.:88-274-17
 PO No. :VFL-C2260
 Date :Sept. 9, 1988
 Page 2

RESULTS OF ANALYSIS

	9	10	11	12
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.01	0.02	ND<0.01	ND<0.01
Chromium, total-mg/l	0.06	0.12	0.51	0.16
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.03	0.21	ND<0.05	ND<0.05
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05

	13	14	15	16
Arsenic-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/l	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/l	0.06	0.05	0.07	0.02
Chromium, Total-mg/l	0.09	0.10	0.05	0.05
Lead-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Mercury-mg/l	ND<0.02	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/l	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Chromium, Hex.-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Nickel-mg/l	0.20	0.13	0.18	0.27
Cyanide, Total-mg/l	ND<0.05	ND<0.05	ND<0.05	ND<0.05



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STEPHEN J. FRANCO
 Laboratory Director

PHONE 203/634-5772

140 GRACEY AVENUE MERIDEN, CT 06470

Client :VFL
 Lab No.:88-274-17
 PO No. :VFL-C2260
 Date :Sept. 9, 1988
 Page 3

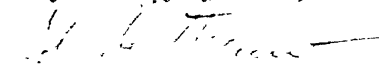
RESULTS OF ANALYSIS

17

Arsenic-mg/l	ND<0.05			
Barium-mg/l	ND<0.5			
Cadmium-mg/l	ND<0.01			
Chromium, Total-mg/l	0.07			
Lead-mg/l	ND<0.05			
Mercury-mg/l	ND<0.02			
Selenium-mg/l	ND<0.01			
Silver-mg/l	ND<0.01			
Chromium, Hex-mg/l	ND<0.05			
Nickel-mg/l	0.02			
Cyanide, Total-mg/l	ND<0.05			

Please contact us if you have any questions.

Very truly yours,


 Stephen J. Franco
 Laboratory Director



STEPHEN J. FRANCO
 Laboratory Director
 PHONE 203/63-4474

140 GRACEY AVENUE MERIDEN, CT 06450

TO: *John Fleming*
VFL Plant Engineering

SUBJECT: *VFL Project No. C2260*
Lagoon Closure Drawings.

DATE *10/05/88*

Per your request, attached are two figures showing sample locations in the equalization lagoon area and a typical x-section of the area sampled. If you have any questions or comments please contact me.

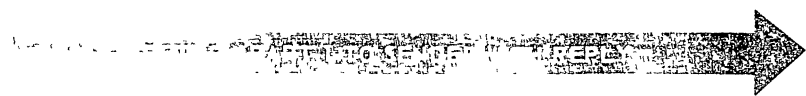
J.F. Landis

cc. J.F. Hopkins/VFL

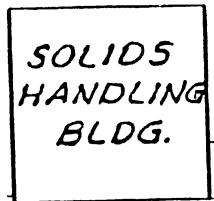
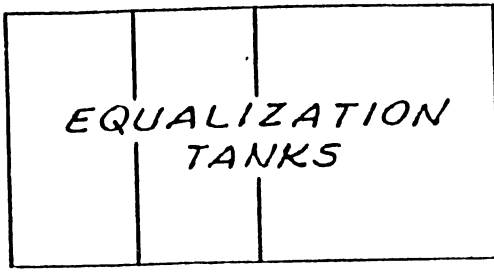


DATE

BY



BY

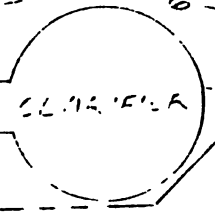
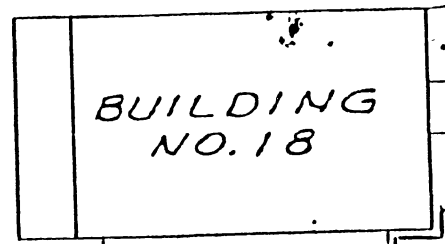


PUMP CHAMBER

B-12 ⊕

SAND FILTER

MONITORING BOX



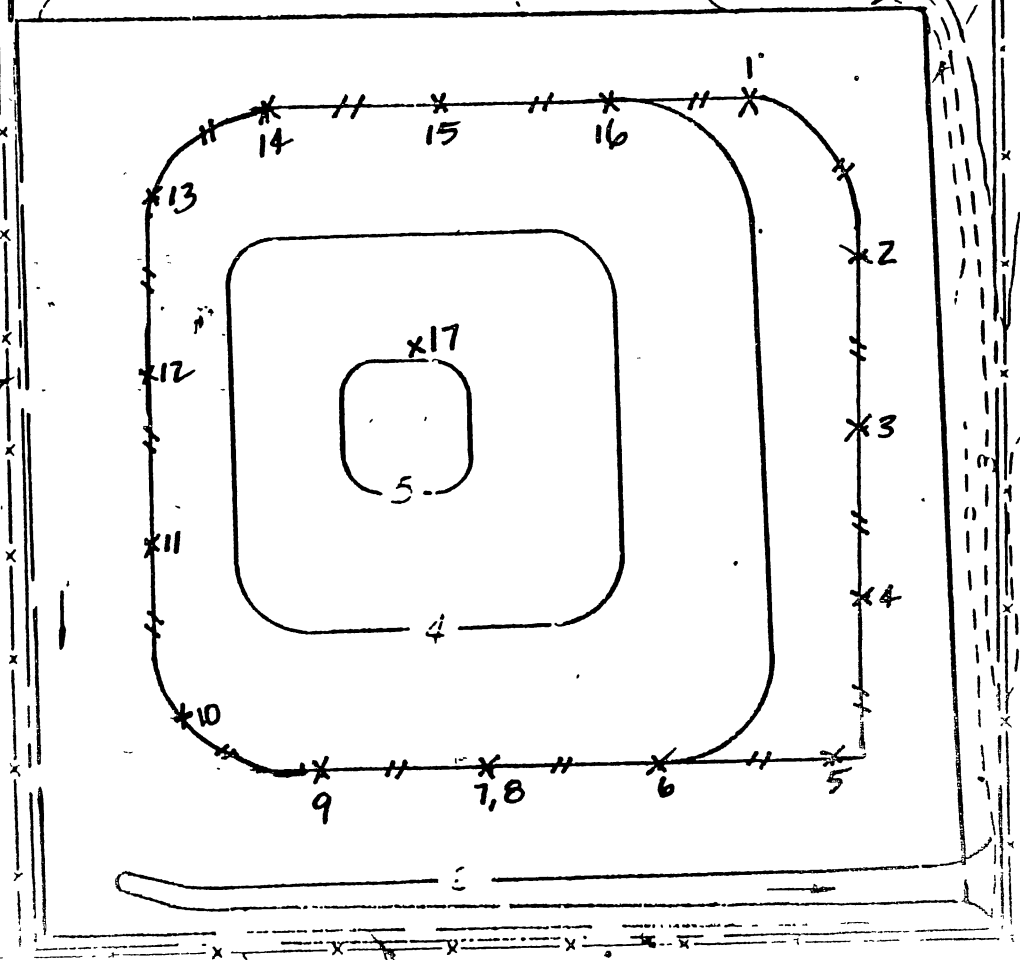
— — — — — Limit of excavation

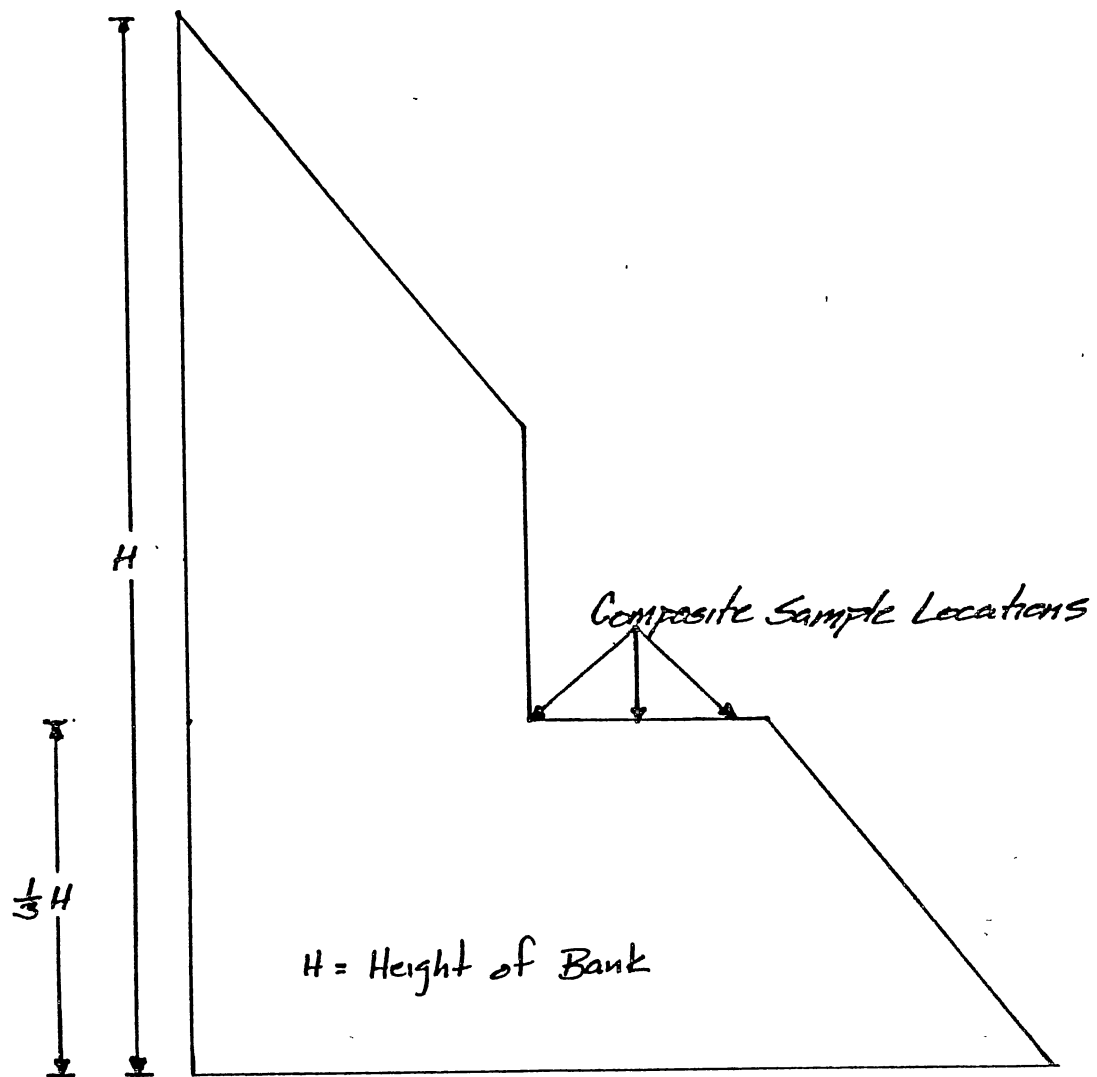
X - Test # & location

1" = 40'

VEL Project No. C2260

JRL 10/05/88





Typical X-section of sample areas


NORTH AMERICA, INC.

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 SLT ENVIRONMENTAL, INC.

PHYSICAL PROPERTIES OF SLT HDPE SHEET

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>VALUE</u>	<u>UNIT</u>
Density ¹ (Natural)	ASTM-D-792	0.935±0.003	gm/cm ³
Melt Index ¹	ASTM-D-1238 "E"	0.2 to 0.6	gm/10 min
Moisture Content ¹	Moisture Balance	≤0.1	%
Oxidative Induction Time 1.2 :	ASTM D-3895 @200°C	100	Minutes
Thickness ²	ASTM-D-1593	±10	%
Environmental Stress Crack Resistance ²	ASTM-D-1693 "C" ASTM-D-1693 "B"	>5000 >2000	Hours Hours
Dimensional Stability ²	ASTM-D-1204 120°C @ 1 Hr.	±2.0	%
Tensile Properties ²			
(1) Yield Strength	ASTM-D-638	2700	lb/in ²
(2) Break Strength	ASTM-D-638 Type IV	4000	lb/in ²
(3) Yield Elongation	ASTM-D-638 Type IV :	15	%
(4) Break Elongation	ASTM-D-638 Type IV	700	%

1 - Resin Property Requiring Routine Testing

2 - Liner Property Requiring Routine Testing

All Testing Frequencies per SLT Quality Assurance Manual


NORTH AMERICA, INC.

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PHYSICAL PROPERTIES OF SLT HDPE SHEET

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>VALUE</u>	<u>UNIT</u>
Flexural Modulus	ASTM-D-790	100,000	lb/in ²
Tensile Modulus ²	ASTM-D-638	80,000	lb/in ²
Resistance to Soil Burial	ASTM-D-3083 ASTM-D-638 Type IV		
(1) Tensile Strength at Break		±10	% change
(2) Elongation at at Break		±10	% change
Volatile Loss	ASTM-D-1203 "A"	<0.1	%
Water Absorption	ASTM-D-570	0.0079	%
Water Vapor Transmission	ASTM-E-96 "B"	0.0009	gm/m ² 24 Hrs.
Puncture Resistance ²	FTMS-101-C Method 2065	108 (for 1.5mm) 128 (for 2.0mm) 140 (for 2.5mm)	lbs
Tear Resistance ²	ASTM-D-1004	60 (for 1.5mm) 80 (for 2.0mm) 100 (for 2.5mm)	lb _f

1 - Resin Property Requiring Routine Testing

2 - Liner Property Requiring Routine Testing

All Testing Frequencies per SLT Quality Assurance Manual


NORTH AMERICA, INC.

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 SLT ENVIRONMENTAL, INC.

PHYSICAL PROPERTIES OF SLT HDPE SHEET

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>VALUE</u>	<u>UNIT</u>
Abrasion Resistance (Tabor Wear Index)	ASTM-D-3389	0.406 (for 1.5mm) 0.377 (for 2.0mm) 0.272 (for 2.5mm)	gms
Tensile Impact ²	ASTM-D-1822	500	mJ/mm ²
Low Temp Brittleness	ASTM-D-746-"B"	-105	°F
Surface Hardness	ASTM-D-2240	65	Shore D
Coefficient of Linear Thermal Expansion	ASTM-D-696	1.2 x 10 ⁻⁴	°C ⁻¹
Carbon Black Content ²	ASTM-D-1603	2.0-3.0	%
Carbon Black Dispersion ²	ASTM-D-3015	A	Rating
Fungus Resistance	ASTM-G-21-80	0	Growth
Bacterial Resistance	ASTM-G-22-76	0	Growth
Ozone Resistance	ASTM-D-1149 (7 days, 100pphm, 104°F)	No Cracks	7x
Field Seams:	ASTM-D-4437		
Peel Strength	ASTM-D-4437	>1800	lbs/in ²
Tensile Strength	ASTM-D-4437	>2400	lbs/in ²

1 - Resin Property Requiring Routine Testing

2 - Liner Property Requiring Routine Testing

All Testing Frequencies per SLT Quality Assurance Manual