

39856

COMBE FILL LANDFLL
CHESTER HILLS - FILIBERTO
1407A

300073



HN G. REUTTER ASSOCIATES
ENVIRONMENTAL LABORATORY

Ninth and Cooper Streets, Camden, New Jersey 08101
phone: 609 541-7700

CLIENT: RAS Associates
ADDRESS: 9th & Cooper Sts.
Camden, NJ 08101

LAB NUMBER: 4716
DATE RECEIVED: 2/26/80
DATE SAMPLED: 2/26/80
SAMPLED BY: JGRA

REQUESTED BY: Gary Brown, RAS

REFERENCE: Combe Fill South

LABORATORY ANALYSIS REPORT

SAMPLE NUMBER	SAMPLE DESIGNATION/DESCRIPTION
1	Well #1
2	Well #2
3	Well #3
4	Well #4
5	Well #5

SAMPLE NUMBER						
PARAMETER	1	2	3	4	5	
Biochemical Oxygen Demand (5-day), mg/l	1.2	1.4	1.8	4.2	<1	
Chemical Oxygen Demand, mg/l	<5	<5	<5	8.2	12	
Chloride, mg/l	67	7.1	5.1	4.1	65	
Iron, total, mg/l	1.8	0.22	0.94	1.3	0.58	
Phenolics, mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	
Total Dissolved Solids, mg/l	350	60	100	230	210	
Hardness as CaCO ₃ , mg/l	110	21	64	40	120	

REMARKS

This analysis adhered to procedures as described in Standard Methods for the Examination of Water and Wastewater, 14th edition.

DATE 3/5/80

Michael Wright
Michael Wright, Chemist

300074

AGES

LABORATORIES

Philadelphia - Pottstown
215-545-5343

For: Combe-Fill Corp.
Parker Road, P.O. Box 418
Chester, N.J. 07930
Attn: Gary Molchan

P.O. # _____
Lab # _____
Invoice # 80097

300075

Date Sample Submitted: 11/19/79
Date Results Required: _____
Date Sampled: 11/19/79
Sampled by: AGES
Date Completed: 11/30/79
Tested by: AGES Labs
Supervisor: _____

Identification of Samples:

1. Landfill Well-garage
2. _____ - #2
3. _____ - Filiberto
4. _____ - #4

Analysis	#1	#2	#3	#4		Analysis	#1	#2	#3	#4
BOD (5 day 20°C) mg/l	< 1.0	< 1.0	< 1.0	< 1.0		METALS				
COD mg/l	11.9	35.7	< 4.0	15.9						
Dissolved Oxygen mg/l						Arsenic mg/l				
TOC mg/l						Barium mg/l				
Alkalinity mg/l Ca CO ₃						Cadmium mg/l				
Hardness mg/l Ca CO ₃	64	72	92	52		Calcium mg/l				
pH						Chromium mg/l				
Spec. Cond. M mhos/cm					X	Copper mg/l				
Specific Gravity						Iron mg/l Fe ⁺²	1.815	.021	.173	1.26
Color						Lead mg/l				
Turbidity						Magnesium mg/l				
Bromide mg/l						Mercury mg/l				
Chloride mg/l	87	8.5	15.3	15.2		Selenium mg/l				
Chlorine-Residual mg/l						Silver mg/l				
Cyanide mg/l						Zinc mg/l				
Fluoride mg/l						BACTERIOLOGICAL				
Ammonia Nitrogen mg/l	< 1.0	< 1.0	< 1.0	< 1.0						
Nitrate Nitrogen mg/l	.22	.18	.04	.05	X	St. Plate Count No/ml				
Nitrite Nitrogen mg/l					X	Total Coli. No/100ml	0	0	0	0
Organic Nitrogen mg/l					X	Fecal Coli. No/100ml	0	0	0	0
Total Phosphate as P mg/l						Fecal Streptococcus	0	0	0	0
Orthophosphate as P mg/l						OTHER				
Silica mg/l										
Sulfate mg/l										
Sulfide mg/l										
Sulfite mg/l										
Total Solids mg/l										
Dissolved Solids mg/l	169	43	80	43						
Suspended Solids mg/l										
Settleable Solids mg/l										
Grease and Oil mg/l										
Detergents mg/l										
Phenols mg/l	< .4	< .4	< .4	< .4						

AGES[®]

LABORATORIES

Philadelphia - Pottstown
215-545-5343

For: Combe-Cell Corp
Warner Road, P.O. Box 418
Chester, N.J. 07930
Attn: Gary Holohan

P.O. # _____
Lab # _____
Invoice # 30007

300076

Date Sample Submitted: 11/19/79
Date Results Required: _____
Date Sampled: 11/19/79
Sampled by: AGES
Date Completed: 11/30/79
Tested by: AGES Labs
Supervisor: _____

Identification of Samples:

1. Landfill Well- #5
2. Stream sample-heavy metals
3. _____
4. _____

Analysis	#1	#2	#3	#4	Analysis	#1	#2	#3	#4
BOD (5 day 20°C) mg/l	< 1.0				METALS				
COD mg/l	15.2				Arsenic mg/l				
Dissolved Oxygen mg/l					Barium mg/l				
TOC mg/l					Cadmium mg/l				
Alkalinity mg/l Ca CO ₃					Calcium mg/l				
Hardness mg/l Ca CO ₃	7.0				Chromium mg/l				
pH					Copper mg/l				
Spec. Cond. M mhos/cm					Iron mg/l	1.145	1.134		
Specific Gravity					Lead mg/l				
Color					Magnesium mg/l				
Turbidity					Mercury mg/l				
Bromide mg/l					Selenium mg/l				
Chloride mg/l					Silver mg/l				
Chlorine-Residual mg/l					Zinc mg/l				
Cyanide mg/l					BACTERIOLOGICAL				
Fluoride mg/l					St. Plate Count No/ml				
Ammonia Nitrogen mg/l	0.0				Total Coli. No/100ml	0			
Nitrate Nitrogen mg/l	1.3				Fecal Coli. No/100ml	0			
Nitrite Nitrogen mg/l					Fecal Streptococcus	0			
Organic Nitrogen mg/l					OTHER				
Total Phosphate as P mg/l									
Orthophosphate as P mg/l									
Silica mg/l									
Sulfate mg/l									
Sulfide mg/l									
Sulfite mg/l									
Total Solids mg/l									
Dissolved Solids mg/l	80								
Suspended Solids mg/l									
Settleable Solids mg/l									
Filtrable Solids mg/l									
Grease and Oil mg/l									
Detergents mg/l									
Phenols mg/l	< .1								

LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Lab. #79-2416
August 21, 1979
#1

Chester Hills, Inc.
Parker Road
Chester, New Jersey 07930

Biological and Bacteriological Analyses

BOD ₅	Less than 1	Mg/l
D.O.	9.2	Mg/l
Fecal Coliform	0	Per 100 Mls
Fecal Streptococci	0	Per 100 Mls
Total Coliform	0	Per 100 Mls

Chemical and Physical Analyses

(except heavy metals)

Ph			Color.....8.....Mg/l
Total dissolved Solids	320	Mg/l	Turbidity...7.6.....Mg/l
Hardness, as CaCO ₃	(235) - 50	....	*Fluoride.....01.....Mg/l
COD	(520)	....	*A.P.S./L.A.S. Less.....Mg/l than .01
Phenols	Less than .01*	....	
Phosphates	.04*	....	*Ammonia Nitrogen...3.....Mg/l
Nitrates	.3*	....	
Sulfate	2*	....	*Nitrogen Nitrate...Less.....Mg/l than .01
Chloride	162*	....	
Cyanide	.04*	....	
Ether Soluble	.3*	....	
<u>Heavy Metals</u>			
Arsenic	Less than 0.05	Mg/l	Barium.....0.22.....Mg/l
Cadmium	(0.11) .01	....	Selenium...Less than.....Mg/l 0.01
Chromium Hexavalent	0.02	....	Silver...Less than.....Mg/l 0.01
Copper	Less than 0.01	....	
Iron (Fe ⁺⁺)	(.05) .7	....	Sodium.....4.0.....Mg/l
Lead	(0.10) .05	....	
Manganese	(0.04) .05	....	
Zinc	0.07	....	

* Unfiltered sample Phone 201 663-1202

LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Lab. #79-1417
August 21, 1979
/2

Chester Mills, Inc.
Parmer Road
Chester, New Jersey 07930

Biological and Bacteriological Analyses

BOD ₅	Less than 1	Mg/l
D.O.	9.7	Mg/l
Fecal Coliform	0	Per 100 Mls
Fecal Streptococci	0	Per 100 Mls
Total Coliform	0	Per 100 Mls

Chemical and Physical Analyses

(except heavy metals)

Ph		Color..... 1	Mg/l
Total dissolved Solids	51*	Turbidity..... 66	Mg/l
Hardness, as CaCO ₃	132*	*Fluoride..... 0.75	Mg/l
COD	(260*)	*A.B.C./L.A.S. Less	Mg/l
Phenols	Less than .01*	than .01	
Phosphates	.06*	*Ammonia Nitrogen Less	/1
Nitrates	.15*	than .01	
Sulfate	1*	*Nitrogen Nitrate Less	/1
Chloride	90*	than .01	
Cyanide	.021*		
Ether Soluble	.5*		

Heavy Metals

Arsenic	Less than 0.05	Mg/l	Barium..... 0.10	Mg/l
Cadmium	Less than 0.01		Selenium Less than	Mg/l
Chromium Hexavalent	0.05		0.01	
Copper	Less than 0.01		Silver Less than	/1
Iron (Fe ⁺⁺)	0		0.01	
Lead	0.01		Sodium..... 4.5	/1
Manganese	0.05			
Zinc	0.01			

LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Lab. #79-1413
August 21, 1979
#3

Chester Mills, Inc.
Parker Road
Chester, New Jersey 07930

Biological and Bacteriological Analyses

BOD ₅	Less than 1	Mg/l
D.O.	9.1	Mg/l
Fecal Coliform	0	Per 100 Mls
Fecal Streptococci	0	Per 100 Mls
Total Coliform	0	Per 100 Mls

Chemical and Physical Analyses

(except heavy metals)

Ph		Color.....0.....Mg/l
Total dissolved Solids	85*	Mg/l Turbidity.....34.....Mg/l
Hardness, as CaCO ₃	122*	*Fluoride.....029.....Mg/l
COD	120*	*A.S.S./L.A.S. Less.....Mg/l
Phenols	Less than .01*	than .01
Phosphates	.03*	.....
Nitrates	.1*	*Ammonia Nitrogen Less.....Mg/l
Sulfate	3*	than .01
Chloride	31*	*Nitrogen Nitrate Less.....Mg/l
Cyanide	.027*	than .01
Ether Soluble	.4*	.....

Heavy Metals

Arsenic	Less than 0.05	Mg/l Barium.....0.42.....Mg/l
Cadmium	Less than 0.01	Selenium Less than.....Mg/l
Chromium Hexavalent	0.01	0.01
Copper	0.15	Silver.....Less than.....Mg/l
Iron (Fe ⁺⁺)	.01	0.01
Lead	0.05	Sodium.....0.6.....Mg/l
Manganese	0.05	.....
Zinc	0.02	.....

* Unfiltered **Phone 201 663-1202**

LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Lab. #79-1419
August 21, 1979
#4

Chester Mills, Inc.
Parlier Road
Chester, New Jersey 07930

Biological and Bacteriological Analyses

BOD ₅	.4	Mg/l
D.O.	4.5	Mg/l
Fecal Coliform	0	Per 100 Mls
Fecal Streptococci	0	Per 100 Mls
Total Coliform	0	Per 100 Mls

Chemical and Physical Analyses (except heavy metals)

Ph			Color.....2.....Mg/l
Total dissolved Solids	31*	Mg/l	Turbidity...2.5.....Mg/l
Hardness, as CaCO ₃	152*	....	*Fluoride......03.....Mg/l
COD	200*	....	*A.B.S./L.A.S. Less.....Mg/l
Phenols	602* .001	....	than .01
Phosphates	.11*	....	
Nitrates	.3*	....	*Ammonia Nitrogen. Less.....Mg/l
Sulfate	0*	....	than .01
Chloride	82*	....	
Cyanide	.016*	....	*Nitrogen Nitrate. Less.....Mg/l
Ether Soluble	.2*	....	than .01

Heavy Metals

Arsenic	Less than 0.05	Mg/l	Barium.....0.20.....Mg/l
Cadmium	Less than 0.01	....	Selenium. Less than.....Mg/l
Chromium Hexavalent	0.02	....	0.01
Copper	Less than 0.01		Silver..... Less than.....Mg/l
Iron (Fe ⁺⁺)	0		0.01
Lead	0.01		Sodium.....5.0.....Mg/l
Manganese	0.05		
Zinc	0.01		

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LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Lab. #79-1420
August 21, 1979
#5

Chester Mills, Inc.
Parter Road
Chester, New Jersey 07930

Biological and Bacteriological Analyses

BOD ₅	<u>Less than 1</u>	Mg/l
D.O.	<u>7.2</u>	Mg/l
Fecal Coliform	<u>0</u>	Per 100 Mls
Fecal Streptococci	<u>0</u>	Per 100 Mls
Total Coliform	<u>0</u>	Per 100 Mls

Chemical and Physical Analyses (except heavy metals)

Ph			Color..... <u>3</u>.....Mg/l
Total dissolved Solids	<u>171*</u>	Mg/l	Turbidity..... <u>3.9</u>.....Mg/l
Hardness, as CaCO ₃	<u>(156*) 150</u>	....	*Fluoride..... <u>.01</u>.....Mg/l
COD	<u>(760*)</u>	....	*A.B.S./L.A.S. Less.....Mg/l
Phenols	<u>.01*</u>	....	than .01
Phosphates	<u>.13*</u>	....	*Ammonia Nitrogen.....Less...../l
Nitrates	<u>.1*</u>	....	than .01
Sulfate	<u>1*</u>	....	*Nitrogen Nitrate.....Less.....Mg/l
Chloride	<u>108*</u>	....	than .01
Cyanide	<u>Less than .01*</u>	....	
Ether Soluble	<u>.15*</u>	....	

Heavy Metals

Arsenic	<u>Less than 0.05</u>	Mg/l	Barium..... <u>0.24</u>.....Mg/l
Cadmium	<u>Less than 0.01</u>	....	Selenium..... <u>Less than</u>.....Mg/l
Chromium Hexavalent	<u>0.01</u>	....	0.01
Copper	<u>Less than 0.01</u>	....	Silver..... <u>Less than</u>.....Mg/l
Iron(Fe ⁺⁺)	<u>.04</u>	....	0.01
Lead	<u>0.02</u>	....	Sodium..... <u>2.5</u>.....Mg/l
Manganese	<u>0.05</u>	....	
Zinc	<u>0.63</u>	....	

LAKELAND LABORATORIES

R. D. 1, BOX 373
LAKE HOPATCONG, N. J. 07849

Chester Mills, Inc.
Parker Road
Chester, New Jersey 07930

Lab. #79-991
May 17, 1979
#1 Garage

Biological and Bacteriological Analyses

BOD ₅	<u>0</u>	Mg/l
D.O.	<u>8.0</u>	Mg/l
Fecal Coliform	<u>0</u>	Per 100 Mls
Fecal Streptococci	<u>0</u>	Per 100 Mls
Total Coliform	<u>0</u>	Per 100 Mls

Chemical and Physical Analyses (except heavy metals)

Ph	<u>7.3</u>	Color.....0.....Mg/l
Total dissolved Solids	<u>72.5</u>	Mg/l Turbidity...3.....Mg/l
Hardness, as CaCO ₃	<u>(172) - 15</u>	 Fluoride. Less than...Mg/l
COD	<u>Less than 20</u>	01
Phenols	<u>Less than .001</u>	 A.B.S./L.A.S. Less...Mg/l
Phosphates	<u>.06</u>	 than .02
Nitrates	<u>.4</u>	 Ammonia Nitrogen. Less...Mg/l
Sulfate	<u>3</u>	 than .01
Chloride	<u>110</u>	 Nitrate Nitrogen...005...Mg/l
Cyanide	<u>.025</u>	....
Ether Soluble	<u>.4</u>	....

Heavy Metals

Arsenic	<u>Less than 0.05</u>	Mg/l Barium.....0.28.....Mg/l
Cadmium	<u>(0.13) - 1</u>	 Selenium. Less than...Mg/l
Chromium Hexavalent	<u>0.04</u>	 0.01
Copper	<u>Less than 0.01</u>	 Silver. Less than 0.05...Mg/l
Iron(Fe) ⁺⁺	<u>.05 - 3</u>	 Sodium.....16.....Mg/l
Lead	<u>(0.12) - 5</u>	
Manganese	<u>(0.06) - 5</u>	
Zinc	<u>3.2</u>	

Phone 201 663-1202

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