H&R

Haarmann & Reimer
300 North Street
Teterboro, NJ 07608

RECEIVED 12/23/02

December 18, 2002

VIA TELECOPIER AND CERTIFIED MAIL/R.R.R.

Seth Ausubel, Remedial Project Manager
United States Environmental Protection Agency
Region II
Emergency and Remedial Response Division
290 Broadway, 19th Floor
New York, NY 10007-1866

Re: **Response to § 104(e) Information Request**
Recipient: Haarmann & Reimer
Superfund Site: Berry's Creek Study Area
Bergen County, New Jersey

Dear Mr. Ausubel:

This is in response to the October 21, 2002 §104(e) Information Request ("Information Request") sent by Janet Conetta, Strategic Integration Manager, Emergency and Remedial Response Division of the United States Environmental Protection Agency to Haarmann & Reimer ("H&R") requesting information pertaining to the above-referenced Site ("Site").

As confirmed in the November 12, 2002, letter from McElroy, Deutsch & Mulvaney, LLP, our environmental counsel, you granted H&R a 30 day extension until December 21, 2002, within which to respond to the §104(e) Information Request.

H&R provides the following response to the §104(e) Information Request to the best of its knowledge, information and belief:

General Statement

H&R and the former owner/operator Florasynth, Inc. conduct operations at the premises known as 300 North Street, Teterboro, Bergen County, NJ ("Site"). The operations conducted on-site involve the development and mixing/blending of fragrances and flavors. In 1995, as a

82616

result of a stock purchase, Florasynth, Inc. triggered the requirement to comply with the New Jersey Environmental Clean-up Responsibility Act and the regulations promulgated thereunder, as amended by the Industrial Site Recovery Act (hereinafter referred as "ISRA"). ISRA compliance was again triggered in September 2002, due to the transfer of a partnership interest in H&R. As part of the ISRA compliance activities, all areas of potential environmental concern have been fully identified, investigated and addressed in accordance with the applicable requirements of the New Jersey Department of Environmental Protection ("NJDEP"). In fact, NJDEP has issued No Further Action determinations for almost all of the areas of concern, and the remaining areas of concern are currently being reviewed by NJDEP for case closeout. The remedial actions conducted at the Site to date confirm that there has been no impact from this Site. In fact, there is not now, nor has there ever been, a release to the Berry Creek Study Area as defined in the Information Request.

A voluminous amount of documentation was produced in connection with the 1995 and 2002 ISRA filings with regard to the ownership and operational history of the Site, as well as the investigation and remedial actions undertaken. In order to provide a concise and complete response to the Information Request, H&R is providing you with copies of the following documents:

1. Preliminary Assessment Report dated May 1, 1995, submitted to the NJDEP under ISRA Case No. E95108 ("1995PAR");

2. Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998, prepared by Baker Environmental, Inc. ("1998 RI/RAR");

3. May 6, 2000 response to comment on Site Assessment Report prepared by Baker Environmental, Inc. ("2000 Response Letter");

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5. Remedial Investigation Report/Remedial Action Workplan dated January 16, 2002, prepared by ELM ("2000 RIR/RAW").

Together these documents are referred to as the "Response Documents". H&R believes that this response, along with the Response Documents, fully addresses the Information Request, and establishes that H&R is not in any way responsible for the release or threat of release of hazardous substances, pollutants and contaminants in or effecting the Berry's Creek Study Area.

To the contrary, the investigation and remediation conducted at the Site to date confirm that releases at the Site have been addressed and have had no off-site impact.

RESPONSE

H&R offers the following response to the Information Request:

1. a) Haarmann & Reimer, a New Jersey Partnership, 300 North Street, Teterboro, NJ 07608;

   b) A New Jersey General Partnership;

   c) Knut Rossbach, Chief Executive Officer and President; 300 North Street, Teterboro, NJ 07608;

   d) ISIS Holding, Inc., a Delaware Corporation, holds 51% of the ownership interest in H & R. Florasynth, Inc., the holder of the remaining 49% partnership interest in H & R, is a wholly owned subsidiary of ISIS Holding, Inc. Dr. Martin Wolf is the President and Secretary of ISIS Holding, Inc.

   e) On September 4, 2002, ISIS Holding, Inc. was incorporated in the State of Delaware. The agent for service is National Registered Agents Inc., 9 East Lockerman Street, Dover, Delaware, 19901.

   f) In or about 1997, H&R is a successor to certain of the assets of Florasynth, Inc. See information provided under "1e" above.

2. H&R owns or leases three properties on North Street in Teterboro, NJ. The properties are as follows:

   a) Since on or about October 31, 1997, H&R has leased the premises at 120 North Street, Teterboro, NJ, Block 307, formerly known as 5; Lot 12, formerly known as 46.

   b) Since 1999, H&R has owned and operated the premises located at 350 North Street, Teterboro, Bergen County, NJ, Block 303, Lot 11.

c) Since 1995, H&R has owned and operated the premises located at 300 North Street, Teterboro, Bergen County, NJ, Block 303, Lot 11. Prior to that date, this facility was owned and operated by Florasynth, Inc.

3. From 1995 to the present, H&R has used the Site for the development and mixing/blending of fragrances and flavors. See 2002 PAR, Appendix II for a complete description of operations at the Site.

4 and 5. As set forth in the 1995 PAR and the 2002 PAR, H&R has owned and operated the Site since 1995. From 1975 through 1995, Florasynth, Inc. owned and operated the Site. From 1950 to 1975, the Site was owned and operated by Julian Weis Winery and used for winery operations and bottling.

6. H&R is unaware of any entity known as H&R Florasynth. This was a trade name used by H&R. Furthermore, there is currently no relationship between Bayer Corporation and Florasynth, Inc. In 1995, Bayer Corporation acquired the shares of Florasynth, Inc. In or about 1997, certain assets of Florasynth, Inc. and certain assets of H & R Corporation were transferred to H&R. Florasynth, Inc. received a 49% ownership interest and H&R Corporation received a 51% ownership interest in H&R. In September 2002, H&R Corporation's 51% partnership interest in H&R was transferred to ISIS Holding, Inc.

7. a-d. As set forth above, H&R has used the Site for the blending, mixing and development of fragrances and flavors. See Appendix II of the 2002 PAR for a complete description of the operations.

8. H&R has not ceased operations at the Site.

9, 11 and 12. With regard to the hazardous wastes and substances generated, stored and disposed of from the Site, see the Hazardous Substance/Waste descriptions contained in Appendix II of the 2002 PAR and Attachment 1 of the 1995 PAR. These documents describe in detail hazardous materials stored at the Site, their locations, as well as waste generated at the Site. As confirmed by ELM's most recent inspection of the Site, all materials are properly handled and stored at the Site.

10. With regard to all federal, state and local environmental permits, see page 11 of the 2002 PAR. With regard prior permits, see page 7 and 8 of the 1995 PAR.

13. With regard to the disposal of sanitary and/or industrial wastes, as set forth in both the 2002 PAR and the 1995 PAR, sanitary sewer/industrial wastes are currently and have always been discharged to the Bergen County Utilities Authority Treatment Works under

Industrial Waste Discharge Permit, which is renewed annually. No industrial or sanitary sludges are generated. All solid waste is transported off-site to a municipal landfill. Lab-Pack waste composed of waste solvent mixtures (370 gallons in 1994) were transported by Haz Mat Environmental Group, Inc. (EPA ID No. NYD980769947) and TRI-S, Inc. (EPA ID No. CTD016424210) for disposal by Northeast Environmental Services (EPA ID No. NYD057770109). As confirmed by ELM, hazardous materials not used up in production are shipped to a certified disposal facility.

14. The person in charge of determining how hazardous substances and waste are handled with regard to the Site is the H&R Manager for Health, Safety and the Environment. Currently that position is held by James Przyborowski. Mr. Przyborowski's address is H&R, 300 North Street, Teterboro, NJ 07608.

15 and 16. As discussed above, H&R has been undergoing compliance with ISRA under case No. E95108. As part of its compliance actions, all areas of environmental concern at the Site have been investigated. Certain of the areas required further investigation and some remedial activities. As summarized in the 2002 PAR, there were 15 areas of concern previously identified as part of the ISRA Case No. E95108 which have received No Further Action Approvals from the NJDEP. The remaining areas of concern are currently awaiting No Further Action Approvals from the NJDEP. The remaining five areas will be addressed through a deed notice and/or Classification Exemption Area. Appendices IV, V and VI of the 2002 PAR discusses each area of concern, and the remedial actions taken to obtain No Further Action Approvals for the 15 AOCs. Historical data results for the five remaining areas of concern are discussed in the 1998 RI/RAR, the 2000 Response Letter and the 2002 RIR/RAW. A Summary prepared by ELM is attached to this response. As confirmed by the Response Documents, the investigation and remedial actions conducted at the Site confirm that H&R has not leaked, spilled or released any hazardous substances, pollutants or contaminants to the Berry's Creek Study Area.

17. See attached Request for Information Regarding Chemical Releases to the Berry Creek Study Area - page 5 completed by Mark Fisher and Karen Pollack of ELM.

18 and 19. H&R does not treat any of its customers' Industrial Waste at the Site. As set forth above and in the Response Documents, H&R's operations at the Site consist of fragrance and favor production, staging and associated administrative functions. Fragrance blending operations consist of blending alcohol, fragrance and water. The products are then containerized and subsequently shipped to vendors.

20. H&R has no additional information with regard to other companies or associates that send Industrial Waste to the Berry's Creek Study Area.

21. Gary Blair, H&R Vice President of Compliance Technical Services, Dr. Nicholas Scarpa, Director of Regulatory Affairs, Karen Pollack, Associate Project Manager for ELM, Mark D. Fisher, CHMM, Principal for ELM.

22. See response to each specific question set forth above.

If you have any questions, or request further information with regard to H&R's response to this Information Request, please contact us.

Very truly yours,

Haarmann & Reimer

By: Knut Rossbach

cc: Clay Monroe, Assistant Regional Counsel
Office of Regional Counsel
290 Broadway , 17th Floor
New York, NY 10007-1866

H&R

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of New Jersey

County of Bergen

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of find and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

Knut Rossbach
NAME

Chief Executive Officer and President
TITLE

Knut Rossbach
SIGNATURE

Sworn to before me this
18th day of Dec. , 2002.

Candace L. Powell

§ 104 (e) Information Request
Response to Question 16

The response to this question is provided using the information obtained from the environmental investigation and remediation activities completed at the property to comply with the provisions of the New Jersey Industrial Site Recovery Act (ISRA), N.J.A.C. 7:26B *et seq*. These activities were initiated by the former owner/operator of the site (Florasynth, Inc.), and are now being addressed by Haarmann & Reimer. The following information summarizes the areas of concern (AOCs) investigated at the site in accordance with NJDEP requirements. As summarized below, the results of the remedial activities at the site indicate that none of the investigated AOCs have resulted in any leaks, spills or releases of any hazardous substances, pollutants or contaminants to the Berry's Creek Study Area. Detailed information regarding each of the below items is included in the documentation/reports being provided in the response to EPA's Request for Information.

AOC #1: Stressed Vegetation
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #1 in correspondence dated June 17, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #2: Small Vent Pipes
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #2 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #3: Cut Pipe
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #3 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #4: White Pipe
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #4 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #5: Manhole
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #5 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #6: 8,000-gallon Alcohol UST No. 1
The 8,000-gallon Alcohol UST was removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #6 in correspondence dated March 23, 1998. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #7: Ethyl Alcohol UST No. 2

The Ethyl Alcohol UST was removed. Based upon the site-specific data/investigation, the NJDEP approved No Further Action for AOC #7 in correspondence dated March 23, 1998. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #8: Abandoned 20,000-gallon No. 4 Fuel Oil UST

The 20,000-gallon No. 4 Fuel Oil UST and soil containing petroleum residuals were removed. Based upon the results of post-excavation soil samples, no additional investigation of soil was required by NJDEP. Residual petroleum-related compounds detected in three post-excavation soil samples above applicable NJDEP remediation standards (e.g., located within the building interior, beneath a concrete floor) will be addressed via engineering and institutional controls. Based upon the site-specific data, no adverse impact to the Berry's Creek Study Area is associated with the soil at this AOC.

Information regarding the ground water investigation at AOC #8 is addressed as AOC #16 (see below).

AOC #9: Former 10,000-gallon No. 2 Fuel Oil UST

The 10,000-gallon No. 2 Fuel Oil UST and soil containing petroleum residuals were removed. No compounds were detected in the post-excavation soil samples above applicable NJDEP remediation standards. The NJDEP approved No Further Action for AOC #9 in correspondence dated March 14, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #10a: Spill Containment UST (Rear)

The Spill Containment UST (Rear) and soil containing petroleum residuals were removed. Following the collection of post-excavation soil samples, additional soil samples were collected for delineation at AOC #10a. Based on the information collected, a ground water investigation was not required pursuant to the NJDEP correspondence dated April 23, 2001. Residual arsenic and base neutral compounds detected in two soil samples above NJDEP remediation standards will be addressed via engineering and institutional controls. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #10b: Spill Containment UST (Loading Dock)

The Spill Containment UST (Loading Dock) and soil containing petroleum residuals were removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #10b in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #10c: Spill Containment UST (Northeast)

The Spill Containment UST (Northeast) and soil containing petroleum residuals were removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #10c in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #11: Storage Area (Exterior)

An environmental investigation, including the collection of soil samples, was completed at AOC #11. A ground water investigation was not required pursuant to the NJDEP correspondence dated April 23, 2001. Residual base neutral compounds detected in three shallow soil samples will be addressed via engineering and institutional controls. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #12: Former Electrical Transformers

An environmental investigation, including the collection of a soil sample, was completed at AOC #12. Polychlorinated bi-phenyl (PCB) compounds detected in the soil sample were subsequently excavated during remedial activities. The NJDEP approved No Further Action for AOC #12 in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #13: Asbestos

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #13 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #14: Fill Material

Non-indigenous fill material identified during the Site Investigation phase of the project was investigated, delineated and remediated as part of remedial activities associated with other AOCs (i.e., via soil excavation). NJDEP granted No Further Action with regard to AOC #14 in correspondence dated March 14, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #15: Production/Reinjection Well

The on-site production and reinjection/dispersion wells were installed for non-contact cooling and processing operations, but have never been used. Both wells are capped and locked to prevent unauthorized access. The NJDEP granted No Further Action for AOC #15 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #16: Ground Water

This AOC pertains to ground water in the area of the former 20,000-gallon fuel oil UST (AOC #8). Volatile organic compounds initially detected in ground water during the Site Investigation phase were later addressed via source removal activities (i.e., soil excavation). One chemical constituent, methylene chloride, was detected above applicable NJDEP remediation standards during a September 2001 investigation. The presence of the residual methylene chloride compound is limited to the former UST excavation area on the property; no compounds were detected above applicable NJDEP remediation standards in ground water samples collected immediately outside the former excavation area. As per the January 16, 2002 RIR/RAW, it is proposed that the remaining residuals in ground water identified during the recent (i.e., September 2001) remedial activities be addressed via natural attenuation. Based upon the results of the ground water investigation completed at this site, there is no potential for any adverse impact to the Berry's Creek Study Area associated the ground water beneath the site.

AOC #17: Potwash Area

A series of three remedial soil excavations was completed to address residual petroleum compounds detected in pre-excavation soil borings. Following the collection of post-excavation soil samples, no additional investigation of soil was required by the NJDEP. Based on the data collected, residual volatile organic compounds and base neutral compounds detected above applicable NJDEP remediation standards in two post-excavation soil samples (e.g., located within the building interior, beneath a concrete floor). With regard to ground water at AOC #17, compounds of concern were not detected above applicable standards during the ground water investigation completed for this AOC. Pending approval of the NJDEP, no further action/investigation with regard to soil or ground water at AOC #17 will likely be required. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #18: Motor Fuel USTs

Four USTs were removed - two 3000-gallon UST, one 1500-gallon UST, and one 2000-gallon UST. Soil containing petroleum residuals was also removed as part of the UST removal activities. No compounds were detected above the applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for this AOC in correspondence dated April 23, 2001. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

Request for Information Regarding Chemical Releases to the Berry's Creek Study Area

* * *

Instructions: As instructed in Question 17, please complete this form by marking the appropriate spaces. Indicate whether each of the chemicals listed has ever been released from the Site to the Berry's Creek Study Area, including creeks, ditches, or other water bodies, or wetlands. Follow additional instructions below. Return the completed form along with your other responses to the Request for Information in the Matter of the Berry's Creek Study Area, Bergen County, New Jersey. N/A signifies no information available.

	Yes	No	N/A
acenaphthene		X	
acenapthylene		X	
anthracene		X	
aluminum		X	
antimony		X	
arsenic		X	
benz(a)anthracene		X	
benzene		X	
benzo(a)pyrene		X	
benzo(b)fluoranthene		X	
benzo(g,h,i)perylene		X	
benzo(k)fluoranthene		X	
bis(2-ethylhexyl)phthalate		X	
butyl benzyl phthalate		X	
cadmium		X	
chlorinated dibenzo-p-dioxins (if "yes", please list specific dioxin compounds on a separate sheet)		X	
chlorinated dibenzofurans (if "yes", please list specific compounds on a separate sheet)		X	
chlorobenzene		X	
chloroform		X	
chromium		X	
chrysene		X	
copper		X	
cyanide		X	
dibenz(a,h)anthracene		X	
dichlorobenzene		X	
1,2-dichloroethene		X	
di-n-butyl phthalate		X	
1,2-dichlorobenzene		X	
1,2-dichloroethane		X	
dieldrin		X	
di-n-octyl phthalate		X	
ethylbenzene		X	
fluoranthene		X	

	Yes	No	N/A
fluorene		X	
hexachlorobenzene		X	
indeno(1,2,3-cd)pyrene		X	
lead		X	
manganese		X	
mercury		X	
methylene chloride		X	
methyl ethyl ketone		X	
methyl mercury		X	
2-methylnaphthalene		X	
naphthalene		X	
nickel		X	
pentachlorophenol		X	
petroleum hydrocarbons		X	
phenanthrene		X	
phenol		X	
polychlorinated biphenyls (if "yes" please list specific congeners and aroclors on a separate sheet)		X	
polycyclic aromatic hydrocarbons (if "yes", please list specific compounds on a separate sheet if not listed on this page)		X	
pyrene		X	
selenium		X	
silver		X	
1,1,2,2-tetrachloroethane		X	
tetrachloroethylene		X	
thallium		X	
toluene		X	
1,2-trans dichloroethylene		X	
1,1,1-trichloroethane		X	
trichloroethylene		X	
vinyl chloride		X	
xylene		X	
zinc		X	

Mark D. Fisher
Name of person completing form

ELM, Inc.
Company

Haarmann & Reimer
Site (as defined in the "Instructions")

McElroy, Deutsch & Mulvaney, LLP

1300 Mount Kemble Avenue, Box 2075
Morristown, New Jersey 07962-2075
973-993-8100—telephone
973-425-0161—facsimile

RECEIVED 12/14/02

Fax

To: Seth Ausubel, Remedial Project Manager
United States Environmental Protection Agency
Region II

From: Heidi S. Minuskin, Esq.

Fax: 212-637-4429 **Pages:** 14

Phone 212-637-4976 **Date:** December 18, 2002

Re: Response to § 104(c) Information Request
Recipient: Haarmann & Reimer
Superfund Site: Berry's Creek Study Area
Bergen County, New Jersey

CC:

MESSAGE:

File No. F0125-1020

☐ **Urgent** X **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Hard Copy to Follow**

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS INTENDED ONLY FOR THE PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENTS NAMED ABOVE. This message may be an attorney-client communication, and as such is privileged and confidential. If the reader of this message is not the intended recipient or any agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us by mail. Thank you.

H&R

Haarmann & Reimer
300 North Street
Teterboro, NJ 07608

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3. From 1995 to the present, H&R has used the Site for the development and mixing/blending of fragrances and flavors. See 2002 PAR, Appendix II for a complete description of operations at the Site.

4 and 5. As set forth in the 1995 PAR and the 2002 PAR, H&R has owned and operated the Site since 1995. From 1975 through 1995, Florasynth, Inc. owned and operated the Site. From 1950 to 1975, the Site was owned and operated by Julian Weis Winery and used for winery operations and bottling.

6. H&R is unaware of any entity known as H&R Florasynth. This was a trade name used by H&R. Furthermore, there is currently no relationship between Bayer Corporation and Florasynth, Inc. In 1995, Bayer Corporation acquired the shares of Florasynth, Inc. In or about 1997, certain assets of Florasynth, Inc. and certain assets of H & R Corporation were transferred to H&R. Florasynth, Inc. received a 49% ownership interest and H&R Corporation received a 51% ownership interest in H&R. In September 2002, H&R Corporation's 51% partnership interest in H&R was transferred to ISIS Holding, Inc.

7. a-d. As set forth above, H&R has used the Site for the blending, mixing and development of fragrances and flavors. See Appendix II of the 2002 PAR for a complete description of the operations.

8. H&R has not ceased operations at the Site.

9, 11 and 12. With regard to the hazardous wastes and substances generated, stored and disposed of from the Site, see the Hazardous Substance/Waste descriptions contained in Appendix II of the 2002 PAR and Attachment 1 of the 1995 PAR. These documents describe in detail hazardous materials stored at the Site, their locations, as well as waste generated at the Site. As confirmed by ELM's most recent inspection of the Site, all materials are properly handled and stored at the Site.

10. With regard to all federal, state and local environmental permits, see page 11 of the 2002 PAR. With regard prior permits, see page 7 and 8 of the 1995 PAR.

13. With regard to the disposal of sanitary and/or industrial wastes, as set forth in both the 2002 PAR and the 1995 PAR, sanitary sewer/industrial wastes are currently and have always been discharged to the Bergen County Utilities Authority Treatment Works under

H&R

Industrial Waste Discharge Permit, which is renewed annually. No industrial or sanitary sludges are generated. All solid waste is transported off-site to a municipal landfill. Lab-Pack waste composed of waste solvent mixtures (370 gallons in 1994) were transported by Haz Mat Environmental Group, Inc. (EPA ID No. NYD980769947) and TRI-S, Inc. (EPA ID No. CTD016424210) for disposal by Northeast Environmental Services (EPA ID No. NYD057770109). As confirmed by ELM, hazardous materials not used up in production are shipped to a certified disposal facility.

14. The person in charge of determining how hazardous substances and waste are handled with regard to the Site is the H&R Manager for Health, Safety and the Environment. Currently that position is held by James Przyborowski. Mr. Przyborowski's address is H&R, 300 North Street, Teterboro, NJ 07608.

15 and 16. As discussed above, H&R has been undergoing compliance with ISRA under case No. E95108. As part of its compliance actions, all areas of environmental concern at the Site have been investigated. Certain of the areas required further investigation and some remedial activities. As summarized in the 2002 PAR, there were 15 areas of concern previously identified as part of the ISRA Case No. E95108 which have received No Further Action Approvals from the NJDEP. The remaining areas of concern are currently awaiting No Further Action Approvals from the NJDEP. The remaining five areas will be addressed through a deed notice and/or Classification Exemption Area. Appendices IV, V and VI of the 2002 PAR discusses each area of concern, and the remedial actions taken to obtain No Further Action Approvals for the 15 AOCs. Historical data results for the five remaining areas of concern are discussed in the 1998 RI/RAR, the 2000 Response Letter and the 2002 RIR/RAW. A Summary prepared by ELM is attached to this response. As confirmed by the Response Documents, the investigation and remedial actions conducted at the Site confirm that H&R has not leaked, spilled or released any hazardous substances, pollutants or contaminants to the Berry's Creek Study Area.

17. See attached Request for Information Regarding Chemical Releases to the Berry Creek Study Area - page 5 completed by Mark Fisher and Karen Pollack of ELM.

18 and 19. H&R does not treat any of its customers' Industrial Waste at the Site. As set forth above and in the Response Documents, H&R's operations at the Site consist of fragrance and favor production, staging and associated administrative functions. Fragrance blending operations consist of blending alcohol, fragrance and water. The products are then containerized and subsequently shipped to vendors.

20. H&R has no additional information with regard to other companies or associates that send Industrial Waste to the Berry's Creek Study Area.

H&R

21. Gary Blair, H&R Vice President of Compliance Technical Services, Dr. Nicholas Scarpa, Director of Regulatory Affairs, Karen Pollack, Associate Project Manager for ELM, Mark D. Fisher, CHMM, Principal for ELM.

22. See response to each specific question set forth above.

H&R

If you have any questions, or request further information with regard to H&R's response to this Information Request, please contact us.

Very truly yours,

Haarmann & Reimer

By: Knut Rossbach

cc: Clay Monroe, Assistant Regional Counsel
Office of Regional Counsel
290 Broadway, 17th Floor
New York, NY 10007-1866

H&R

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of New Jersey

County of Bergen

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of find and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

Knut Rossbach
NAME

Chief Executive Officer and President
TITLE

Knut Rossbach
SIGNATURE

Sworn to before me this
18th day of Dec., 2002.

Christine L. Bowell

H&R

Haarmann & Reimer

§ 104 (e) Information Request

Response to Question 16

The response to this question is provided using the information obtained from the environmental investigation and remediation activities completed at the property to comply with the provisions of the New Jersey Industrial Site Recovery Act (ISRA), N.J.A.C. 7:26B *et seq.* These activities were initiated by the former owner/operator of the site (Florasynth, Inc.), and are now being addressed by Haarmann & Reimer. The following information summarizes the areas of concern (AOCs) investigated at the site in accordance with NJDEP requirements. As summarized below, the results of the remedial activities at the site indicate that none of the investigated AOCs have resulted in any leaks, spills or releases of any hazardous substances, pollutants or contaminants to the Berry's Creek Study Area. Detailed information regarding each of the below items is included in the documentation/reports being provided in the response to EPA's Request for Information.

AOC #1: Stressed Vegetation

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #1 in correspondence dated June 17, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #2: Small Vent Pipes

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #2 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #3: Cut Pipe

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #3 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #4: White Pipe

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #4 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #5: Manhole

Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #5 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #6: 8,000-gallon Alcohol UST No. 1

The 8,000-gallon Alcohol UST was removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #6 in correspondence dated March 23, 1998. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

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AOC #7: Ethyl Alcohol UST No. 2
The Ethyl Alcohol UST was removed. Based upon the site-specific data/investigation, the NJDEP approved No Further Action for AOC #7 in correspondence dated March 23, 1998. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #8: Abandoned 20,000-gallon No. 4 Fuel Oil UST
The 20,000-gallon No. 4 Fuel Oil UST and soil containing petroleum residuals were removed. Based upon the results of post-excavation soil samples, no additional investigation of soil was required by NJDEP. Residual petroleum-related compounds detected in three post-excavation soil samples above applicable NJDEP remediation standards (e.g., located within the building interior, beneath a concrete floor) will be addressed via engineering and institutional controls. Based upon the site-specific data, no adverse impact to the Berry's Creek Study Area is associated with the soil at this AOC.

Information regarding the ground water investigation at AOC #8 is addressed as AOC #16 (see below).

AOC #9: Former 10,000-gallon No. 2 Fuel Oil UST
The 10,000-gallon No. 2 Fuel Oil UST and soil containing petroleum residuals were removed. No compounds were detected in the post-excavation soil samples above applicable NJDEP remediation standards. The NJDEP approved No Further Action for AOC #9 in correspondence dated March 14, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #10a: Spill Containment UST (Rear)
The Spill Containment UST (Rear) and soil containing petroleum residuals were removed. Following the collection of post-excavation soil samples, additional soil samples were collected for delineation at AOC #10a. Based on the information collected, a ground water investigation was not required pursuant to the NJDEP correspondence dated April 23, 2001. Residual arsenic and base neutral compounds detected in two soil samples above NJDEP remediation standards will be addressed via engineering and institutional controls. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #10b: Spill Containment UST (Loading Dock)
The Spill Containment UST (Loading Dock) and soil containing petroleum residuals were removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #10b in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #10c: Spill Containment UST (Northeast)
The Spill Containment UST (Northeast) and soil containing petroleum residuals were removed. No compounds were detected above applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for AOC #10c in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #11: Storage Area (Exterior)
An environmental investigation, including the collection of soil samples, was completed at AOC #11. A ground water investigation was not required pursuant to the NJDEP correspondence dated April 23, 2001. Residual base neutral compounds detected in three shallow soil samples will be addressed via engineering and institutional controls. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

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AOC #12: Former Electrical Transformers
An environmental investigation, including the collection of a soil sample, was completed at AOC #12. Polychlorinated bi-phenyl (PCB) compounds detected in the soil sample were subsequently excavated during remedial activities. The NJDEP approved No Further Action for AOC #12 in correspondence dated April 23, 2001. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

AOC #13: Asbestos
Based upon site-specific data/information, the NJDEP granted No Further Action for AOC #13 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #14: Fill Material
Non-indigenous fill material identified during the Site Investigation phase of the project was investigated, delineated and remediated as part of remedial activities associated with other AOCs (i.e., via soil excavation). NJDEP granted No Further Action with regard to AOC #14 in correspondence dated March 14, 1997. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #15: Production/Reinjection Well
The on-site production and reinjection/dispersion wells were installed for non-contact cooling and processing operations, but have never been used. Both wells are capped and locked to prevent unauthorized access. The NJDEP granted No Further Action for AOC #15 in correspondence dated December 13, 1996. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

AOC #16: Ground Water
This AOC pertains to ground water in the area of the former 20,000-gallon fuel oil UST (AOC #8). Volatile organic compounds initially detected in ground water during the Site Investigation phase were later addressed via source removal activities (i.e., soil excavation). One chemical constituent, methylene chloride, was detected above applicable NJDEP remediation standards during a September 2001 investigation. The presence of the residual methylene chloride compound is limited to the former UST excavation area on the property; no compounds were detected above applicable NJDEP remediation standards in ground water samples collected immediately outside the former excavation area. As per the January 16, 2002 RIR/RAW, it is proposed that the remaining residuals in ground water identified during the recent (i.e., September 2001) remedial activities be addressed via natural attenuation. Based upon the results of the ground water investigation completed at this site, there is no potential for any adverse impact to the Berry's Creek Study Area associated the ground water beneath the site.

AOC #17: Potwash Area
A series of three remedial soil excavations was completed to address residual petroleum compounds detected in pre-excavation soil borings. Following the collection of post-excavation soil samples, no additional investigation of soil was required by the NJDEP. Based on the data collected, residual volatile organic compounds and base neutral compounds detected above applicable NJDEP remediation standards in two post-excavation soil samples (e.g., located within the building interior, beneath a concrete floor). With regard to ground water at AOC #17, compounds of concern were not detected above applicable standards during the ground water investigation completed for this AOC. Pending approval of the NJDEP, no further action/investigation with regard to soil or ground water at AOC #17 will likely be required. Based on this information, no adverse impact to the Berry's Creek Study is associated with this AOC.

H&R

AOC #18: Motor Fuel USTs

Four USTs were removed - two 3000-gallon UST, one 1500-gallon UST, and one 2000-gallon UST. Soil containing petroleum residuals was also removed as part of the UST removal activities. No compounds were detected above the applicable NJDEP remediation standards in the post-excavation soil samples. The NJDEP approved No Further Action for this AOC in correspondence dated April 23, 2001. Accordingly, no adverse impact to the Berry's Creek Study Area is associated with this AOC.

Request for Information Regarding Chemical Releases to the Berry's Creek Study Area

* * *

Instructions: As instructed in Question 17, please complete this form by marking the appropriate spaces. Indicate whether each of the chemicals listed has ever been released from the Site to the Berry's Creek Study Area, including creeks, ditches, or other water bodies, or wetlands. Follow additional instructions below. Return the completed form along with your other responses to the Request for Information in the Matter of the Berry's Creek Study Area, Bergen County, New Jersey. N/A signifies no information available.

	Yes	No	N/A
acenaphthene		X	
acenaphthylene			
anthracene		X	
aluminum			
antimony		X	
arsenic			
benz(a)anthracene		X	
benzene			
benzo(a)pyrene		X	
benzo(b)fluoranthene			
benzo(g,h,i)perylene		X	
benzo(k)fluoranthene			
bis(2-ethylhexyl)phthalate		X	
butyl benzyl phthalate			
cadmium		X	
chlorinated dibenzo-p-dioxins (if "yes", please list specific dioxin compounds on a separate sheet)			
chlorinated dibenzofurans (if "yes", please list specific compounds on a separate sheet)		X	
chlorobenzene			
chloroform		X	
chromium			
chrysene		X	
copper			
cyanide		X	
dibenz(a,h)anthracene			
dichlorobenzene		X	
1,2-dichloroethene			
di-n-butyl phthalate		X	
1,2-dichlorobenzene			
1,2-dichloroethane		X	
dieldrin			
di-n-octyl phthalate		X	
ethylbenzene			
fluoranthene		X	

	Yes	No	N/A
fluorene		X	
hexachlorobenzene			
indeno(1,2,3-cd)pyrene		X	
lead			
manganese		X	
mercury			
methylene chloride		X	
methyl ethyl ketone			
methyl mercury		X	
2-methylnaphthalene			
naphthalene		X	
nickel			
pentachlorophenol		X	
petroleum hydrocarbons			
phenanthrene		X	
phenol			
polychlorinated biphenyls (if "yes" please list specific congeners and aroclors on a separate sheet)		X	
polycyclic aromatic hydrocarbons (if "yes", please list specific compounds on a separate sheet if not listed on this page)			
pyrene		X	
selenium			
silver		X	
1,1,2,2-tetrachloroethane			
tetrachloroethylene		X	
thallium			
toluene		X	
1,2-trans dichloroethylene			
1,1,1-trichloroethane		X	
trichloroethylene			
vinyl chloride		X	
xylene		X	
zinc		X	

Mark D. Fisher
Name of person completing form

ELM, Inc.
Company

Hartmann & Reimer
Site (as defined in the "Instructions")

File 202155-PAR
300 North St. Teterboro

4/98

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
P.O. BOX 435, TRENTON, NJ 08625-0435

PRELIMINARY ASSESSMENT REPORT

Answer all questions. Should you encounter any problems in completing this form, we recommend that you discuss the matter with a representative from the Site Remediation Program. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction.

PLEASE PRINT OR TYPE

Date August 22, 2002

Industrial Establishment/Site Name Haarmann & Reimer, a NJ Partnership

Address 300 North Street

City or Town Teterboro Zip Code 07608

Municipality Teterboro County Bergen

Block(s) 303 Lot(s) 11

Site Remediation Program Case Number or EPA Identification Number ISRA #E95108
EPA ID #NJD070570122

1. Present a history of ownership and operations at the industrial establishment, in tabular form, from the time the site was naturally vegetated or utilized as farmland in accordance with N.J.A.C. 7:26E-3.1(c)1.i. (attach additional sheets as necessary)

Name of Property Owner	From	To
Haarmann & Reimer	1995	Present
Florasynth, Inc.	1975	1995
Julian Weis Winery	1950	1975

Name of Operator	From	To
Haarmann & Reimer	1995	Present
Florasynth, Inc.	1975	1995
Julian Weis Winery	1950	1975

Revision No:
Revision Date:

2A. In accordance with N.J.A.C. 7:26E-3.1(c)1.ii, provide a clear and concise description of the past industrial/commercial operation(s) conducted on site by each owner and operator. To the extent available the site history shall include an evaluation of the following sources of information:

(1) Sanborn Fire Insurance Maps; (2) MacRae's Industrial Directory; (3) Title and Deed; (4) Site plans and facility as-built drawings; (5) federal, state, county and local government files; (6) The Department Geographic Information System; (7) and any additional sources which may be available for a specific site.

Site history is frequently an item where preliminary assessments are incomplete. The Industrial Site Recovery Act requires that a diligent inquiry be made, researching the site history back to January 1, 1932. Common answers to this question have included: "Unknown", or "We are only a tenant on the site and have no knowledge of prior site history". Neither of these answers satisfies the requirement for a due diligent inquiry.

To avoid having a PA found incomplete by the Department due to insufficient information, the site history must be researched. The following are ways of obtaining information regarding site history: title searches; contacting the local and county health officials and municipal agencies (for example, local fire and police departments, and local planning, zoning, adjustment boards) requesting any information these public agencies may have on the specific location; and, interviewing long time neighbors of the industrial establishment. Tenants should always request information from the landlord. The applicant should always document any attempts to locate this information to support a claim that a diligent inquiry has been conducted. If the prior site history demonstrates that the current building was built on vacant unimproved property, it should be reported as such. If the site has been, or is now the subject of a site remediation, any prior cases should always be referenced.

Provide the page or appendix number where the site history may be found. **See Appendix 1**

Provide a listing of the resources utilized to compile the site history and as appropriate copies of any maps or information, which will assist the Department in evaluating your conclusions.

Name of Resource	Date of document reviewed	Appendix # if providing copies
Remedial Investigation Report/Remedial Action Workplan (Prepared by Environmental Liability Management, Inc.)	January 16, 2002	----
Remediation Agreement [Report] in the Matter of Florasynth, Inc. (Prepared by Baker Environmental, Inc.)	March 6, 2000	----
Remedial Investigation/ Remedial Action/ Remedial Action Workplan (Prepared by Baker Environmental, Inc.)	December 4, 1998	----
Preliminary Assessment Report (Prepared by McLaren-Hart Environmental Engineering Corporation)	May 1, 1995	----
Assorted correspondences (including NJDEP) associated with ISRA Case #E95108 provided by Haarmann & Reimer	various	---

2B. Include a detailed description of the most recent operations subject to this preliminary assessment.

Provide the page or appendix # where the description of the most recent operations may be found.

See Appendix 2

Revision No: _____

Revision Date: _____

3. Hazardous Substance/Waste Inventory: N.J.A.C. 7;26E-3.1(c)1.iii. List all raw materials, finished-products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants, including intermediates and by-products that are or were historically present on the site. Note: If past usage included farming, pesticides may be a concern and should be included in this list. **(attach additional sheets if necessary).**

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
See Appendix 3			

4 A. In accordance with N.J.A.C. 7:26E-3.1(c)1iv provide a summary of all current and historic wastewater discharges of **Sanitary and/or Industrial Waste** and/or sanitary sludges. Present and past production processes, including dates, and their respective water use shall be identified and evaluated, including ultimate and potential discharge and disposal points and how and where materials are or were received on-site. All discharge and disposal points shall be clearly depicted on a scaled site map.

Information required under this item is intended to identify potential discharges to any on-site disposal system, such as a septic system or lagoon or drywell. As an example, a facility that currently discharges sanitary and other wastes to the public sewer system, but maintained an on-site septic system prior to 1976, would complete this item as follows:

Site Information

Discharge Period		Discharge Type	Discharge Location
From	To		
1950	Present	Sanitary Sewer/ Industrial Wastewater	Borough of Teterboro Sanitary Sewer System, which connects to the Bergen County Municipal Utility Authority

Revision No: _____

Revision Date: _____

4B. Provide a narrative of disposal processes for all historic and current process waste streams and disposal points. (attach additional sheets if necessary)

Municipal solid waste is transported offsite by a local waste disposal facility. Sanitary and industrial process waste is disposed of via the sanitary sewer system to the local POTW (NJPDES #NJ0114197, Bergen Co. Utility Authority Permit #01-0068). Hazardous materials not used up in production are shipped to a certified disposal facility.

5. This question requires the applicant to conduct a diligent inquiry into the current and historic operations at the site to identify all of the potential areas of concern, which formerly or currently exists at the industrial establishment as defined in N.J.A.C. 7:26E-1.8.

Diligent inquiry as defined in N.J.A.C.7:26E-1.8 states:

A. Conducting a diligent search of all documents which are reasonably likely to contain information related to the object of the inquiry, which documents are in such person's possession, custody or control, or in the possession, custody or control of any other person from whom the person conducting the search has a legal right to obtain such documents; and

B. Making reasonable inquiries of current and former employees and agents whose duties include or included any responsibility for hazardous substances, hazardous wastes, hazardous constituents, or pollutants, and any other current and former employees or agents who may have knowledge or documents relevant to the inquiry.

In accordance with N.J.A.C. 7:26E3.1(c)1.v., a narrative shall be provided for each area of environmental concern describing the **(A)** Type; **(B)** Age; **(C)** Dimensions of each container/area; **(D)** Chemical Content; **(E)** Volume; **(F)** Construction materials; **(G)** Location; **(H)** Integrity (i.e., tank test reports, description of drum storage pad); and **(I)** Inventory control records, unless a Department-approved leak detection system, pursuant to N.J.A.C. 7:1E or 7:14B, has always been in place and there is no discharge history. If sampling is not proposed for any identified area of environmental concern, please explain why it is believed that the area of environmental concern does not contain contaminants above the applicable remediation standards. Submit all necessary documentation to verify this belief. The required narrative need not describe the sampling to be completed; however, it should state that sampling will be completed in accordance with the appropriate section of N.J.A.C.7:26E. Detailed descriptions of all remediation activities shall be described in the site investigation report in accordance with N.J.A.C.7:26E-3.13. Note: If the industrial establishment has multiple locations for one type of area of concern (example: underground storage tanks are located in 3 separate areas of the facility), each area must be discussed separately.

Please indicate if any of the potential areas of environmental concern listed below in #5A through #5G, as defined in N.J.A.C. 7:26E-1.8, formerly or currently exist at the industrial establishment by indicating Yes or No in the appropriate space as provided.

For the Location Reference Keyed to Site Map, use either a number or letter identification and be consistent throughout each phase of the remediation, referring to the same identification provided herein.

Provide the required narrative as an appendix to this report. Do not try to provide a narrative in the space provided

I hereby certify that a diligent inquiry has been conducted to identify all current and historical potential areas of environmental concern and based on the diligent inquiry the areas of environmental concern identified below in question 5A through 5G are the only areas of environmental concern believed to exist at the above referenced industrial establishment.

Revision No: _____

Revision Date: _____

As presented below, there are no AOCs requiring any further investigation or remedial action other than the five former AOCs associated with ISRA Case #E955108 (see Appendices 5 and 6); a request for No Further Action for these five AOCs was included in the January 16, 2002 RIR/RAW.

A. Bulk Storage Tanks and Appurtenances, Including, without Limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Aboveground Storage Tanks and Associated Piping	Yes	A-1	4
Underground Storage Tanks and Associated Piping	Yes	A-2	4
Silos	No		
Rail Cars (former)	Yes	A-3	4
Loading and unloading areas	Yes	A-4	4
Piping, above ground and below ground pumping stations, sumps and pits	Yes	A-5	4

B. Storage and Staging Areas, including

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Storage pads including drum and/or waste storage	Yes	B-1	4
Surface impoundments and lagoons	No		
Dumpsters (non-hazardous waste)	Yes	B-2	4
Chemical storage cabinets or closets	Yes	B-3	4

C. Drainage systems and areas including without limitation

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Floor drains, trenches and piping and sumps	Yes	C-1	4
Process area sinks and piping which receive process waste	Yes	C-2	4
Roof leaders when process operations vent to the roof	Yes	C-3	4
Drainage swales & culverts	Yes	C-4	4
Storm sewer collection systems	Yes	C-5	4
Storm water detention ponds and fire ponds	No		
Surface water bodies	No		
Septic systems leach fields or seepage pits	No		
Drywells and sumps	No		

Revision No: _____

Revision Date: _____

D. Discharge and disposal areas, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Areas of discharge per N.J.A.C. 7:1E (former)	Yes	D-1	4
Waste piles as defined by N.J.A.C 7:26	No		
Waste water collection systems including septic systems, seepage pits, & dry wells.	No		
Landfills or landfarms	No		
Sprayfields	No		
Incinerators	No		
Historic Fill or any other Fill material	No		
Open Pipe discharges	No		

E. Other areas of concern, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Electrical Transformers & Capacitors	Yes	E-1	4
Hazardous material storage or handling areas	Yes	E-2	4
Waste Treatment areas	No		
Discolored or spill areas	No		
Open areas away from production areas	No		
Areas of stressed vegetation	No		
Underground piping including industrial process sewers	Yes	E-3	4
Compressor vent discharges	Yes	E-4	4
Non-contact cooling water discharges	Yes	E-5	4
Areas which receive flood or storm water from potentially contaminated areas	No	E-6	4
Active or Inactive production wells	Yes	E-7	4

Revision No: _____

Revision Date: _____

F. Building interior areas with a potential for discharge to the environment, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Loading or Transfer areas	Yes	F-1	4
Waste Treatment areas	No		
Boiler rooms	Yes	F-2	4
Air vents and ducts	Yes	F-3	4
Hazardous material storage or handling areas	Yes	F-4	4

G. Any other site-specific area of concern.

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Not applicable			

6. If the site area exceeds two acres, an interpretation of the aerial photographic history of the site shall be submitted in accordance with N.J.A.C. 7:26E-3.1(c)1.vi. The interpretation shall be based on available current and historical color, black and white and infrared aerial photographs (scale 1:18,000 or less) of the site and surrounding area at a frequency that provides the evaluator with a historical perspective of site activities. The photographic history shall date back to 1932 or the earliest photograph available. Aerial photographs are available for review at the New Jersey Department of Environmental Protection, Tidelands Management Program, Aerial Photo Library, 9 Ewing Street, Trenton, New Jersey, (609) 633-7369. Note, the applicant is not required to provide the Department with copies of the aerial photographs reviewed only an interpretation of what was observed in each photograph, which may represent an environmental concern.

_____ Check here if an aerial photo review was not complete and provide a reason.

_____

_____

Provide the appendix number for the air photo review narratives **See Attachment 1**

7. Discharge History of Hazardous Substances and Wastes, N.J.A.C. 7:26E-3.1(c)1vii :

A. Have there been any known discharges of hazardous substances and wastes at the site?

_____ No (Go to question #8) **X** Yes (Complete Items 7B & 7C)

Revision No: _____

Revision Date: _____

B. Was the Department notified of the discharge?

X Yes _____ No

If yes, provide the Case # **ISRA #E95108; see Appendix 1 for additional details.**

C. Was a no-further-action letter, negative-declaration approval or full-compliance letter issued as a result of the cleanup of this discharge?

_____ Yes (Submit a copy of the no-further-action approval)

X No (Submit a complete Site Investigation or Remedial Action Report documenting the action taken to address the discharge) **Most of the discharge areas have received NFA determination. See summary in Appendices 1, 5, 6. Also, January 16, 2002 RIR/ RAW.**

8. In accordance with N.J.A.C.7:26E-3.1 (c) 1.vii, provide a description of any remediation activities previously conducted or currently underway at the site, including dates of discharges, remedial actions taken, and all existing sample results concerning contaminants which remain at the site. Copies of Department or other governmental agency no-further-action approvals should also be provided with a description of the areas to which the no-further-action approvals apply. This information is especially important if the approval was granted for the remediation of a portion of a site or a specific discharge event rather than the entire site subject to this preliminary assessment.

_____ Check here if this question does not apply

Provide the appendix number for the required narrative and data summary **See summary in Appendices 1, 5, and 6. Also, see January 16, 2002 RIR/ RAW.**

9. Protectiveness of past remedies, Order of Magnitude Analysis, N.J.A.C. 7:26E-3.1(c) 1.ix & N.J.A.C. 7:26E, 3.2(a)5

A. Have any areas of concern previously received a No-Further-Action approval from the Department or other equivalent government agency for which no additional remediation is proposed?

_____ No (go to question #10). X Yes (complete 9B).

B. In accordance with N.J.S.A 58:10B-13(e) the following evaluation of the protectiveness of past remedies shall be completed for all areas of concern for which no further action was previously approved by the Department or other equivalent government agency and for which no additional remediation is proposed. All final sampling results shall be evaluated to determine if contaminant levels remaining on site are in compliance with current remediation criteria. The applicant shall complete the following:

Include a table comparing the levels of contaminants remaining in each area of concern; the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location, sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.

There are no AOCs requiring any further investigation or remedial action other than the five former AOCs associated with ISRA Case #E955108 (see Appendices 5 and 6); a request for No Further Action for these five AOCs was included in the January 16, 2002 RIR/RAW. Please refer to previously submitted reports for the historical data tables (i.e., January 16, 2002 RIR/RAW; March 6, 2000 Remediation Agreement Report; and, December 4, 1998 RI/RA/RAW).

Revision No: _____

Revision Date: _____

I hereby certify that the order of magnitude analysis required pursuant to N.J.A.C. 7:26E has been completed, since the issuance of a No-Further-Action approval, negative declaration approval or equivalent remediation approval; and (Check the appropriate statements (1), (2), (3) or (4))

(1) _____ The areas of concern listed below contain contaminants above the numerical remediation standard applicable at the time of the comparison, however no further action is required because: (check the appropriate sub statement)

_____ (a) The contaminant concentrations remaining in the areas of concern listed below are less than an order of magnitude (factor of 10) greater than the numerical remediation standard applicable at the time of the comparison;

_____ (b) The areas of concern or the site was remediated using engineering and institutional controls approved by the Department and these controls are still protective of public health, safety and the environment; or

_____ (c) The area of concern or the site was remediated to an approved site specific remediation standard and all of the factors and assumptions which are the basis for deriving the site specific remediation standard remain valid for the site.

Area of Concern	Location Reference Keyed to the Site Map
NA	

(2) _____ The areas of concern listed below contain contaminants above the numerical remediation standard applicable at the time of the comparison and further remediation is required because: (check the appropriate sub statement)

_____ (a) The contaminant concentrations remaining in the areas of concern listed below are more than an order of magnitude (factor of 10) greater than the numerical remediation standard applicable at the time of the comparison;

_____ (b) The areas of concern or the site was remediated using engineering and institutional controls approved by the Department and these controls are no longer protective of public health, safety and the environment; or

_____ (c) The area of concern or the site was remediated to an approved site specific remediation standard and some or all of the factors and assumptions which are the basis for deriving the site specific remediation standard are no longer valid.

Revision No: _____

Revision Date: _____

10 Historical Data on environmental quality at the Industrial Establishment

A. Have any previous sampling results documenting environmental quality of the Industrial Establishment not received a no further action approval from the Department or been denied approval by the Department? (N.J.A.C. 7:26E-3.1(c)1.viii)

X Yes (See Appendix # 6) _____ No (go to question #11).

Currently awaiting response from NJDEP regarding No Further Action proposals presented in the January 16, 2002 RIR/RAW for the five remaining Areas of Concern..

B. Have there been any known changes in site conditions or new information developed since completion of previous sampling or remediation? If sampling results were obtained, but are not part of this application, please explain below (N.J.A.C. 7:26E-3.1(c)xi):

NO

11 List all federal, state and local environmental permits at this facility, including permits for all previous and current owners or operators, applied for, received, or both (Attach additional sheets if necessary).

Check here if no permits are involved _____

A. New Jersey Air Pollution Control - * The subject property's Facility Identification Number is 00727.

Permit Number	Expiration Date	Type of Permitted Unit
PCP000001	9/29/05	Wisconsin Ovens (2 ovens, E-20 and E-21)
PCP960001	1/4/05	8,000-gallon fragrance tank (E-201, certificate #083597)
PCP960002	1/4/05	8,000-gallon flavors tank (E-301, certificate #083593))
PCP960006	3/11/05	Boiler, High Pressure Fulton (E-901, certificate #095372)
PCP960010	4/28/04	Fulton, Boiler Room Stack #2 (E-1301, certificate #116832)
PCP960011	4/28/04	Fulton, Boiler Room Stack #1 (E-1401, certificate #116833)
PCP990001	9/14/04	Fruit Filling (E-202, E-203, E-204, E-205, E-206, E-207, E-208, E-2001)
PCP990002	9/15/04	Flavors Blending (E-1, E-2, E-3, E-4, E-5, E-6)
PCP990003	3/10/05	Fragrance alcohol room; PT-2 (E-302), PT-3 (E-303), CT-1 (E-304), CT-2 (E-305), Totes (E-306), PT-1 (E-307)

B. Underground Storage Tank Registration Number #0228675

Size of Tank (Gallons)	Tank Contents
One 2,000-gallon UST (in place)	Emergency Spill Containment (for fragrance materials)
One 8,000-gallon UST (in place)	Ethyl alcohol (denatured, for fragrance operations)
One 8,000-gallon UST (in place)	Ethyl alcohol (food grade, for flavor operations)
One 10,000-gallon UST (former)	Heating Oil (No. 2)
One 20,000-gallon UST (former)	Heating Oil (No. 4)
One 8,000-gallon UST (former)	Ethyl alcohol (denatured, for fragrance operations)
Two 3,000-gallon UST (former)	Leaded gasoline
One 2,000-gallon UST (former)	Leaded gasoline
One 1,500-gallon UST (former)	Leaded gasoline
Three 400-gallon UST (former)	Emergency Spill Containment

Revision No: _____

Revision Date: _____

C. New Jersey Pollutant Discharge Elimination System (NJPDES) Permit

Permit Number	Discharge Type	Discharge Location Keyed to Site Map	Expiration Date
NJ0088315	General Permit for Stormwater Discharge (Facility Identification Number NJ0114197)	---	1/31/02*

* According to Mr. Douglas Speeney of NJDEP Bureau of Water Compliance and Enforcement (Northern Field Office, Parsippany, New Jersey), due to an internal error within the Bureau, the General Permits for Stormwater Discharge were not renewed. Mr. Speeney indicated that new renewal dates have been implemented and automatic renewal notices will be sent via mass mailing to those parties involved. As such, there is no violation or error on the part of H&R regarding this matter.

The subject property also holds an Industrial Wastewater Discharge Permit (#01-0068) from the Bergen County Utilities Authority Compliance Department. The type of permit is noncategorical, and the flow category is 10,000-24,999 gallons per day. The annual Permit was effective on September 1, 2001 and will expire on August 31, 2002. At the time of the site inspection, representatives from H&R indicated that the permit renewal form had been submitted for the period September 1, 2002 to August 31, 2003. Copies of the permit are included in Appendix 1.

D. Resource Conservation and Recovery Act (RCRA) permit # (Small Quantity Generator) NJD070570122

E. EPA Identification Number See above

F. In accordance with N.J.A.C. 7:26E-3.1(c) xii, list all other federal, state, local government environmental permits for all previous and current owners or operators applied for and/or received for the site including:

(1) Name and address of the permitting agency
(2) The reason for the permit
(3) The permit identification number
(4) The application date
(5) The date of approval, denial or status of the application
(6) The name and current address of the permittees
(7) The reason for the denial, revocation or suspension if applicable
(8) The permit expiration date

X Check here if no other environmental permits were applied for or received for this site.

Provide the appendix # for the required listing if other environmental permits exist for this site _____

Revision No: _____
Revision Date: _____

12. In accordance with N.J.A.C. 7:26E-3.1(c)xiii, provide a summary of enforcement actions (including but not limited to, Notice of Violations, Court Orders, official notices or directives) for violations of environmental laws or regulations (attach additional sheets if necessary):

A. Check here if no enforcement actions are involved _____

(Go to 13 otherwise complete 12B)

Refer to Appendix 1 for additional information regarding historical violations. Please note that all violations have been addressed. There are no outstanding violations pertaining to H&R's operations.

B. (1) Name and address of agency that initiated the enforcement action

NJDEP Air and Environmental Quality Enforcement
(formerly located at the R.J. Hughes Justice Complex, CN-093, Trenton, NJ 08625)

(2) Date of the enforcement action 3/9/93

(3) Section of statute, rule or permit allegedly violated N.J.A.C. 7:27-5.2(a)

(4) Type of enforcement Issued an Administrative Order and Notice of Civil Penalty Assessment, Log No. A930263BEA

(5) Description of the violation A complaint about odors resulted in an enforcement action by the NJDEP in 1993.

(6) How was the violation resolved? On October 28, 1993, Florasynth, Inc. (previous owner/operator) paid in the amount of $7,200 in full settlement of the matter.

13. In accordance with N.J.A.C. 7:26E-3.1(c) xiv, please provide a narrative description of all areas where non-indigenous fill materials were used to replace soil or raise the topographic elevation of the site, including the dates of emplacement. **No evidence of non-indigenous fill material identified.**

14. A. In accordance with N.J.A.C. 7:26E-3.2(a) 3.i, submit a scaled site plan, detailing the subject lot and block, property and or leasehold boundaries, location of current and former buildings, fill areas, paved and unpaved areas, vegetated areas, and all areas of concern identified above and all active or inactive wells. **See Figure 2**

B. Scaled historical site maps and facility as built drawings (if available). **None Available**

C. A copy of the United States Geologic Survey (USGS) 7.5 minute topographical quadrangle that includes the site and an area of at least one mile radius around the site. The facility location shall be clearly noted. If a portion of the USGS quadrangle is used, the scale, north arrow, contour interval, longitude and latitude with the name and date of the USGS quadrangle shall be noted on the map. **See Figure 1**

Revision No: _____
Revision Date: _____

15. In accordance with N.J.A.C. 7:26E-3.2, please provide the date that the site visit was completed to verify the findings of the preliminary assessment. **July 31, 2002**

16. List any other information you are submitting or which has been formerly requested by the Department:

Description	Appendix #
Not Applicable	

CERTIFICATION:

The following certification shall be signed by the highest-ranking individual at the site with overall responsibility for that site or activity. Where there is no individual at the site with overall responsibility for that site or activity, this certification shall be signed by the individual having responsibility for the overall operation of the site or activity.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information, and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Typed/Printed Name: Haarmann & Reimer, a NJ Partnership by: Haarmann & Reimer Corporation, Partner Knut Rossbach

Title: President of Haarmann & Reimer Corporation

Signature _____ Date _____

Sworn to and Subscribed Before Me on this _____

Date of _____ 20 _____

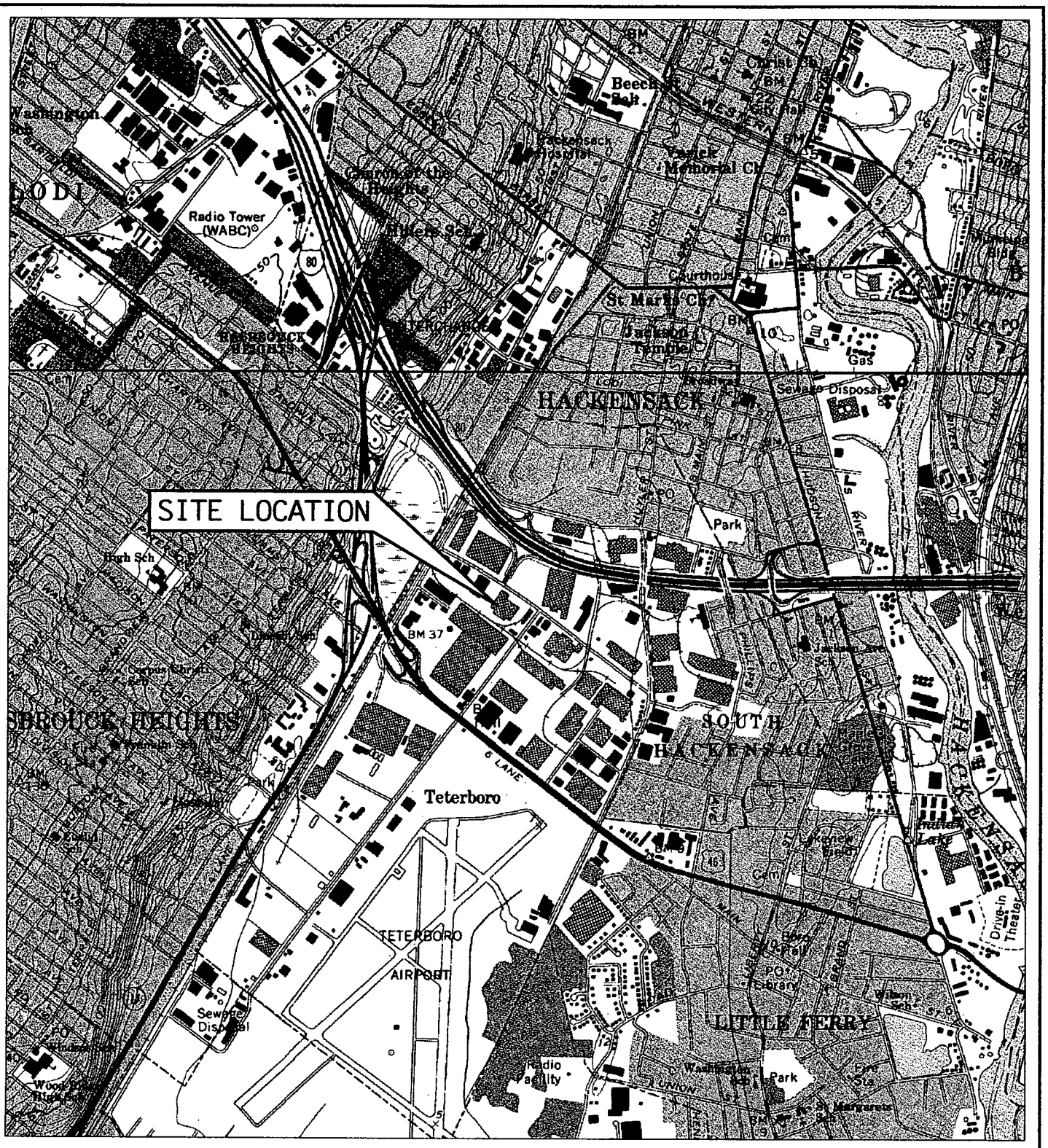
_____

Notary

Revision No: _____

Revision Date: _____

FIGURES



0 2,000 4,000

SCALE: 1" = 2,000'

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

TITLE:	FIGURE 1 SITE LOCATION MAP
LOCATION:	300 NORTH STREET TETERBORO, NEW JERSEY
DATE:	08/02/02
PROJECT NO.:	202155
FILENAME:	202155_300NORTH
SOURCE:	USGS TOPO, HACKENSACK, N.J. QUAD. USGS TOPO, WEEHAWKEN, N.J.-N.Y. QUAD.

ROUTE 80 RAMP

NORTH STREET

HOULLISTER ROAD

APPROXIMATE LOCATION OF DISPERSION WELL

APPROXIMATE LOCATION OF PRODUCTION WELL

PAVED AREA

NEW ADDITION

EXISTING BUILDING/CONCRETE FLOOR

AFFECTED AREA 1/
AOC #11
FORMER EXTERIOR STORAGE AREA

AFFECTED AREA 2/
AOC #8
FORMER 20,000-GALLON NO. 4 FUEL OIL UST

AFFECTED AREA 4/
AOC #17
FORMER POT WASH AREA

AFFECTED AREA 3/
AOC #10A
FORMER SPILL CONTAINMENT TANK

MH

LEGEND

- PROPERTY LINE (APPROXIMATE)
- RAILROAD
- EDGE OF PAVEMENT
- SANITARY SEWER SYSTEM
- STORM SEWER SYSTEM
- FORMER SEWER LINE / TRENCH
- FORMER BUILDING LINE
- CATCH BASIN
- MH MANHOLE
- WINGED HEADWALL

NOTES:

DRAFT

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

0 30 60

SCALE: 1" = 30'

TITLE: EXHIBIT D - FIGURE 3
ENGINEERING CONTROLS FOR AFFECTED AREAS

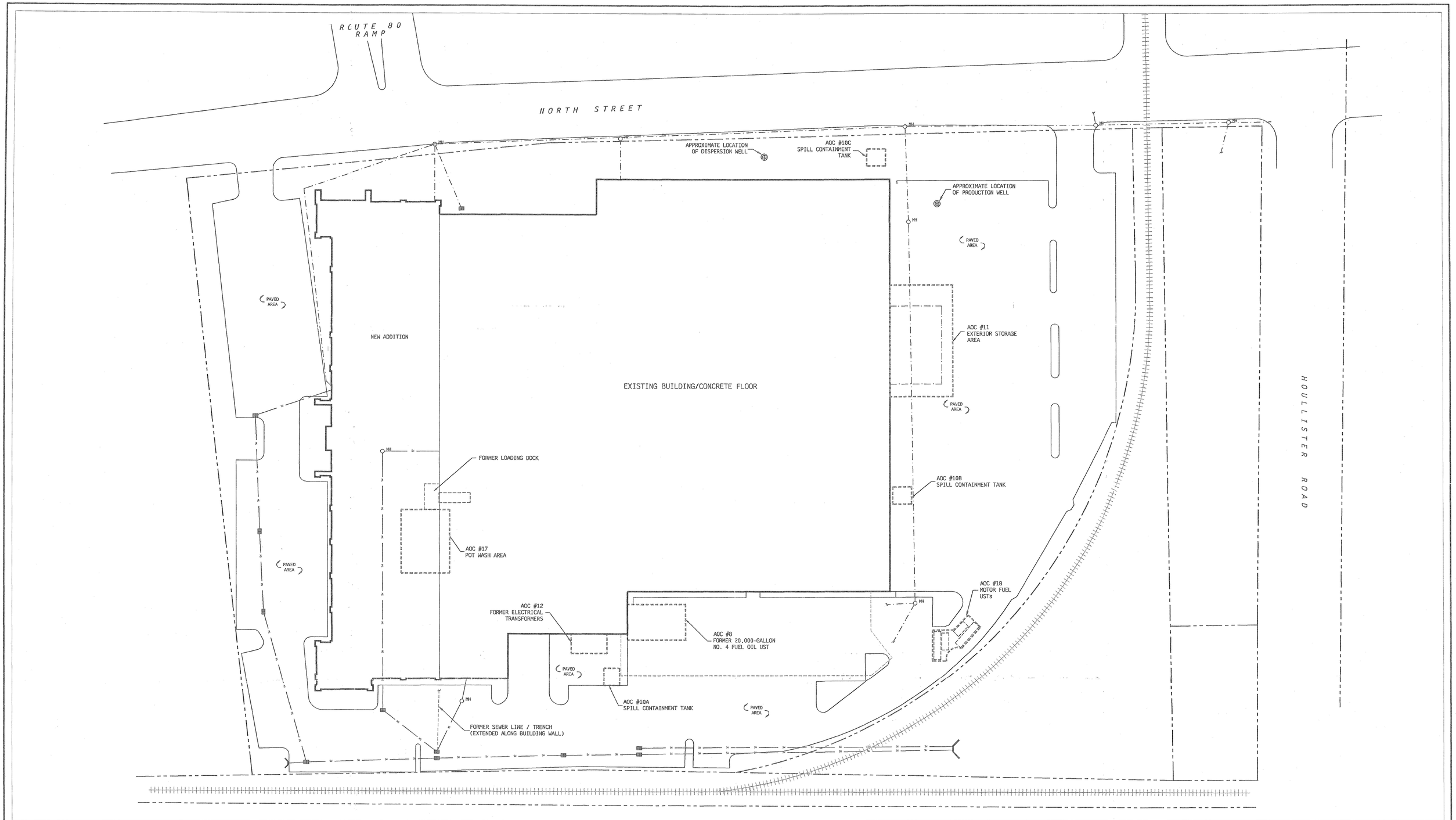
LOCATION: 300 NORTH STREET
TETERBORO,
NEW JERSEY

DATE: 1/8/02

FILENAME: 201162_SITEMAP

LAYOUT: EXHIBIT_D_FIG-3

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 3CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054



LEGEND

- PROPERTY LINE (APPROXIMATE)
- RAILROAD
- EDGE OF PAVEMENT
- SANITARY SEWER SYSTEM
- STORM SEWER SYSTEM
- FORMER SEWER LINE / TRENCH
- FORMER BUILDING LINE
- CATCH BASIN
- MH MANHOLE
- WINGED HEADWALL

NOTES:

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

0 30 60

SCALE: 1" = 30'

TITLE: FIGURE 2
GENERAL SITE MAP

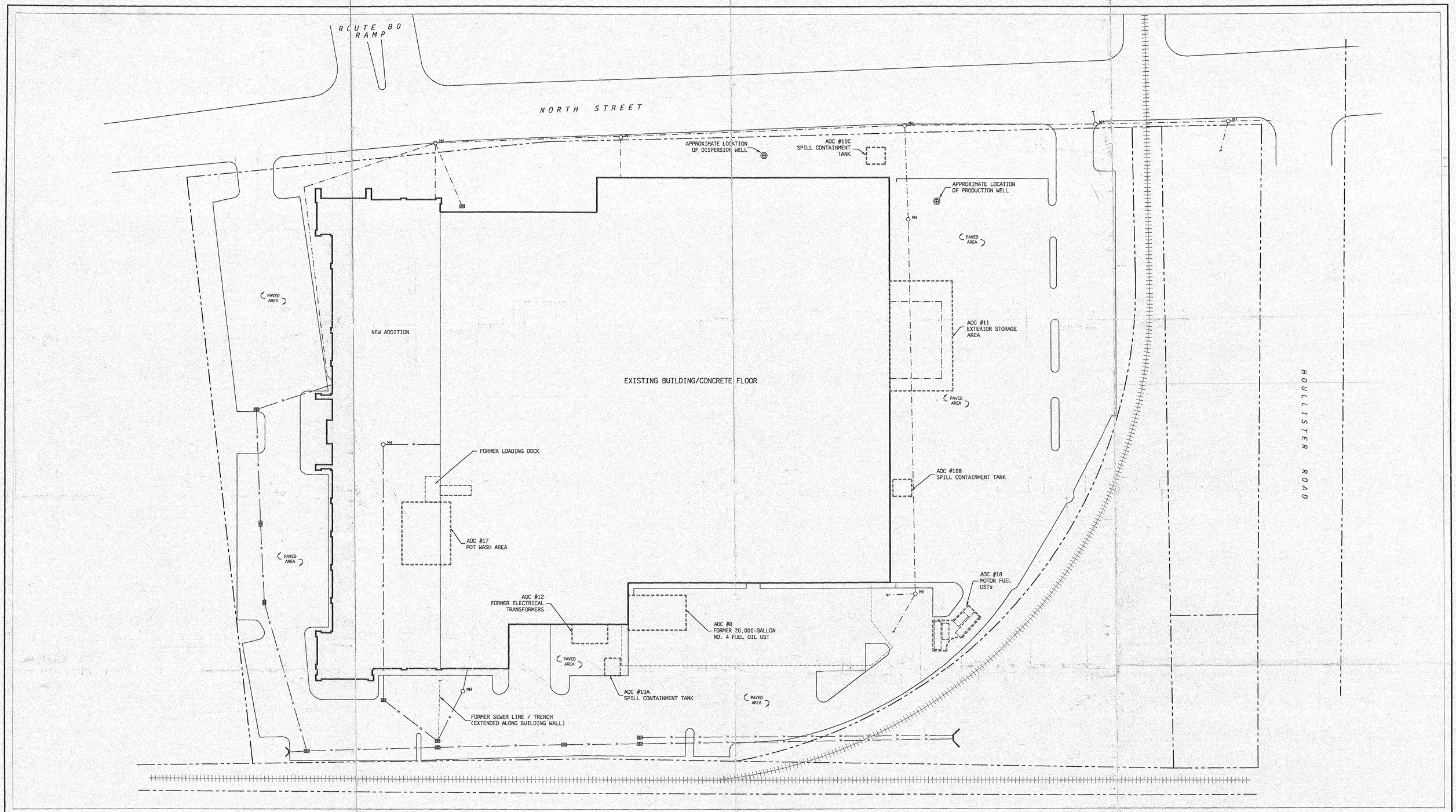
LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 12/28/01

FILENAME: 201162_SITEMAP

LAYOUT: FIGURE_2

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054



LEGEND

- PROPERTY LINE (APPROXIMATE)
- RAILROAD
- EDGE OF PAVEMENT
- SANITARY SEWER SYSTEM
- STORM SEWER SYSTEM
- FORMER SEWER LINE / TRENCH
- FORMER BUILDING LINE
- CATCH BASIN
- MH MANHOLE
- WINGED HEADWALL

NOTES:

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL. DATED 10-7-98.

0 30 60

SCALE: 1" = 30'

TITLE: FIGURE 2 GENERAL SITE MAP

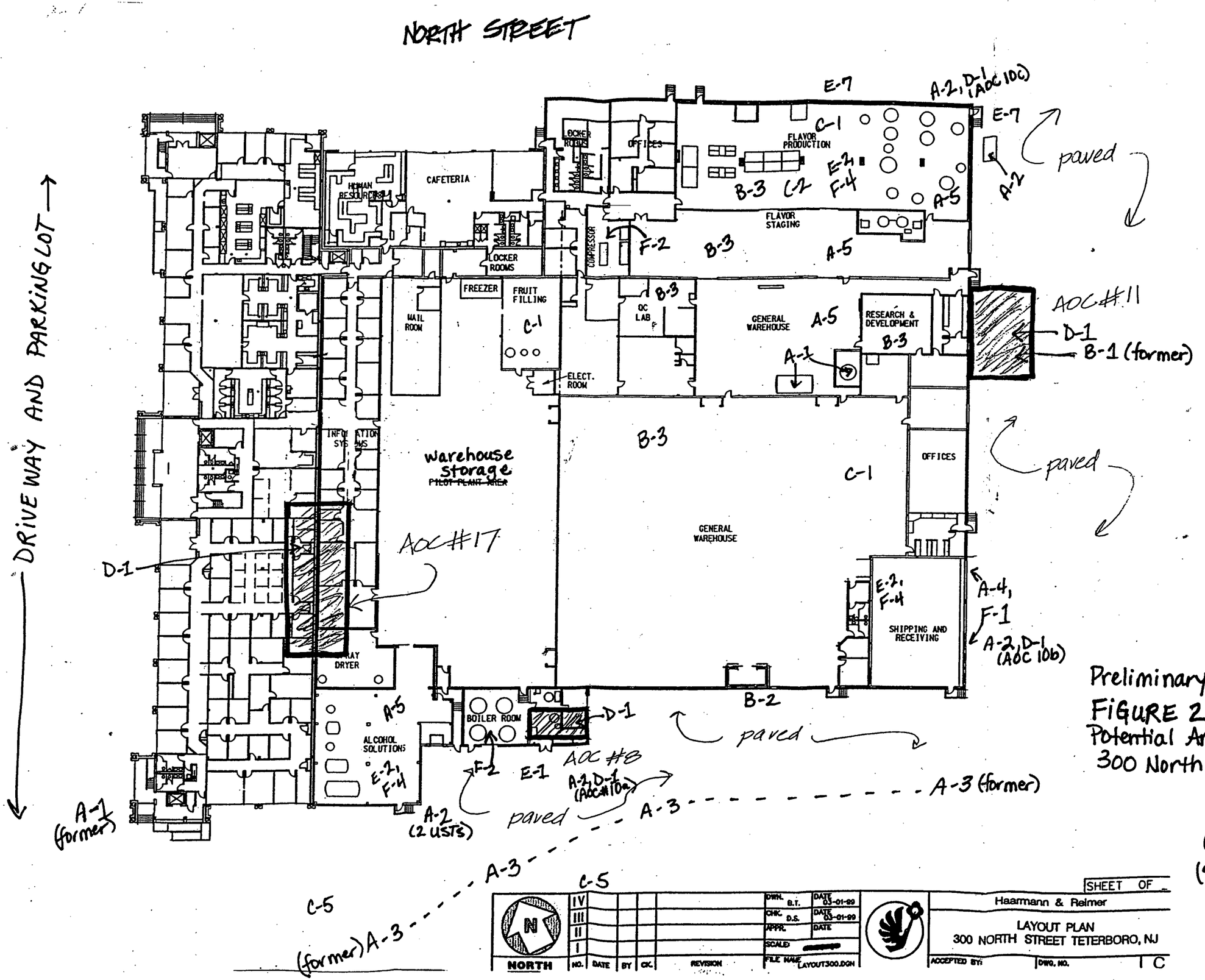
LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 12/28/01

FILENAME: 201162_SITEMAP

LAYOUT: FIGURE_2

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 3CC2, P.O. Box 306, Holicong, PA 18928
1259 Route 46 East, Building 1, First Floor, Parsippany, NJ 07054


NORTH STREET
DRIVE WAY AND PARKING LOT
CAFETERIA
HUMAN RESOURCES
LOCKER ROOMS
OFFICES
FLAVOR PRODUCTION
FLAVOR STAGING
COMPRESSOR
FREEZER
FRUIT FILLING
MAIL ROOM
QC LAB
GENERAL WAREHOUSE
RESEARCH & DEVELOPMENT
ELECT. ROOM
INFORMATION SYSTEMS
Warehouse Storage
PILOT PLANT AREA
GENERAL WAREHOUSE
OFFICES
SHIPPING AND RECEIVING
SPRAY DRYER
ALCOHOL SOLUTIONS
BOILER ROOM
AOC #11
AOC #17
AOC #8
A-2, D-1 (AOC 10c)
A-2, D-1 (AOC 10b)
A-2, D-1 (AOC 10a)
A-2 (2 USTs)
A-1 (former)
A-3 (former)
A-4, F-1
paved
Note:
- Figure not to Scale.
- Locations are approximate.
Preliminary Assessment
FIGURE 2
Potential Areas of Concern
300 North Street, Teterboro
C-4 (SE corner of property)
C-5
NORTH
Haarmann & Reimer
LAYOUT PLAN
300 NORTH STREET TETERBORO, NJ
SHEET OF
DWN. B.T. DATE 03-01-99
CHK. D.S. DATE 03-01-99
APPR. DATE
SCALE:
FILE NAME LAYOUT300.DGN
NO. DATE BY CK. REVISION
ACCEPTED BY:
DWG. NO. C

APPENDIX 1

Description of Historic Operations

APPENDIX 1

Description of Historic Operations

The following table summarizes the current and former operations at the subject property. Prior to 1950, the property was utilized as a golf course. Development of the subject property commenced in 1950.

Operator	Operations
Haarmann & Reimer (1995 to Present)	Development and mixing/blending of fragrances and flavors.
Florasynth, Inc. (1975 to 1995)	Development and mixing/blending of fragrances and flavors.
Julian Weis Winery (1950 to 1975)	Wine bottling operations, warehouse and distribution.
Unknown (prior to 1950)	Golf course (according to the aerial photo review).

Aerial Photographs

ELM reviewed aerial photos dated April 6, 1940; April 7, 1951; April 12, 1961; April 7, 1969; and March 24, 1974.

1940 Aerial Photo: The subject property and adjacent properties are collectively a golf course. The land is cleared to the south of the subject property for the future railroad tracks.

1951 Aerial Photo: The subject property is improved with a L-shaped building with an addition on the northern side and two additions on the southern side. On the subject property, a paved parking lot is to the north and an access road leading from North Street to the southern end of the building is located on the east side of the building. The property east of the access road is undeveloped; Hollister Road is located adjacent east of this property. A manufacturing/industrial building is located northeast of the subject property, across North Street. The property north of the subject property, on the north side of North Street, is undeveloped. Railroad tracks are located

to the south of the subject property. The property across the railroad tracks is undeveloped. A manufacturing/industrial building is located west of the subject property (i.e., 350 North Street).

1961 Aerial Photo: An addition was constructed on the eastern side of the subject building. In the south yard it appears that loading/unloading operations were conducted via rail spurs. Three ASTs associated with the winery operations were observed on the west side of the subject property. No obvious changes to the property north of the subject property were observed. To the south of the subject property, across the railroad tracks, a manufacturing/industrial facility was constructed. Railroad spurs run from the south side of the subject property, along the eastern portion of the subject property and across North Street. With regard to the building west of the subject property (i.e., 350 North Street), an addition was constructed onto the southern portion of the building and the surrounding area was paved for parking, loading/unloading and storage operations.

1969 Aerial Photo: No significant changes to the subject property with the exception of a fourth AST located west of the building. The railroad spurs were still in use. Across North Street from the subject property, a parking lot was built on the property bordering North Street. No significant changes to the adjacent properties to the west and south. Across Hollister Road, east of the subject property, four buildings were constructed. Interstate 80 was constructed between 1961 and 1969.

1974 Aerial Photo: No significant changes were observed to the subject property; the four ASTs and railroad spurs are still in-place and/or in-use. Also, no significant changes were observed to the adjacent properties to the north, east, and west. With regard to the adjacent property to the south, a large addition was constructed onto the northern portion of that property (i.e., the addition extends to the railroad tracks).

Summary of Aerial Photographs Review

As indicated in the aerial photograph review presented above, the subject property and adjacent properties were undeveloped and used as a golf course from pre-1940. The subject property, railroad tracks and adjacent properties to the east and west were developed between 1940 and

1951. The adjacent property to the south was developed between 1951 and 1961. Interstate 80 and the adjacent property to the north were developed between 1961 and 1969.

Environmental Data Resources, Inc.

To obtain information regarding the subject property, ELM acquired a commercially available environmental database report from Environmental Data Resources, Inc. (EDR). The subject property, located at 300 North Street, Teterboro, New Jersey, is listed in the report. The listings refer to former owner/operator, Florasynth, Inc., and current owner/operator Haarmann & Reimer. A summary of the listings, as referenced in the EDR Report, is as follows:

EDR Site Identification -- Florasynth, Inc.

NJ Spills: NJDEP case number 98-06-02-1209-44 issued when the 4,000-gallon UST (UST# 0228675) was removed. An investigation and cleanup was completed (See Appendix 4 - AEC A-2).

EDR Site Identification -- Haarmann & Reimer (H&R)/ Florasynth, Inc.

NJ Spills: NJDEP case number 97-08-15-1151-42 was issued when a loose flange on a UST caused a spill of denatured alcohol (i.e., Ethanol CAS #64-175). The material washed away with rain water. The flange was repaired. According to the EDR Report, no further cleanup was completed. In addition, this incident is not listed on the NJDEP's Known Contaminated Site List (KCSL), confirming that this is not an open issue and no further investigation is required.

NJ Spills: NJDEP case number 97-02-19-1104-01 was issued when a valve failed on the bottom of a kettle causing a release of butter/caustic sulfuric acid to the sewer system. The valve was repaired. As the material went to the POTW/sewer system, no further cleanup was completed or required. Also, this incident is not listed on the NJDEP's KCSL, confirming that this is not an open issue and no further investigation is required.

NJ Release: NJDEP case number 97-03-20-1012-02 was issued at the time of a suspected discharge of seven drums of solvents/waste to the sewer system. No additional information is available. As the material went to the POTW/sewer system, no further cleanup was completed. Also, this incident is not listed on the NJDEP's KCSL, which confirms that this is not an open issue and no further investigation is required.

NJ Spills: NJDEP case number 97-07-10-1844-23 was issued when contaminated soil was observed during an excavation. Cleanup of the area was completed as part of ISRA Case #E95108.

All of the above NJDEP spill numbers were addressed under ISRA Case #E95108.

EDR Site Identification -- Haarmann & Reimer (H&R)

Toxic Substances Control Act (TSCA): Identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. Includes data on the production volume of these substances by plant site. Identification numbers pertaining to H&R include: 1001956470, 1001956328, 1001956679, 1001956050, 1001956290, 1001956608, 1001956238, 1001956043, 1001956230, 1001956852, 1001956824, 1001956009, 1001956598, 1001956271, 1001956870, 1001956211, 1001956025, 1001956027, 1001956223, 1001956553, 1001956008, 1001956030.

FINDS/ RCRIS-SQG: Facility Index System/ Resources Conservation Recovery Information System (RCRIS) - Small Quantity Generator (EPA-ID NJD070570122). According to the EDR report, four violations existed. The four violations noted were for minor generator requirements (oversight). Three of the four violations resulted from compliance evaluation inspections; one violation resulted from a non-financial record review. All four violations were completely corrected on April 25, 2001, February 27, 1996 (two violations), and, October 26, 1989.

SHWS: State Hazardous Waste Site with facility identification number NJD070570122. The subject property is listed as having former onsite source(s) of contamination and is associated with former NJDEP spill numbers (referenced above) and/or the current ISRA Case #E95108.

LUST: Leaking Underground Storage Tank. Case #89-06-20-2006 was issued a letter of No Further Action pertaining to UST ID #0228675. This area was evaluated as part of the current ISRA Case #E95108.

NJPDES: New Jersey Pollution Discharge Elimination System Permit Number NJ0114197. The permit discharge category is 5G2, for stormwater basic (GP).

NJ Release: Duplicative listing with NJDEP case number 97-08-15-1151-42 listed in the above *Haarmann & Reimer (H&R)/ Florasynth, Inc.* section.

NJ Spills: NJDEP case number 96-08-20-0918-04 was issued when a potpourri tank (containing a blend of finished products) fell over causing a spill. Cleanup of the area was completed. The EDR Report lists this incident twice. This area was also addressed under ISRA Case #E95108.

UST: Underground Storage Tank database. The facility identification number is 0228675. According to the EDR report, twelve USTs are listed, and four of which are still located and in-use on the subject property. They are: two 400-gallon emergency spill containment USTs, one 2,000-gallon emergency spill containment UST (for fragrance materials), and one 8,000-gallon denatured alcohol UST. However, the listings in the EDR report are not consistent with the findings of the site inspection, as explained below.

A total of thirteen USTs had been installed at the subject property (See question 11.B. of the Preliminary Assessment form). Ten USTs were removed during various phases of site investigation and construction/restoration and have been addressed under ISRA Case #E95108. One of the removed USTs, an 8,000-gallon ethyl alcohol UST (denatured, for fragrance operations) was removed from the west side of the building and replaced with a new 8,000-

gallon UST (containing the same material) on the southwest side of the building, near the fragrance operations (i.e., alcohol solutions). The three 400-gallon spill containment USTs were removed over the course of two events; one UST was removed in October 1997, and two USTs were removed in October 1999. The USTs remaining onsite and in-place are: one 8,000-gallon ethyl alcohol (denatured, for fragrance operations, as noted above), one 8,000-gallon ethyl alcohol (food grade, for flavor operations), and, one 2,000-gallon spill containment (for fragrance operations).

The subject property (300 North Street, Teterboro, New Jersey) was not listed in any other database searched by EDR.

New Jersey Department of Environmental Protection (NJDEP)

With regard to ISRA Case #E95108, a total of twenty Areas of Concern (AOCs) have been identified on the subject property. A table summarizing the twenty AOCs is provided in the January 16, 2002 Remedial Investigation Report/ Remedial Action Workplan (RIR/RAW) prepared by ELM. Of the twenty AOCs, a total of fifteen AOCs have received No Further Action (NFA) approvals from the NJDEP. A listing of the fifteen AOCs that have received NFA approvals, and copies of the applicable NFA approval letters, are included in Appendix 5 of this Preliminary Assessment (PA) Report.

With regard to the remaining five AOCs, NFA in conjunction with a Deed of Environmental Restriction (Deed Notice) in four AOCs and the establishment of a Classification Exception Area (CEA) for ground water in one AOC (i.e., the fifth AOC) was proposed in the January 16, 2002 RIR/RAW. As of the date of this PA Report, the NJDEP has not provided a written response to the January 16, 2002 RIR/RAW. For additional details regarding the remaining five AOCs, please refer to the January 16, 2002 RIR/RAW. A listing of the remaining five AOCs is provided in Appendix 6 of this PA Report.

No other areas of environmental concern exist at the subject property.

Interviews with Representatives of the Operator of the Subject Property

Representatives of Haarmann & Reimer (H&R) provided a history of the subject property, a description of current operations, and assorted documentation regarding environmental permits and site plans. Discussions and information are included throughout this document.

APPENDIX 2

Description of Most Recent/Current Operations

APPENDIX 2

Description of Most Recent/Current Operations

The Haarmann & Reimer (H&R) subject property located at 300 North Street, Teterboro, New Jersey is 6.5-acres, which consists of a 185,130 square feet office/warehouse building and asphalt parking areas (Figures 1 and 2). The western three-story portion of the building contains offices and quality control/product development laboratories. The building is constructed on a concrete slab with masonry walls and steel truss roof. A landscaped/grass area fronts the building along North Street.

The subject property serves six functions: as the Corporate Administrative offices; the Flavors Division business offices and development labs; the Fragrance Division business offices and development labs; Flavors manufacturing and QC lab; Fragrance alcohol blending and QC lab; and, the warehousing of Flavor and Fragrance raw materials and finished goods.

The production areas, including Fragrance alcohol blending, and Flavor production, staging, and offices, comprise approximately 20,877 square feet of the building. The Fragrance alcohol blending/production operations consist of blending alcohol, fragrance, and water. The commonly utilized raw material, ethyl alcohol (denatured), is containerized in an 8,000-gallon underground storage tank (UST) located outside the building, beneath a concrete pad. The products are containerized and subsequently shipped to vendors. Due to the nature of the materials, the Fragrance operations are housed in an explosion proof area of the building. Emergency spill containment for the operational areas includes floor drains connected to a 2,000-gallon spill containment UST located outside the building, beneath a concrete pad. The manufacturing/blending operations are all completed via aboveground storage tanks (AST), and other mixing/blending equipment, staged on the concrete floor inside the building.

The Flavor production, staging, and office operations are located on the opposite side of the building from the Fragrance operations. In the Flavor staging area, raw materials are staged for the production area and floor drains are connected to the sanitary sewer. In the Flavor

production area, raw materials are mixed and blended. One of the most commonly utilized raw materials, propylene glycol (CAS #57-556), a food-approved solvent, is containerized in a 4,500-gallon steel AST located within the production area. The AST is housed within a concrete-walled bunker that provides secondary containment. The other commonly utilized raw material, ethyl alcohol, a food-grade alcohol (not a listed hazardous substance), is containerized in an 8,000-gallon UST located outside the building, beneath a concrete pad. All floor drains in the Flavor production area are connected to the wash down area (i.e., washing floors, pots, containers) that, in turn, is connected to the sanitary sewer system. Any spills from production areas where large quantities of materials are utilized are pumped to the secondary containment AST via the floor trench system. The AST can hold approximately 6,000 gallons, but is rarely utilized.

The warehouse area, including shipping and receiving, comprises approximately 48,228 square feet of the building. The docks in the warehouse area serve incoming and outgoing shipments of raw materials and finished products. Aboveground hydraulic lifts service the docks. Incoming shipments of raw materials are checked-in, weighed, and sampled. Preliminary sampling is completed for verification and approval of the shipment. The shipments are labeled with an internal code and date for electronic tracking purposes and then placed into the appropriate section of the warehouse (i.e., hazardous material or non-hazardous material storage). Hazardous materials are stored in a separate, self-contained, fire-proof room within the warehouse area. Finished products are shipped out to vendors typically within 48 hours, as the warehouse does not contain overstock space.

The remaining 116,205 square feet of the subject property consists of office space (82,893 square feet), pilot laboratories utilized to test new equipment (4,312 square feet), and miscellaneous space (28,820 square feet) comprised of such areas as hallways, mailroom, cafeteria, locker rooms, maintenance/utility rooms, including the boiler and compressor rooms.

PSE&G provides natural gas and electric services to the subject property. United Water Company provides potable water service to the subject property. The on-property sewer system is tied to the Borough of Teterboro sanitary sewer system that ultimately discharges to the Bergen County Municipal Utility Authority.

APPENDIX 3

Hazardous Substance/Waste Inventory

APPENDIX 3

Hazardous Substance/Waste Inventory

The former owner/operator, Florasynth, Inc., conducted very similar [redacted] mixing/blending of fragrances and flavors) as the current owner/operator, H[redacted] (H&R). Therefore, the hazardous substances utilized during both operations are similar. Please note that H&R bought/retained all materials from Florasynth, Inc.

With regard to hazardous materials stored at the subject property during the Haarmann & Reimer operations (1995 to present), a copy of the Community Right to Know Survey for 2001 and Part 2, Chemical Inventory Report is included in this Appendix. According to H&R, this information is consistent with the prior years of operation. Due to the constant and variability of materials utilized in the operations, the typical annual usage is not provided. The materials are stored in plastic or metal drums for liquids, and cardboard drums/cylinders for solids (i.e., powders). All hazardous materials are contained in a separate, self-contained, fire-proof room within the warehouse area. Spill containment is present throughout the warehouse area via curbs, steps and designated floor drains that connect to the emergency spill containment tanks.

At the time of the site inspection, containers of new and spent oil for the compressor were observed in the compressor room. Eight 5-gallon buckets of new oil and two 5-gallon buckets of spent oil were staged along the wall in the compressor room. According to H&R representatives, the spent waste oil is containerized and shipped to Safety Kleen for proper disposal. On a quarterly basis, Aromatic (a subcontractor) provides routine maintenance services for the compressors, including changing the compressor oil and filters, which are subsequently taken offsite for proper disposal.

H&R

Haarmann & Reimer

300 North Street
Teterboro, NJ 07608
E-Mail: Nick.Scarpa.b@Bayer.com
Telephone: (908) 429-5909
Facsimile: (908) 429-5927

A Bayer Company

February 28, 2002

NJDEP
Community Right to Know Survey
CN 405
Trenton, NJ 08625-0405

RE: Superfund Amendments and Reauthorization Act of 1986 (SARA)
Title III, Section 312
NJ Community Right-to-Know Act

Gentlemen:

In accordance with the requirements of the above laws, Haarmann & Reimer is submitting this list of chemicals and the Community Right-to-Know Survey for 2001.

The following chemicals, with hazard category indicated, may be present in quantities greater than 10,000 pounds, at our manufacturing facility at 300 North Street, NJ 07608.

NAME	CAS NO.	HAZARD CATEGORIES
Ethyl Alcohol	64-17-5	immediate, delayed, fire
Lemon Oil	8008-56-8	immediate
Orange Oils	8008-57-9	immediate
Propylene Glycol	57-55-6	immediate
Benzyl Acetate	140-11-4	immediate
Menthol L-Cryst Natural USP	2216-51-5	immediate
Cornmint Oil	68917-18-0	immediate
Triacetin	102-76-1	immediate
Capric Triglyceride	118-71-8	immediate
Cinnamic Aldehyde	104-55-2	immediate

We do not have any of the substances on the list of extremely hazardous substances present in quantities exceeding the lesser of 500 pounds or the Threshold Planning Quantity.

Please contact me for any questions you may have concerning this report.

Very truly yours,

N. M. Scarpa, Ph.D.
Director, Regulatory Compliance

/kp
att.

COMMUNITY RIGHT TO KNOW SURVEY FOR 2001

For State and Federal Community Right to Know Reporting

Please type this form.

THIS PAGE MUST BE COMPLETED. SIGNED. AND RETURNED.

94878900000 2844 32562

ATTN: N. M. SCARPA
HAARMANN & REIMER
300 NORTH STREET
TETERBORO, NJ 07608

See instructions if information on these forms is incorrect.

A Facility Location - Name. Street. City. State. Zip and County
MUST BE PROVIDED

2223462783 0262

HAARMANN & REIMER
300 NORTH ST
TETERBORO, NJ 07608
County: BERGEN

Please indicate the reason for changing this information
[ ] this facility moved [ ] additional facility
[ ] correction to existing location

B Does this facility **Produce, Store or Use** Environmental Hazardous Substances on Table A in a pure or mixture state:
Darken either yes or no box

1. in any quantity? [X] Yes [ ] No
2. above thresholds? [X] Yes [ ] No

D Number of employees at facility: 274

E Number of facilities in New Jersey: 4

F Federal EIN **Please verify**: 223462783

C Briefly describe the current operations or business conducted at this facility:

FLAVOR MANUFACTURING

G If you are claiming an R&D lab exemption for this facility, enter your approval number.

H Check box if you have reported any substances pursuant to Section 312 of the Federal Emergency Planning and Community Right to Know Act (EPCRA/SARA, Title III) [ ]

I FACILITY EMERGENCY CONTACT

Name FREDERIC THOR
Facility Phone Number (201) 462-2334
Title VP FLAVOR PRODUCTION
Emergency Contact Phone Number (800) 422-1559

NOTE: Check box only if the facility information in boxes A, D, E, I or J has changed since your last submittal. [ ]

J CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE -- I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature [signature] Date 2/28/02 Fax # 908 725 6927
Name N.M. Scarpa Title Director, Compliance Phone # (908) 429 6905

RETURNED SIGNED ORIGINAL TO:
NJDEP
Community Right To Know Survey
PO Box 405
Trenton. NJ 08625-0405

You are required to send copies of this survey to the agencies listed on Page 23 of the instruction guide. You must also keep a copy at your facility.

9 4 8 7 8 9 0 0 0 0 0 0 2 6 2

HAARMANN & REIMER
300 NORTH STREET, TETERBORO

PART 2
2001 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, **2001**

Please type all responses.
Photocopy this page if you need additional forms.
Read instructions carefully before completing this form.

SUBSTANCE DESCRIPTION	HAZARDS (Check all that apply)	INVENTORY INFORMATION
Name: ACETOPHENONE Substance Number: 2961 CAS Number 98-86-2 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects (x) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 13 Avg. daily inventory 13 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) FLAVORS AND FRAGRANCES BUILDING	
Name: ETHYL ALCOHOL Substance Number: CAS Number 64-17-5 DOT Number: 1170 Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects (x) Chronic health effects ( ) None per MSDS	Container Type TB Max. daily inventory 15 Avg. daily inventory 15 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) FLAVORS AND FRAGRANCES BUILDING	
Name: ETHYL ALCOHOL Substance Number: CAS Number 64-17-5 DOT Number: 1170 Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects (x) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) FLAVORS AND FRAGRANCES BUILDING	
Name: HAZARDOUS WASTE Substance Number: 2461 CAS Number DOT Number: 9189 Pure ( ) or Mixture (x) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects (x) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 12 Avg. daily inventory 12 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) WAREHOUSE	
Name: LEMON OIL Substance Number: CAS Number 8008-56-8 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 13 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) WAREHOUSE	

CONTAINER CODES AND DESCRIPTIONS

TA	Above ground tank	BA	Bag
TB	Below ground tank	BX	Box
TI	Tank inside building	CY	Cylinder
DS	Steel Drum	BG	Bottle or jugs (glass)
DP	Plastic drum	BP	Bottles or jugs (plastic)
DF	Fiber drum	BN	Tote bin
CN	Can	TW	Tank Wagon
CB	Carboy	RC	Railcar
SI	Silo	OT	Other (Describe)

INVENTORY RANGE CODES[1]

20 Greater than 10 million pounds
19 1,000,001 to 10 million pounds
18 500,001 to 1 million pounds
17 250,001 to 500,000 pounds
16 100,001 to 250,000 pounds
15 50,001 to 100,000 pounds
14 10,001 to 50,000 pounds
13 1,001 to 10,000 pounds
12 101 to 1,000 pounds
11 11 to 100 pounds
10 1 to 10 pounds
09 Less than 1 pound

[1] Note: Please see pages 14 thru 17 for gallon & cubic feet conversion factors.

STORAGE TEMPERATURE AND PRESSURE CODES

Pressure
01 Ambient* pressure
02 Greater than ambient pressure
03 Less than ambient pressure

Temperature
04 Ambient temperature
05 Greater than ambient temperature
06 Less than ambient temperature but not cryogenic (freezing conditions)
07 Cryogenic conditions (less than -200°C)

*Ambient means "normal," "surrounding," or "room" conditions

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HAARMANN & REIMER
300 NORTH STREET, TETERBORO

PART 2
2001 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, **2001**

Please type all responses.
Photocopy this page if you need additional forms.
Read instructions carefully before completing this form.

SUBSTANCE DESCRIPTION	HAZARDS (Check all that apply)	INVENTORY INFORMATION
Name: ORANGE OILS Substance Number: CAS Number 8008-57-9 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	(x) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) FLAVORS AND FRAGRANCES BUILDING	
Name: PROPYLENE GLYCOL Substance Number: CAS Number 57-55-6 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type TI Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) FLAVORS AND FRAGRANCES BUILDING	
Name: BENZYL ACETATE Substance Number: CAS Number 140-11-4 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) WAREHOUSE	
Name: MENTHOL L-CRYST NATURAL USP Substance Number: CAS Number 2216-51-5 DOT Number: Pure (x) or Mixture ( ) Solid (x) Liquid ( ) Gas ( ) Trade Secret: ( ) Check if claiming	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type CB Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) WAREHOUSE	
Name: CORNMINT OIL Substance Number: CAS Number 68917-18-0 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
	Location(s) WAREHOUSE	

CONTAINER CODES AND DESCRIPTIONS

TA	Above ground tank	BA	Bag
TB	Below ground tank	BX	Box
TI	Tank inside building	CY	Cylinder
DS	Steel Drum	BG	Bottle or jugs (glass)
DP	Plastic drum	BP	Bottles or jugs (plastic)
DF	Fiber drum	BN	Tote bin
CN	Can	TW	Tank Wagon
CB	Carboy	RC	Railcar
SI	Silo	OT	Other (Describe)

INVENTORY RANGE CODES [1]

20 Greater than 10 million pounds
19 1,000,001 to 10 million pounds
18 500,001 to 1 million pounds
17 250,001 to 500,000 pounds
16 100,001 to 250,000 pounds
15 50,001 to 100,000 pounds
14 10,001 to 50,000 pounds
13 1,001 to 10,000 pounds
12 101 to 1,000 pounds
11 11 to 100 pounds
10 1 to 10 pounds
09 Less than 1 pound

[1] Note: Please see pages 14 thru 17 for gallon & cubic feet conversion factors.

STORAGE TEMPERATURE AND PRESSURE CODES

Pressure
01 Ambient* pressure
02 Greater than ambient pressure
03 Less than ambient pressure

Temperature
04 Ambient temperature
05 Greater than ambient temperature
06 Less than ambient temperature but not cryogenic (freezing conditions)
07 Cryogenic conditions (less than -200°C)

*Ambient means "normal," "surrounding," or "room" conditions

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HAARMANN & REIMER
300 NORTH STREET, TETERBORO

PART 2
2001 CHEMICAL INVENTORY REPORT

Reporting Period: January 1 - December 31, 2001

Please type all responses.
Photocopy this page if you need additional forms.
Read instructions carefully before completing this form.

SUBSTANCE DESCRIPTION	HAZARDS (Check all that apply)	INVENTORY INFORMATION
Name: Triacetin Substance Number: CAS Number 102-76-1 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid ( ) Gas ( ) Trade Secret: ( ) Check if claiming Location(s)	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 13 Days on site 365 Storage pressure 01 Storage temperature 04
Name: Capric Triglyceride Substance Number: CAS Number 118-71-8 DOT Number: Pure ( ) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming Location(s)	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 13 Days on site 365 Storage pressure 01 Storage temperature 04
Name: Cinnamic Aldehyde Substance Number: CAS Number 104-55-2 DOT Number: Pure (x) or Mixture ( ) Solid ( ) Liquid (x) Gas ( ) Trade Secret: ( ) Check if claiming Location(s)	( ) Fire ( ) Sudden release of pressure ( ) Reactive (x) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type DS Max. daily inventory 14 Avg. daily inventory 14 Days on site 365 Storage pressure 01 Storage temperature 04
Name: Substance Number: CAS Number DOT Number: Pure ( ) or Mixture ( ) Solid ( ) Liquid ( ) Gas ( ) Trade Secret: ( ) Check if claiming Location(s)	( ) Fire ( ) Sudden release of pressure ( ) Reactive ( ) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type Max. daily inventory Avg. daily inventory Days on site Storage pressure Storage temperature
Name: Substance Number: CAS Number DOT Number: Pure ( ) or Mixture ( ) Solid ( ) Liquid ( ) Gas ( ) Trade Secret: ( ) Check if claiming Location(s)	( ) Fire ( ) Sudden release of pressure ( ) Reactive ( ) Acute health effects ( ) Chronic health effects ( ) None per MSDS	Container Type Max. daily inventory Avg. daily inventory Days on site Storage pressure Storage temperature

CONTAINER CODES AND DESCRIPTIONS

TA Above ground tank	BA Bag
TB Below ground tank	BX Box
TI Tank inside building	CY Cylinder
DS Steel Drum	BG Bottle or jugs (glass)
DP Plastic drum	BP Bottles or jugs (plastic)
DF Fiber drum	BN Tote bin
CN Can	TW Tank Wagon
CB Carboy	RC Railcar
SI Silo	OT Other (Describe)

INVENTORY RANGE CODES [1]

20 Greater than 10 million pounds
19 1,000,001 to 10 million pounds
18 500,001 to 1 million pounds
17 250,001 to 500,000 pounds
16 100,001 to 250,000 pounds
15 50,001 to 100,000 pounds
14 10,001 to 50,000 pounds
13 1,001 to 10,000 pounds
12 101 to 1,000 pounds
11 11 to 100 pounds
10 1 to 10 pounds
09 Less than 1 pound

[1] Note: Please see pages 14 thru 17 for gallon & cubic feet conversion factors.

STORAGE TEMPERATURE AND PRESSURE CODES

Pressure
01 Ambient* pressure
02 Greater than ambient pressure
03 Less than ambient pressure

Temperature
04 Ambient temperature
05 Greater than ambient temperature
06 Less than ambient temperature but not cryogenic (freezing conditions)
07 Cryogenic conditions (less than -200°C)

*Ambient means "normal," "surrounding," or "room" conditions

DEQ-094

APPENDIX 4

Potential Areas of Concern

APPENDIX 4

Potential Areas of Concern

As discussed in Appendix 5, fifteen areas of concern (AOCs) were previously identified as part of ISRA Case #E95108 and have received No Further Action (NFA) approvals from the NJDEP. Appendix 6 presents information pertaining to the five remaining AOCs associated with ISRA Case #E95108, all of which are awaiting final NFA approval from the NJDEP. The following discussion pertains to the potential AOCs associated with the operations of Haarmann & Reimer (H&R) at the subject property (except where noted). As detailed below, no further investigation or remedial action is required for any of the potential AOCs associated with H&R's operations. Each potential AOC identified during the site inspection and completion of this Preliminary Assessment (PA) Report is discussed below and depicted on Figure 2.

AEC A-1: Aboveground Storage Tanks and associated piping

According to the aerial photo review (Appendix 1), four aboveground storage tanks (ASTs) were formerly located on the western portion of the subject property. The Julian Weis Winery (former operator) installed the ASTs, which reportedly contained alcohol. Florasynth, Inc. (former operator) removed the ASTs. No evidence of any spills or discharges was identified. A competent asphalt parking area now covers the area where the ASTs were located. No further investigation or action with regard to the historical ASTs is recommended.

Currently, two ASTs are located in the Flavor production area: one 4,500-gallon AST contains propylene glycol (CAS #57-556), a food-approved solvent; and, one approximately 6,000-gallon AST utilized for secondary containment (i.e., spill containment for the production area). In addition, numerous ASTs in the Flavor and Fragrance production areas are utilized for batch blending and process vessels. All interior ASTs are equipped with spill containment drains and or berms. In the event of an accidental spill, material would be collected in the floor drain system or contained by the berms and directed to the spill containment USTs. No evidence of

spills or discharges was observed at the time of the site inspection. As such, no further investigation or action is recommended.

AEC A-2: Underground Storage Tanks and associated piping

A total of thirteen underground storage tanks (USTs) had been installed at the subject property. Of the thirteen USTs, three are still in-place and in-use on the subject property. They are: one 2,000-gallon emergency spill containment UST for fragrance operations, one 8,000-gallon ethyl alcohol UST (denatured) for fragrance operations, and one 8,000-gallon ethyl alcohol UST (food grade, not a listed hazardous substance) for flavor operations. The emergency spill containment tank only contains material immediately after a spill in the process area, and then the material is properly disposed. The other ten USTs (listed in Question 11.B. of the Preliminary Assessment) were removed during various phases of site investigation and construction/restoration. All the USTs have either received an NFA (See Appendix 5) or are being addressed as part of ISRA Case #E95108 (See Appendix 6). Based upon the results of recent and historical environmental investigations, no further investigation or action with regard to the USTs is recommended.

AEC A-3: Rail Cars

According to the aerial photo review (Appendix 1), a rail car spur was located in the south yard of the subject property. The rail car spur first appears in the 1961 photograph and appears in the 1974 photograph. The previous operator, the Julian Weis Winery, installed the rail lines and utilized them for loading/unloading operations. No information was available that indicated the transport of any hazardous materials. Presumably, Florasynth, Inc. discontinued the rail spur service in approximately 1975 when operations at the subject property commenced. This area was previously addressed under ISRA Case #E95108 and the NJDEP granted no further investigation or action. A competent asphalt parking area now covers the area where the rail spur was located. Therefore, no further investigation or action is recommended.

AEC A-4: Loading and unloading areas, and

AEC F-1: Loading and transfer areas

Truck loading bays, with associated lifts (hydraulic aboveground lifts), that service the shipping and receiving area are located on the eastern side of the building. Incoming and outgoing shipments are temporarily staged near the truck bays while check-in and check-out procedures are being completed. No staining was observed on the concrete floor in these areas at the time of the site inspection. The concrete was observed to be of sound structural integrity. Based on this information, no further investigation or action is recommended.

AEC A-5: Piping, above ground and below ground pumping stations, sumps and pits,

AEC C-1: Floor drains, trenches and piping and sumps,

AEC C-2: Process area sinks and piping which receive process waste,

AEC E-3: Underground piping including industrial process sewers, and

AEC E-5: Non-contact cooling water discharges

Historically, two pump stations were located inside the building to regulate the dispensing of alcohol from the underground storage tanks. The pump stations were located in an explosion-proof room equipped with spill containment drains and tanks. Due to the in-place containment systems, which eliminate the potential for environmental impact, no further investigation of the pump stations was previously required by the NJDEP under ISRA Case #E95108. As no change in condition exists, no further action is recommended.

Floor drains and trenches are located throughout the building. The floor drains discharge to the sanitary sewer line that connects to the main sewer located along North Street. The sewer line is monitored for applicable parameters pursuant to the guidelines of the local Publicly Owned Treatment Works (POTW) permit and/or the New Jersey Pollution and Discharge Elimination System (NJPDES) permit for the facility. Trenches and sinks located in such areas utilized for pot washing or floor cleaning are connected to the sanitary line (i.e., spills would only include

water and mild soaps used in washing or food-grade materials). Trenches located within hazardous material storage areas or certain production areas are connected to emergency spill containment ASTs or USTs, depending upon the location. Non-contact cooling water, industrial process waste, and other underground piping are connected to the sanitary sewer line and are subject to sampling and monitoring pursuant to the provisions of the POTW and/or NJPDES permit. The majority of the trenches, sumps, and piping were in place during Florasynth's operations and assessed via ISRA Case #E95108 and no further action was required by the NJDEP. There have been no reported major violations of H&R's POTW/NJPDES permits since H&R's operations. Therefore, no further investigation or action is recommended.

AEC B-1: Storage pads including drum and/or waste storage, and,

AEC B-2: Dumpsters

An exterior storage pad was located on the eastern side of the building. Reportedly, the storage pad was utilized for the staging/storage of drums. An environmental investigation of the storage pad (identified as AOC #11-ISRA Case #E95108) commenced during site remodeling activities in 1998. Soil samples were collected as a result of concrete footer excavation activities. The residual base neutral compounds detected in the soil samples were included in the Deed of Environmental Restriction (Deed Notice) proposed for AOC #11 in the January 16, 2002 RIR/RAW. The area is no longer used for drum storage and is presently covered by competent asphalt. No staining was observed at the time of the site inspection. As such, no further investigation or action for the former exterior storage pad is recommended.

Municipal solid waste is collected in a dumpster located on the south side of the building. No hazardous materials are disposed of in this dumpster. Plastic and metal drums are recycled at the subject property. The drums are separated (i.e., plastic from metal) and placed into appropriate semi-truck trailers staged at the loading dock for shipment to a proper recycling facility. No evidence of significant staining was noted in these areas and the asphalt pad was observed to be of sound structural integrity. Accordingly, no further investigation or action is recommended.

AEC B-3: Chemical storage cabinets or closets

Chemical storage cabinets are located throughout the subject building in the Flavor and the Fragrance areas, and some of the quality control laboratories and pilot testing laboratories. The cabinets are clearly marked (i.e., as containing hazardous, flammable, or corrosive materials) and properly closed and/or locked. At the time of the site inspection, no staining was observed on the floor in the area of the cabinets and the concrete floor was of sound structural integrity. Therefore, no further investigation or action is recommended.

In addition to the chemical storage cabinets, chemicals may be stored in the large refrigerated storage room, the heated storage room, or the explosion proof storage rooms for hazardous materials. Accidental spills from the storage areas would be remedied via the floor drain and spill containment networks, which would properly contain any material. According to H&R representatives, the spill containment network/tanks were empty. At the time of the site inspection, no evidence of spills or staining was observed on the concrete floor of any of the storage areas and the floors were in sound structural integrity. As such, no further investigation or action is recommended.

AEC C-3: Roof leaders when process operations vent to the roof,

AEC E-4: Compressor vent discharges, and

AEC F-3: Air vents and ducts

Laboratory areas, especially those dealing with hazardous materials, are equipped with ventilation hoods. The Flavor test kitchen areas have ventilation (i.e., fans) units above the ovens and stoves. The compressor units and process activities with ventilation to the roof are regulated and monitored via the applicable New Jersey Air Pollution Control permit. As such, no further investigation or action is recommended.

AEC C-4: Drainage swales and culverts, and

AEC C-5: Storm sewer collection systems

A drainage swale, located at the southeastern corner of the subject property, acts as a catchment for surface runoff from the asphalt-paved parking area. In addition, stormwater catchment basins (i.e., storm drains) are located along the main driveway of the southern portion of the subject property. The drainage swale and catchment basins are tied to the sanitary sewer line. This area was previously addressed under ISRA Case #E95108 and the NJDEP granted no further investigation or action. At the time of the ELM site inspection, no standing water was observed. Based upon the absence of any significant exterior storage/ usage of hazardous materials, no further investigation or action is recommended.

AEC D-1: Areas of discharge per N.J.A.C. 7:1E

Remediation of all areas of discharge have been well documented under ISRA Case #E95108. A total of twenty Areas of Concern were previously identified. Fifteen of the AOCs have received No Further Action (NFA) approvals from the NJDEP (Appendix 5). The remaining five AOCs await NFA approval by the NJDEP (Appendix 6). For historical documentation and data, refer to the previous reports submitted to the NJDEP, including the Remedial Investigation/ Remedial Action/ Remedial Action Workplan dated December 4, 1998 and the Remediation Agreement Report dated March 6, 2000.

The January 16, 2002 Remedial Investigation Report/ Remedial Action Workplan documents the remedial activities (i.e., soil and ground water sampling) completed in pursuit of the final No Further Action approval and Case Closure of ISRA Case #E95108. Accordingly, no further investigation or action with regard to these areas is recommended.

AEC E-1: Electrical Transformers & Capacitors

In preparation for the installation of a new electrical system for the subject property, Florasynth, Inc. (previous operator) removed the former electrical transformers previously

located outside the building, in the vicinity of the current transformer compound. The NJDEP requested an environmental investigation, specifically the collection of soil samples and analysis for PCBs. Following the investigation, including soil excavation, the NJDEP granted No Further Action with regard to AOC #12 (associated with ISRA Case #E95108) in correspondence dated April 23, 2001.

Currently, PSE&G-owned, pad-mounted transformers servicing the building are located on the south side of the building, some inside and some outside. The inside transformers are located in a room next to the boiler room and are situated on concrete flooring. The outside transformers are situated on a concrete pad outside the building. The outside transformers were installed in 1992 at the time of building upgrades. As such, it is unlikely that the transformers would contain polychlorinated biphenyls (PCBs). Regardless, no evidence of staining was observed during the site inspection at any of the transformers. Therefore, no further investigation or action of the transformers is recommended.

AEC E-2: Hazardous material storage or handling areas, and

AEC F-4: Hazardous material storage or handling areas

Hazardous materials (i.e., raw materials in sealed containers) are brought in to the warehouse via the shipping and receiving areas, specifically, through the truck loading bays on the eastern side of the building. Incoming and outgoing shipments are temporarily staged near the truck bays while check-in and check-out procedures are being completed. The raw materials (pertaining to both Flavor and Fragrance operations) containing hazardous materials are stored in separate, self-contained, fire-proof rooms within the subject building. Curbs and steps are situated throughout the rooms to provide spill containment, with any materials reaching the floor drains/ trenches diverted to the spill containment tanks (discussed above). A pull-down door also aids in spill containment. At the time of the site inspection, no staining was observed on the concrete floors, which were observed to be of sound integrity. Based on this information, no further investigation or action is required.

AEC E-6: Areas which receive flood or storm water from potentially contaminated areas

According to representatives of Haarmann & Reimer, portions of the subject property, particularly the parking areas, are prone to flooding from severe rainstorms. As the floodwater does not originate from or traverse potentially contaminated areas, no further investigation or action is recommended.

AEC E-7: Active or Inactive Production Wells

A dispersion well and a production well are located near the northeastern portion of the property. The wells (reportedly, 6-inch diameter and 12 feet deep) were installed in 1985 for non-contact cooling and processing operations, and have never been utilized. However, the wells have not been sealed as the operator may elect to utilize the wells in the future. Both wells are properly maintained in accordance with applicable NJDEP requirements, and are capped and locked to prevent unauthorized access. This documentation was also provided in the January 16, 2002 RIR/RAW submitted under ISRA Case #E95108. Therefore, no further issue remains with regard to these wells and no further action is required.

AEC F-2: Boiler rooms

The steam boiler and associated equipment and piping are located in a room along the southern portion of the building. Compressors that serve the building are located in the compressor room. Small containers of new and spent oil for the compressors were staged along the wall in the room. At the time of the site inspection, minor drips of oil from the compressor unit were observed. A representative from H&R cleaned up the drips with an absorbent pad. In the boiler and compressor rooms, no evidence of significant spills or staining was observed on the concrete floors, which were observed to be of sound structural integrity. Based upon the above observations, no further investigation or action with regard to the boiler and compressor rooms is recommended.

APPENDIX 5

Areas of Concern – No Further Remediation/ No Further Action Granted

(Pursuant to ISRA Case #E95108)

APPENDIX 5

Areas of Concern – No Further Remediation/ No Further Action Granted

(Pursuant to ISRA Case #E95108)

With regard to question 9. B.(3) of the Preliminary Assessment form, the following fifteen Areas of Concern have received No Further Action (NFA) approvals from the New Jersey Department of Environmental Protection (NJDEP). Copies of the applicable NFA approval letters are included in this Appendix.

AOC	Location	Status
#1	Stressed Vegetation	NFA issued June 17, 1997
#2	Small Vent Pipes	NFA issued December 13, 1996
#3	Cut Pipe	NFA issued December 13, 1996
#4	White Pipe	NFA issued December 13, 1996
#5	Manhole	NFA issued December 13, 1996
#6	8,00-gallon Alcohol UST No. 1	NFA issued March 23, 1998
#7	Ethyl Alcohol UST No. 2	NFA issued December 13, 1996
#9	Former 10,000-gallon No. 2 Fuel Oil UST	NFA issued March 14, 1997
#10b	Spill Containment UST (Loading Dock)	NFA issued April 23, 2001
#10c	Spill Containment UST (Northeast)	NFA issued April 23, 2001
#12	Former Electrical Transformers	NFA issued April 23, 2001
#13	Asbestos	NFA issued December 13, 1996
#14	Fill Material	NFA issued March 14, 1997
#15	Production/ Reinjection Well	NFA issued December 16, 1996
#18	Motor Fuel USTs (four USTs)	NFA issued April 23, 2001

For historical data results pertaining to these fifteen former Areas of Concern, please refer to the following three reports that have been submitted to the NJDEP: Remedial Investigation/ Remedial Action/ Remedial Action Workplan dated December 4, 1998 (prepared by Baker Environmental, Inc.); Remediation Agreement [Report] in the Matter of Florasynth, Inc. dated March 6, 2000 (prepared by Baker); and, Remedial Investigation Report/ Remedial Action Workplan dated January 16, 2002 (prepared by Environmental Liability Management, Inc.).

Received 4/27/01

File 20162 Agency

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Nicholas Scarpa
300 North Street
Teterboro, NJ 07608

APR 23 2001

Re: Remediation Agreement In the Matter of Florasynth, Inc.
Florasynth, Inc. (Florasynth)
Teterboro, Bergen County
ISRA #E95108
Response to Comments on the Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31,1997, and Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998 dated March 6, 2000

Dear Mr. Freeman:

The New Jersey Department of Environmental Protection (NJDEP) has completed its review of the Response to Comments on the Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31,1997 and the Remedial Investigation/Remedial Action Report and Remedial Action Workplan (RI/RAR/RAW) dated December 4, 1998. The NJDEP's comments regarding the above referenced report are noted below:

I. Soil Comments

A. Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31, 1997

1. Florasynth Response:

NJDEP on March 23, 1998 issued a "No Further Investigation Approval Letter".

NJDEP Requirements:

No Further Investigation is still acceptable.

B. Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998:

1. Florasynth Response:

Florasynth submitted revised summary tables of laboratory analysis results for post-excavation samples in AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil Underground Storage Tank (UST), AOC#10: Spill Containment UST, AOC#11: Storage Area (Exterior) and AOC#17: Potwash Area, with an additional column comparing the results to the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) or Impact to Groundwater Soil Cleanup Criteria (IGWSCC), as appropriate. Based on the results shown in these tables, Deed Notices are proposed for AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil UST, AOC#11: Storage Area (Exterior), and AOC#17: Potwash Area, where levels of contamination above

RDCSCC remain. No further action is proposed for AOC#10: Spill Containment UST, AOC#12: Former Electric Transformers, and AOC#18: Motor Fuel Oil UST as no results above RDCSCC were found.

NJDEP Requirements:

NJDEP will comment on Florasynth's proposal for NFA at AOC#10: Spill Containment UST, AOC#12: Former Electric Transformers, and AOC#18: Motor Fuel Oil UST in those respective sections below.

2. Florasynth Response:

Florasynth concurs that AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil UST, AOC#10: Spill Containment UST, AOC#11: Storage Area (Exterior), AOC#12: Former Electric Transformers, AOC#16: Groundwater and AOC#17: Potwash Area have not received "No Further Action" approval from NJDEP. With respect to AOC#14: Fill Material, our records confirm that in a letter dated March 14, 1997 from Stephen Maybury of NJDEP to David J. Freeman of Battle Fowler, under Item I, referencing the fill material for the former 10,000-Gallon, #2 Fuel Oil UST (which is AOC#14: Fill Material) "... the Department has determined that no further action is required in this area with regard to soils issues." This letter addresses AOC#1: Stressed Vegetation, AOC#9: Former 10,000-Gallon #2 Fuel Oil UST and AOC#14: Fill Material.

NJDEP Requirements:

The issue of fill material on site arises from the Site Investigation (SI) Report which stated that three subsurface zones exist in the first 12 feet below grade. The first zone consisted of primarily [historic] fill material. This zone was found in areas anywhere from grade to 6 feet in depth. If Florasynth claims it is a source of contamination, then they are required to address this fill material pursuant to the Technical Requirements for Site Remediation (TRSR) at N.J.A.C. 7:26E and S-1070.

3. Florasynth Response:

Soil samples collected for volatile organic analysis under the original, approved Remedial Investigation Workplan (RIW) were collected from acetate tubes driven by a macro core sampler, in accordance with the NJDEP Field Sampling Procedures Manual. Later soil samples collected for volatile organic analysis were collected in accordance with the field procedures for extraction/preservation by methanol extraction using a modified 10cc syringe to obtain the sample from the acetate tube driven by the macro core sampler.

NJDEP Requirements:

NJDEP accepts Florasynth's response.

4. AOC #8: Abandoned 20,000-Gallon No. 4 Fuel Oil UST

NJDEP Requirements:

NJDEP conditionally accepts Florasynth's responses. Florasynth shall explain what all the dashed lines mean in the figure in Attachment G.

5. **AOC #10: Spill Containment Tanks**

NJDEP Requirements:

NJDEP accepts Florasynth's responses for AOC #10.

NJDEP accepts Florasynth's response concerning Attachment J.

NJDEP reviewed the Analytical Data Report prepared by Integrated Analytical Laboratories, LLC., New Jersey Certified Lab # 14751. The data packages were complete. The results are acceptable as presented.

NJDEP conditionally accepts Florasynth's response in Attachment K. Florasynth should include the Polycyclic Aromatic Hydrocarbons (PAH's), whose concentration exceeded the RDCSCC, that were in post-excavation sample X43-2 in the Deed Notice.

6. **Florasynth Response:**

Florasynth should not be required to delineate the extent of arsenic at X43-2 and X48-6. Current and historic industrial site uses include flavor and fragrance blending and a winery operation. There is no indication that arsenic or arsenic containing compounds were ever used in these processes. Florasynth does not believe the source of elevated levels of arsenic is associated with any process or specific source at the site and arsenic may be attributable to natural background or historic fill. Further, this area is currently paved and no exposure pathway exists.

NJDEP Requirements:

Arsenic concentrations cannot be attributed to historic fill and natural background. Florasynth shall decide if the contaminant concentration is attributable to natural background or historic fill. Florasynth shall provide a proposal for the arsenic concentrations. Florasynth shall follow the Technical Requirements for Site Remediation (TRSR) at N.J.A.C. 7:26E-3.10 for natural background proposals and N.J.A.C. 7:26E-4.6,

7. **AOC #11: Exterior Storage Area**

NJDEP Requirements:

NJDEP conditionally accepts Florasynth's response. The Revised Figure 6, GP-11, shall be revised to be consistent with Revised Table 2. Specifically, in Figure 6 Revised, GP-11 lists ND sample results for Base Neutrals for soil samples collected at a depth of 2.5-3 feet bgs. In Table 2 Revised, there were no samples collected at a depth of 2.5-3 feet bgs. Therefore, Florasynth is claiming ND results for Base Neutrals for samples which were not collected. Given that during the winter of 1998 the exterior storage area was demolished, and that portions of the existing asphalt pavement were excavated, and that subgrade soils were disturbed to remove concrete footings, Florasynth shall provide a report, including a diagram, of what was removed, along with evidence as to where it was removed.

8. **AOC #12: Former Electrical Transformers**

NJDEP Requirements:

The remediation of the AOC #12: Former Electrical Transformers has been completed at this time. A No Further Action/Covenant Not To Sue will be issued for the industrial establishment at the completion of the ISRA case and after the filing of all applicable institutional controls.

9. AOC #17: Pot Wash Area

Reduced Deliverables QA/QC information is included in Attachment M (bound separately).

NJDEP Requirements:

NJDEP reviewed the Laboratory Data Deliverables in Attachment M. The Analytical Data Reports were prepared by Accredited Laboratories, Inc., New Jersey Certification Number 12007. The Technical Director at Accredited Laboratories, Inc. as of the date of the reports, 7/28/97, was Dr. Yun-shen Lee. Dr. Lee now works in NJDEP/BEMQA/QAS. Paul Nutkowitz conferred with Dr. Lee and he confirmed that the comment "Upgrade to Reduced Package.", September 9, 1997 was his comment. The data packages were complete. The results are acceptable as presented.

NJDEP conditionally accepts Florasynth's response. In Attachment M, AOC#17: Remedial Action Summary, page 2, concerning soils adjacent to the building, "Twelve post-excavation samples were collected from this area. In sample PE-5B, 1,1,2,2-Tetrachloroethane was detected at 11 ppm, exceeding the IGWSCC of 1 ppm; diethylphthalate was detected at 470 ppm, exceeding the IGWSCC of 50 ppm." In addition, "The results of analysis for soil samples A and B revealed levels of diethylphthalate in samples B-1 and B-2 of 91 ppm and 120 ppm respectively, exceeding the IGWSCC of 50 ppm." Since there are still contaminants in the soil underneath the building, in addition to a Deed Notice, Florasynth may be required to remediate the contaminants in the soil based upon the results of ground water sampling and studies.

In Attachment M, AOC#17 Remedial Action Summary, page 1, it states that "The area near F5 was then excavated. ... As the excavation progressed, contamination was observed to migrate along the gravel base of the storm sewer line. ... Additional contamination was visually observed beneath the pipe but could not be accessed until the pipe was relocated." That storm sewer line extended south beyond the edge of the current, existing building. Florasynth shall bore through the asphalt south of the current existing building, down to the depth of the former (or existing) storm sewer pipe and collect soil samples for analysis of Volatile Organic Compounds with Forward Library Search (VOC+10) and Base Neutrals (BN) extractable organics. Florasynth shall also provide NJDEP with a diagram of the current, existing storm sewer lines.

10. AOC #18: Motor Fuel USTs

NJDEP Requirements:

The remediation of the AOC #18: Motor Fuel USTs has been completed at this time. A No Further Action/Covenant Not To Sue will be issued for the industrial establishment at the completion of the ISRA case and after the filing of all applicable institutional controls.

II. Ground Water Comments

A. Remedial Action Workplan

1. AOC #8: (20,000-Gallon Fuel Oil UST) and AOC #16: (Ground Water)

In 1997, four passively-placed narrow diameter points (PPNDP), GP-25, GP-32, GP-34, and GP-35 were driven in Geoprobe borings to determine the impacts of the former 20,000-Gallon UST on groundwater quality. Analytical results revealed that benzene exceeded its 1 ppb GWQS in GP-25 (3 ppb), and bis (2-ethylhexyl) pthalate was found above its 30 ppb GWQS in GP-32 (39 ppb) and in GP-34 (870 ppb). VOC Tentatively Identified Compounds (TICs) were identified at a concentration of 1,161 ppb in GP-25, and BN TICs were identified at a concentration of 1,504 ppb, 2,209 ppb, and 5,720 ppb in GP-25, GP-34, and GP-35, respectively.

Proposal

Florasynth states that the contamination appears to be localized to the vicinity of the former UST. Since the UST system and contaminated soils were removed, concentrations in ground water can be expected to attenuate over time. Florasynth considers the perched water encountered in the PPNDPs is "trapped water" which is not considered a true aquifer. The varved silts and clays act as an aquitard and prevent vertical migration of any contaminants in the perched zones to underlying aquifer units.

NJDEP Requirements

NJDEP would like to clarify that ground water includes perched water, and that the ground water quality criteria in N.J.A.C. 7:9-6 apply to all ground water without distinction as to whether or not that ground water is perched. Although remedial decisions for contaminated ground water are based largely on the risks posed to potential receptors, the nature and extent of contamination must be delineated and a CEA must be designated for the impacted area.

As noted above, with the exception of the PPNDP sampling effort, no ground water investigation has been conducted at this site to date. It should also be noted PPNDPs are considered field screening tools, and that, per the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, field screening data must be confirmed by data from monitor wells installed and constructed in accordance with N.J.A.C. 7:26E-4.4(g) and the specifications in Appendix 7-1 of the 1992 *Field Sampling Procedures Manual*. The samples obtained from PPDNP are generally far more turbid than samples collected from properly developed monitor wells, which may result in sample analyses that are biased high, particularly for compounds that have a high affinity for soils (e.g., metals and base neutrals). Even though the source of the contamination has been removed and remaining dissolved contamination can be expected to attenuate over time, verification of the contaminants present and their concentrations is needed so that this data can be used to designate a CEA for the impacted ground water. Florasynth shall propose a location for a permanent monitor well in the vicinity of the former 20,000-gallon UST in accordance with N.J.A.C. 7:26E-4.4(f). This well shall be sampled for VOC +10 and BN +15. If this sampling confirms the presence of elevated TICs, Florasynth shall address the TICS pursuant to N.J.A.C. 7:26E-2.1(e).

2. AOC #10: (Spill Containment Tanks)

Three spill containment USTs connected to floor drainage systems within the facility are/were designed to intercept and contain accidental spills. Two of these tanks (10b and 10c) are still in place but closure under approved plans will be conducted in the future. The rear spill containment UST tank (10a) was closed by removal during October 1997. Soil borings in the vicinity of tanks 10b and 10c did not identify any exceedences of the NJDEP soil cleanup criteria. Pre-excavation soil borings performed near tank 10a revealed methylene chloride above its IGWSCC of 1 ppm at concentrations ranging from 2.3 – 17 ppm in three soil samples. These samples ranged in depth from 0.5 – 5 feet below grade. The tank bottom was

4.5 feet below ground surface. and excavation reportedly was conducted to a depth of 6 feet. No ground water sampling was conducted for AOC #10a.

Proposal

In a previous report, Florasynth stated that the rear spill containment UST was successfully closed and associated contaminated soils were removed. In the March 6, 2000 RAW, additional information/clarification regarding the soil sampling is provided but no recommendations are made for a groundwater investigation.

NJDEP Comments

Although the tank and associated contaminated soils have been removed, exceedences of the IGWSCC for methylene chloride during the RI boring program were identified, and groundwater sampling is required to determine whether ground water has been impacted. Although groundwater apparently was not encountered in the excavation area, the depth of the excavation is about 6 feet below grade, and perched ground water may exist below this depth. Perched water was encountered in about 20 borings installed near AOC #8, which is located approximately 30 feet northeast of tank 10a.

Florasynth shall obtain ground water samples proximate to former tank 10a and analyze the samples for VOC +10 and BN +15.. Florasynth may use PPNDP to conduct the sampling, but is advised that, since a permanent monitor well may be required to verify the results of the field screening, installation of a permanent well at this location may be more prudent. The well screen shall be set at the first water encountered. If Florasynth can demonstrate that at least five feet of clay is present in this location between the bottom of the excavation (6 feet below grade) and first water, a ground water sample will not be required.

3. AOC #11: Exterior Storage Area

A storage pad area located on the paved surface of a parking lot was used for storage of miscellaneous items including storage containers. A large Above Ground Storage Tank (AST) containing propylene glycol was also located in this area. Staining had been observed on the pavement overlying the storage pad, and a series of soil borings were conducted during the RI and following demolition of the storage pad area, which included removal of the AST. A strong pungent odor had been observed when soil disturbance associated with demolition occurred. Soil samples were analyzed for VOs and BNs; no exceedences of the IGWSCC were identified. Florasynth believes that BNs above the RDCSCC are attributable to the asphalt and fill material in this area. Ground water was not encountered in soil borings obtained in this area.

Proposal

No proposals concerning ground water investigation are included in the RAW.

NJDEP Comments

Since no IGWSCC were exceeded during the soil sampling efforts, ground water sampling in this area is not required.

4. AOC #12: (Former Electrical Transformers)

The former electrical transformers were located exterior to the south side of the building adjacent to the maintenance area, north of AOC #10a and west of AOC #8. The transformers had been removed prior to the RI and replaced with a new electric supply system. Soil sampling was conducted in this area, and a PPNDP was driven into boring GP-35 and analyzed for TPHC and BN+15 analyses to delineate petroleum contamination associated with the former 20,000 -Gallon #4 Fuel Oil UST (AOC #8). Ground water was not encountered initially in the soil boring and was observed to seep into the boring slowly from beneath the concrete slab. No exceedences of the soil cleanup criteria were found in the borings; ground water samples from the PPNDP (GP-35) did not disclose any targeted compounds above the GWQS. BN TICs believed to be associated with the degradation of fuel from AOC #8 were detected in the ground water sample.

Proposal

Florasynth believes that no additional sampling and analysis is needed for this area.

NJDEP Comments

No additional ground water investigation is necessary for this AOC since no IGWSCC were exceeded during the soil boring program, and the BN TICS identified in the PPNDP sampling are associated with AOC #8.

5. AOC #17: (Pot Wash Area)

During construction of a building addition, four pipes leading from the pot wash area inside the building to the building exterior were uncovered during excavation. Potentially contaminated soils observed at two locations were field screened, excavated, and stockpiled on-site. The discharges were believed to originate from the pot washing room, and pot washing operations were discontinued and measures implemented to cease the discharge.

About 5,520 tons of soil were excavated to a depth of about 5 feet and transported off-site as non-hazardous waste. No ground water was observed in the excavation. Because of the proximity to the building foundation, it was determined that additional soils could not be excavated without compromising the integrity of the building. Additional soils were collected for analysis to document the concentrations of contaminants in soils left in place. The contamination was found to be flavor and/or fragrance oils, similar in appearance to petroleum products. Post-excavation samples were analyzed for Total Petroleum Hydrocarbons (TPHC) and the samples with the highest TPHC results were also analyzed for VOCs. All samples were analyzed for BNs.

In several post-excavation samples collected adjacent to the building, exceedences of IGWSCC were identified. In sample PE-5B, 1,1,2,2-tetrachloroethane was detected at 11 ppm (IGWSCC = 1 ppm), and diethylphthalate was detected at 470 ppm (IGWSCC = 50 ppm). Sample results for soil samples A and B revealed diethylphthlate in samples B-1 and B-2 of 91 ppm and 120 ppm, respectively.

Proposal

Florasynth had previously proposed no further cleanup activities since the post-excavation soil samples had levels only slightly above NJDEP's soil cleanup criteria. No groundwater investigation was proposed previously or in the March 7, 2000 RAW. Florasynth states that a clay layer exists at about 5 feet below ground surface, which will minimize infiltration of remaining contaminants.

NJDEP Comments

Since soil sampling performed adjacent to the building reveal exceedences of IGWSCC and it is likely that IGWSCC are exceeded beneath the building where additional excavation will not be conducted, ground water sampling is required to verify whether this AOC has impacted ground water quality. Florasynth shall sample ground-water within 10 feet of this AOC and shall analyze the samples for VOC +10 and BN +15. Florasynth may use PPNDP to conduct the sampling, but is advised that, since contaminated soils are proposed to be left in place beneath the building, installation of a permanent well at this location will be required; therefore, installation of a permanent well in lieu of a PPNDP at this time may be more prudent. The well shall be installed and constructed in accordance with N.J.A.C. 7:26E-4.4(g) and the specifications in Appendix 7-1 of the 1992 *Field Sampling Procedures Manual*. The well screen shall be set at the first water encountered.

6. AOC #18: (Motor Fuel USTs)

Four motor fuel USTs were identified during construction activities conducted at the site during the winter of 1997 – 1998. Liquids sampled from the USTs suggest that the UST system formerly contained leaded gasoline. The capacity of the tanks ranged from 1,500 – 3,000-Gallons, and depths ranged from 8.5 – 9 feet below ground surface (bgs). The tanks were closed in 1998 under approved closure plans. Corrosion holes were observed in each of the UST systems. Groundwater was not observed in any of the excavations. Pre- and post-excavation soil samples did not identify any contaminants of concern exceeding NJDEP's soil cleanup criteria.

Proposals

No ground water investigation is proposed.

NJDEP Comment

Since no IGWSCC were identified during the soil sampling effort, and groundwater was not encountered in the excavations or the borings, no groundwater investigation is necessary for this AOC.

B. Ground Water Conditions

In its January 3, 2000 response letter, NJDEP had directed Florasynth to address the groundwater contamination identified in the PPNDP near AOC #8 and to substantiate that the varved silts and clays are of sufficient depth to preclude vertical migration of the contaminants from this and other AOCs to underlying aquifers.

Proposal

Florasynth response is that, since ground water is perched, no additional groundwater investigation is needed. Florasynth does not consider perched water to be true ground water. Since most sources have been removed, and the amounts of VOCs and BNs detected in the perched water near AOC #8 are minor and limited in extent, no additional work is warranted. Florasynth references the logs included in the Attachment P as sufficient evidence that the varved silts and clays pose a barrier to vertical contaminant migration.

NJDEP Comments

Comments concerning groundwater investigation at specific AOCs are included in the section above. NJDEP reiterates that perched water is considered ground water, and that the presence, nature, and extent of contamination attributable to site operations must be determined so that a CEA can be designated for the impacted ground water.

The location of the 281-foot dispersion well referenced in the RAW shall be indicated on a map. Additionally, Florasynth proposes to seal the two wells on-site in accordance with NJDEP regulations. NJDEP assumes that these are the two wells located near the northeastern corner of the property, and that they are not monitoring wells. Clarification regarding this issue shall be provided.

III. General Requirements

1. Pursuant to the referenced Remediation Agreement, Florasynth, Inc. shall perform all actions as outlined in the RIW, and conditioned in this letter. If any change in methods outlined in the RIW is necessary, Florasynth, Inc. shall inform BEECRA in writing prior to implementation.

2. Florasynth, Inc. shall submit summarized analytical results in accordance with the Technical Requirements For Site Remediation (TRSR), N.J.A.C. 7:26E.

3. Florasynth, Inc. shall submit the results or additional work plans, in triplicate. Please note that only one copy of the Quality Assurance/Quality Control Deliverables is needed.

4. Florasynth, Inc. shall notify the Case Manager at least 14 calendar days prior to implementation of all field activities included in the RIW. If Florasynth, Inc. fails to initiate sampling in accordance with the approved schedule, any request for an extension may be denied.

5. Florasynth, Inc. shall collect and analyze all samples in accordance with the sampling protocol outlined in the most current edition of the NJDEP's "Field Sampling Procedures Manual" and Technical Requirements for Site Remediation (TRSR), N.J.A.C. 7:26E.

6. Florasynth, Inc. shall submit a revised schedule, pursuant to N.J.A.C. 7:26E-6.5, for NJDEP approval which includes all tasks associated with the remediation of the site **within thirty (30) calendar days** of the receipt of this letter.

7. Any proposal to leave contaminant concentrations on-site exceeding the NJDEP's current residential cleanup criteria, shall be in accordance with the Technical Requirements for Site Remediation N.J.A.C. 7:26E-5.1 and 5.2. Florasynth, Inc. shall also submit proof of acceptance of the non-residential cleanup criteria by the current property owner.

8. Pursuant to the TRSR, N.J.A.C. 7:26E-3.13(c) 3v, all analytical data shall be presented both as a hard copy and an electronic deliverable using the database format outlined in detail in the current HAZSITE application or appropriate spreadsheet format specified in the NJDEP's electronic data interchange manual.

   For further information related to electronic data submissions, please refer to the Site Remediation Program's (SRP's) home page at the following internet address: **http://www.state.nj.us/dep/srp** The **Regulations and Guidance** page of this web site has a section dedicated to HazSite which includes downloadable files, an explanation of how to use these files to comply with the NJDEP's requirements, the SRP's Electronic Data Interchange (EDI) manual, and **Guidance for the Submission and Use of Data In GIS Compatible Formats Pursuant to "Technical Requirements for Site Remediation"**.

If you have any questions, please contact the Case Manager, Sylvia Pearce, at (609) 633-1414.

Sincerely,

Lois Arbegast

Lois Arbegast, Supervisor
Bureau of Environmental Evaluation,
Cleanup and Responsibility Assessment

C: Paul Nutkowitz, NJDEP/BEERA
Derek Carano, NJDEP/BGWPA
Elizabeth Fernandez-Obergon, NJDEP/BGWPA
Mark Guarino, Bergen County Health Officer
Jack Friedman, Florasynth Inc.

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PRINCETON, NJ

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

David J. Freeman
Battle Fowler
75 East 55th Street
New York, NY 10022

Re: Remediation Agreement in the Matter of Florasynth, Inc.
Teterboro, Bergen County
ISRA Case # 95108
UST # 0228675

Dear Mr. Freeman:

Pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (Department) and duly delegated to the Section Chief of the Bureau of Field Operations pursuant to the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21 et seq. and implementing regulations, N.J.A.C. 7:14B et seq., the referenced No Further Investigation proposal for the below referenced area of concern (AOC) is hereby approved. This closure consisted of the removal of an alcohol underground storage tank, and all associated piping. The results of the soil analysis indicated contaminant levels were below the cleanup criteria developed for this site. Pursuant to N.J.A.C. 7:26E, a ground water investigation was not required.

This approval is based on the information provided to the Department concerning the satisfactory completion of the Site Assessment Report received on November 5, 1997 in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

This approval shall be limited only to the above referenced AOC, the condition of such areas as of the date of this letter, and shall not be construed to address any other areas of the site. This No Further Investigation Approval Letter shall not restrict or prohibit the Department or any other agency from taking regulatory action under any other statute, rule or regulation. By issuing this No Further Investigation Approval Letter, the Department reserves its right to pursue any penalties allowable under the law for violations pursuant to the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21 et seq. and implementing regulations, N.J.A.C. 7:14B et seq., or any other statute, rule or regulation.

Sincerely,

John Graham, Supervisor
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

c: Paul Nutkowitz, BEERA
Derek Carano, BGWPA
Mark Guarino, Bergen County Department of Health Services
Peter Sparaco, Florasynth, Inc.
Susan I. Baer, Esq., Bayer AG - Haarmann Reimer Corporation
Jack Friedman, Florasynth, Inc.
Laura Conradi, Baker Environmental, Inc.

201-612-1382

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

MAR 14 1997

David J. Freeman
Battle Fowler
75 East 55th Street
New York, NY 10022

Re: Remediation Agreement in the Matter of Florasynth, Inc.
Teterboro, Bergen County
ISRA Case # 95108
Sampling Results Dated: January 7, 1997

Dear Mr. Freeman:

Please be advised that the New Jersey Department of Environmental Protection (NJDEP) has completed its review of the above referenced Sampling Results. The NJDEP's comments regarding the Sampling Results are noted below:

I Soil Comments AOC#1

Stressed Vegetation - Florasynth, Inc. collected a surficial soil sample in this Area of Concern (AOC). The laboratory results indicated that a composite sample was collected. However, after discussions with Peter Sporacco at the facility during a site inspection on February 26, 1997, it was determined that the sample was not a composite sample as described in the Department's Field Sampling Procedures Manual (May 1992). Based on this information and a review of the sampling results, the Department has determined the sampling results for this area to be acceptable with the exception of those results for volatile organic compounds (VOCs). Sampling procedures as outlined in the Technical Requirements for Site Remediation (TRSR) were not followed. Therefore, the Department has determined the results with regard to VOCs to be unacceptable. Specific guidelines regarding sampling procedures for VOCs can be found in the TRSR, 7:26E-3.6. Florasynth shall collect one additional sample in this area and analyze this sample for VOCs as per the TRSR. TRSR VOC's unacceptable

Former 10,000 gallon #2 Fuel Oil UST AOC#9

The requirements for fill material used to restore a site after remediation are found in N.J.A.C. 7:26E, the Technical Requirements for Site Remediation, at section 6.4(b), Post Remedial Action Requirements. In order to avoid any unnecessary delays or mistakes associated with the fill material used on a site, these requirements should be reviewed by the party conducting remediation as soon as it is determined that remedial action for soil will be necessary. Delays in case closure result whenever it cannot be verified that fill material used on the site is in compliance with the Technical Requirements.

AOC # 14

Fill material used to restore a site after remediation has been completed shall be similar in physical properties to the material removed unless otherwise approved in advance by the NJDEP. The use of fill that differs in physical properties, such as increased permeability, can adversely influence rain water infiltration, ground water movement and contaminant mobility and migration in the filled area of the site.

HFA

In an effort to determine the cleanliness of the backfill material (concrete aggregate) used in this area, Florasynth, Inc. collected one sample from this area and analyzed it for Priority Pollutants+40. The sampling results indicated that the concrete aggregate is uncontaminated pursuant to applicable remediation standards. Based on this information, the Department has determined that no further action is required in this area with regard to soils issues.

Florasynth, Inc. should note that if it is determined, through ground water investigation, that the backfill material is adversely impacting ground water quality, the Department reserves the right to reopen this area of concern.

II General Requirements

WP

1. Florasynth, Inc. shall submit the results or additional work plans, in triplicate, in accordance with the approved schedule. Please note that only one copy of the Quality Assurance/Quality Control Deliverables is needed.

RA Schedule

2. Florasynth, Inc. shall submit a revised Remedial Action Schedule, pursuant to N.J.A.C. 7:26E-6.5, for NJDEP approval which includes all tasks associated with the remediation of the site within thirty (30) calendar days of the receipt of this letter.

3. Florasynth, Inc. shall submit summarized analytical results in accordance with the Technical Requirements For Site Remediation, N.J.A.C. 7:26E.

SAMPLING

4. Florasynth, Inc. shall collect all samples in accordance with the sampling protocol outlined in the May, 1992 edition of the NJDEP's "Field Sampling Procedures Manual".

5. Florasynth, Inc. shall notify the assigned BEECRA Case Manager at least 14 calendar days prior to implementation of all field activities included in the Remedial Action Workplan. If Florasynth, Inc. fails to initiate sampling within 30 calendar days of the receipt of this approval, any requests for an extension of the required time frames may be denied.

ISRA Fee Rule

6. On February 22, 1994, the New Jersey Department of Environmental Protection (NJDEP) promulgated the ISRA Fee Rule amendments at 26 N.J.R. 1142, which were proposed on April 5, 1993 at 25 N.J.R. 1375. Pursuant to the fee rule amendments, the NJDEP will bill an owner or operator according to the direct billing formula at N.J.A.C. 7:26B-1.10(f)2. At this time, the NJDEP intends to process bills on a semi-annual basis. The NJDEP encourages responsible parties to use the "Technical Requirements for Site Remediation" (N.J.A.C. 7:26E) as well as any other current NJDEP guidance documents to assist in remediation activities and thereby minimize NJDEP review time. The complexity of the environmental contamination at the site and the quality of the workplans and reports submitted to the NJDEP will dictate the oversight costs to the regulated community.

Estimate Remain
Cost of Cleanup

7. Pursuant to N.J.S.A. 58:10B-3, a remediation funding source is to be established in an amount equal to or greater than the cost estimate of the implementation of the remediation and shall be in effect for a term not less than the actual time necessary to perform the remediation at the site. N.J.S.A. 58:10B-3 allows for a change of the amount in the remediation funding source as the cost estimate changes. Please provide the current estimated cost of the remaining remediation required at the site. Any increases in the estimated cost estimate will require an increase in the amount in the Remediation Funding Source to an amount at least equal to the new estimate. Any requests to decrease the amount in the remediation funding source will be reviewed and approved by the NJDEP upon a finding that the current remediation cost estimate will be sufficient to fund all necessary remediation.

If you have any questions, please contact the Case Manager, Kathleen Schrier, at (609) 633-1427.

Sincerely,

Stephen Maybury, Acting Bureau Chief
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

c: Paul Nutkowski, BEERA
Gary Smarsh, BGWPA
Mark Guarino, Bergen County Department of Health Services
Peter Sparaco, Florasynth, Inc.
Bayer AG Bayer-Werk

APPENDIX 6

Areas of Concern – Currently Awaiting Receipt of No Further Action Approval

(Pursuant to ISRA Case #E95108)

APPENDIX 6

Areas of Concern – Currently Awaiting Receipt of No Further Action Approval

(Pursuant to ISRA Case #E95108)

With regard to question 10 of the Preliminary Assessment form, the following five Areas of Concern are awaiting from the New Jersey Department of Environmental Protection (NJDEP) No Further Action (NFA) approvals, conditioned upon the existing engineering and proposed institutional controls (i.e., Deed Notice and Classification Exception Area). The January 16, 2002 Remedial Investigation Report/ Remedial Action Workplan which was submitted to the NJDEP at that time documents the remedial activities (i.e., soil and ground water sampling) completed in pursuit of the conditional No Further Action approvals and Case Closure of ISRA Case #E95108.

AOC	Location	Applicable Section of the January 16, 2002 RIR/RAW
#8	Abandoned 20,000-gallon No. 4 Fuel Oil UST	Refer to Section 3.1 of this report.
#10a	Spill Containment UST (Rear)	Refer to Section 3.2 of this report.
#11	Storage Area (Exterior)	Refer to Section 2.2 of this report.
#16	Ground Water	Addressed Per Specific AOC.
#17	Potwash Area	Refer to Section 3.3 of this report.

For historical data results pertaining to these five Areas of Concern, please refer to the following two reports that have been submitted to the NJDEP: Remedial Investigation/ Remedial Action/ Remedial Action Workplan dated December 4, 1998 (prepared by Baker Environmental, Inc.); and the Remediation Agreement [Report] in the Matter of Florasynth, Inc. dated March 6, 2000 (prepared by Baker).

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION
CN 028, TRENTON, NEW JERSEY 08625-0028

PRELIMINARY ASSESSMENT REPORT

Please refer to the instructions and the Technical Requirements for Site Remediation, N.J.A.C. 7:26E-3.1 through 3.2., before completing this form. Answer all questions. Should you encounter any problems in completing this form, we recommend that you discuss the matter with a representative from the Site Remediation Program. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction. Please call (609) 633-7141 between the hours of 8:30 a.m. and 4:30 p.m. to request assistance.

PLEASE PRINT OR TYPE

Date: May 1, 1995

Industrial Establishment/Site Name: Florasynth, Inc.

Address: 300 North Street

City or Town: Teterboro Zip Code: 07608

Municipality: Teterboro County: Bergen County

Lot(s): 4 Block: 6

Site Remediation Program Case Number or EPA Identification Number:

ISRA Case # 95108
EPA ID# NJD070570122

1. Operational and Ownership History from the time the site was naturally vegetated or used as farmland. (Attach additional sheets if necessary).

Name	Owner/ Operator	From	To
Julian Weis, Winery	Julian Weis, Winery	1950	1975
Florasynth, Inc.	Florasynth, Inc.	1975	Current

2A. Provide a brief description of the past operation(s) (e.g., industrial/commercial) conducted on site by each owner and operator (Attach additional sheets if necessary).

The property was first established for industrial usage by Julian Weis Winery. The Site facilities were initially constructed for winery operations and bottling by Julian Weis. The Site was purchased by Florasynth and has been used for blending and development of fragrances and flavors since the site was purchased in 1975.

Revision Nº: __
Revision Date: _____

2B. Include a detailed description of the most recent operations subject to this preliminary assessment (Attach additional sheets if necessary).

Florasynth uses the Site facilities for the development and formulation of flavors and fragrances. This includes quality assurance/quality control laboratory operations, product research and development, product marketing, and material blending, storage, and packaging.

3. Hazardous Substance/Waste Inventory: List all raw materials, finished products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants, including intermediates and by-products that are or were historically present on the site (Attach additional sheets if necessary).

The 1992 Community Right To Know Survey for 1992, Dated April 1, 1993 is included as Attachment 1.

4. Summary of Wastewater Discharges of Sanitary and/or Industrial Waste and/or sanitary sludges: present and past production processes, including dates, and their respective water use shall be identified and evaluated, including ultimate and potential discharge and disposal points and how and where materials are or were received on-site. All discharge and disposal points shall be clearly depicted on a scaled site map.

A. Provide a narrative of disposal processes for all process waste streams and disposal points. (Attach additional sheets if necessary)

All industrial wastewater is currently and has always been discharged to the Bergen County Utilities Authority Treatment Works under an Industrial Wastewater Discharge Permit which is renewed annually. A permit for the facility has been secured ever since a permit has been required by the Utility Authority; a copy of the current permit, No. 94-0068 is provided as Attachment 2 to this report. Details of current and historical sampling frequency and analytical results are also provided in Attachment 2. No industrial or sanitary sludges are generated. All solid waste is transported off-site to a municipal landfill. Lab-Pack wastes composed of waste solvent mixtures (370 gallons in 1994) transported by HAZ-MAT Environmental Group, Inc. (EPA ID# NYD980769947) and TRI-S, Inc. (EPA ID#CTD016424210) for disposal by Northeast Environmental Services (EPA ID#NYD057770109).

B. Discharge Period:

From	To	Discharge Type and Quantity, if known	Discharge/Disposal Point
1994	Present	Industrial Wastewater 2,000 - 4,999 gpd	P.O.T.W.

5. In accordance with N.J.A.C. 7:26E-3.2(a) 3.i, provide a scaled site plan, depicting the site boundaries, known limits of fill, paved and unpaved areas, structures and any of the potential areas of environmental concern listed below.

In accordance with N.J.A.C. 7:26E-3.1(c)1.v., a narrative shall also be provided for each area of concern describing the (A) Type; (B) Age; (C) Dimensions of each container/area; (D) Chemical Content; (E) Volume; (F) Construction materials; (G) Location; (H) Integrity (i.e., tank test reports, description of drum storage pad); and (I) Inventory control records, unless a Department-approved leak detection system, pursuant to N.J.A.C. 7:1E or 7:14B, has always been in place and there is no discharge history. A site investigation must be completed in accordance with N.J.A.C.7:26E-3.10 for all areas which require sampling.

Area of Concern	Currently/Formerly exists at facility Yes/No	Location Reference Keyed to Site Map	Sampling Proposed Yes/No	Narrative provided to support proposal Yes/No
A. Bulk storage tanks and appurtenances, including, without limitation:				
Aboveground Tanks and associated piping	Yes	A	No	Yes
Underground Tanks and associated piping	Yes	B	Yes	Yes
Silos	No	N/A	N/A	N/A
Rail Spurs or Sidings	No (Historically Yes)	N/A	N/A	Yes
Above or below ground pump stations	Yes	C	No	Yes
Sumps	No	N/A	N/A	N/A
Pits	No	N/A	N/A	N/A
Rail/Truck loading and unloading areas	No	N/A	N/A	N/A
Storage pads and areas including Drum and/or waste storage	Yes	D	Yes	Yes
Surface lagoons and impoundments	No	N/A	N/A	N/A
Dumpsters	Yes	E	No	Yes
Chemical storage cabinets or closets	Yes	F	No	Yes

Revision Nº: ___
Revision Date: _____

Area of Concern	Currently/Formerly exists at facility Yes/No	Location Reference Keyed to Site Map	Sampling Proposed Yes/No	Narrative provided to support proposal Yes/No
B. Drainage systems and areas, including, without limitation:				
Floor drains or trenches and piping	Yes	G	No	Yes
Process area sinks and piping which receive process waste	No	N/A	N/A	N/A
Roof leaders when process operations vent to roof	Yes	H	No	Yes
Drainage swales and culverts	Yes	I	No	Yes
Storm sewer collection systems	Yes	J	No	Yes
Storm water detention ponds and fire water ponds	No	N/A	N/A	N/A
Surface water bodies	No	N/A	N/A	N/A
Septic systems, leachfields or seepage pits	No	N/A	N/A	N/A
Dry wells	No	N/A	N/A	N/A
C. Discharge and disposal areas, including, without limitation:				
Waste piles	No	N/A	N/A	N/A
Landfills or landfarms	No	N/A	N/A	N/A
Sprayfields	No	N/A	N/A	N/A
Incinerators	No	N/A	N/A	N/A
Open Pipe Discharges	No	N/A	N/A	N/A

Revision Nº: ___
Revision Date: _____

Area of Concern	Currently/Formerly exists at facility Yes/No	Location Reference Keyed to Site Map	Sampling Proposed Yes/No	Narrative provided to support proposal Yes/No
D. Other areas of concern, including, without limitation:				
Electrical Transformers and Capacitors	Yes	K	No	Yes
Areas of stressed vegetation	No	N/A	N/A	N/A
Underground piping, including industrial process sewers	Yes	L	No	Yes
Compressor vent discharges	No	N/A	N/A	N/A
Non-contact cooling water discharges	Yes	M	No	Yes
Discolored areas or spill areas	Yes	N	No	Yes
Active or inactive production wells	Yes	O	No	Yes
E. Building interior areas with a potential for discharge to the environment, including, without limitation:				
Loading or transfer areas	Yes	P	No	Yes
Waste Treatment areas	No	N/A	N/A	N/A
Boiler rooms	Yes	Q	No	Yes
Air vents and ducts	Yes	R	No	Yes
Hazardous material storage or handling areas	Yes	S	No	Yes

F. Any other site specific area of concern. None

Refer to Attachment 3 for a narrative of sampling proposals for the above referenced potential areas of concern.

Revision Nº: ___
Revision Date: _____

6. Has the required evaluation of protectiveness of past remediations been completed for each area of concern for which a waiver is requested? _____ Yes _____ No N/A

Are the appropriate certifications included? _____ Yes _____ No N/A

If No, then a waiver can not be considered by the Department and the applicant is expected to complete a site investigation for each area of concern to verify the presence or absence of contaminants above the current NJDEP cleanup criteria.

7. Historical Data on environmental quality at the Industrial Establishment.

A. Have any previous sampling results documenting environmental quality of the Industrial Establishment not received a no further action approval from the Department or been denied approval by the Department?

_____ Yes _____ No N/A

B. Have there been any known changes in site conditions or new information developed since completion of previous sampling or remediation? If sampling results were obtained, but are not part of this application, please explain below:

N/A

8. Provide a discussion of any remediation activities previously conducted or underway at the industrial establishment, including dates of discharges, remedial action taken, sample results, current status or copies of Department or other government agency no further action approval(s), if appropriate (Attach additional sheets if necessary).

- June 1989, #2 heating oil UST overflow onto parking lot. Registered Case No. 89-06-20-2006. Corrective action was performed and a Corrective Action Report submitted to the NJDEP Division of Responsible Party site Remediation on February 14, 1992. The corrective Action Report is included as Attachment 4. This tank was removed on April 28, 1995, closure is pending.
- UST Investigation and planned closure. The #2 fuel oil tank is to be removed during 1995 following NJDEP guidelines and procedures. Closure documentation will be submitted to the NJDEP in accordance with NJDEP protocol.

9. Discharge History of Hazardous Substances and Wastes:

A. Have there been any discharges of hazardous substances and wastes?

X Yes (Complete Items B-E) _____ No known discharges

B. Was the Department notified of the discharge?

X Yes _____ No (Go to item 9D)

If yes, provide the case Nº 89-06-20-2006 (See response to Question 8)

C. Was a no-further-action letter, negative-declaration approval or full-compliance letter issued as a result of the cleanup of this discharge?

_____ Yes (Submit a copy and go to item 9E) _____ No N/A

D. Were sample results obtained?

_X_ Yes _____ No

If yes, submit the results. (See Attachment 4)

E. Provide a description of the discharge and the response and resolution.

- June 1989, #2 heating oil UST overflow onto parking lot. Registered Case No. 89-06-20-2006. Corrective action was performed and a Corrective Action Report submitted to the NJDEP Division of Responsible Party site Remediation on February 14, 1992. The corrective Action Report is included as Attachment 4. This tank was removed on April 28, 1995, closure is pending.

10. Aerial Photographic interpretation for sites larger than two acres from 1932 to present or to the earliest photograph available (Attach additional sheets if necessary).

Aerial photographs of the Site are included at Attachment 6, and include the following dates: 1947, 1963, 1982, and 1993. The 1947 photo shows the area before the property was developed for industrial/commercial use. The 1963 and 1982 photographs are of the facility in previous configurations. The 1993 photograph shows the current appearance of the facility.

11. List all federal, state and local environmental permits at this facility, including permits for all previous and current owners or operators, applied for, received, or both (Attach additional sheets if necessary).

Check here if no permits are involved _____

A. New Jersey Air Pollution Control (Permits are included in Attachment 5)

Permit Nº	Certificate Nº	Date of Approval or Denial	Reason for Denial	Expiration Date (if applicable)
N/A	109101	9/25/92	N/A	12/13/99
N/A	109102	9/25/92	N/A	12/13/99
N/A	109103	9/25/92	N/A	12/13/99
N/A	107255	6/16/92	N/A	12/2/99
N/A	095372	3/13/90	N/A	3/13/95*
N/A	087922	12/8/88	N/A	12/2/99
N/A	087923	12/8/88	N/A	12/2/99
N/A	083597	4/15/88	N/A	1/5/00
N/A	083598	4/15/88	N/A	1/5/00

* A new permit has been applied for; details and a copy of the permit will be forwarded to the NJDEP on receipt.

B. Underground Storage Tank Registration Number 0228675

Revision Nº: __
Revision Date: _____

C. New Jersey Pollutant Discharge Elimination System (NJPDES) Permit

Number	Discharge Body of Water Activity Discharged Into	Date Issued or Denied	Expiration Date	
N/A				

D. Resource Conservation and Recovery Act (RCRA) permit # N/A

E. All other federal, state, local government permits.

Agency Issuing Permit	Permit Nº	Type of Permit	Date of Approval or Denial	Expiration Date
Bergen County U.A.	94-0068	Industrial Wastewater Discharge	8/22/94	8/21/95

12. Summary of enforcement actions (including but not limited to, Notice of Violations, Court Orders, official notices or directives) for violations of environmental laws or regulations (Attach additional sheets if necessary):

A. Check here if no enforcement actions are involved _____

B. (1) Name and address of agency that initiated the enforcement action

NJDEPE Air and Environmental Quality Enforcement

R.J. Hughes Justice Complex

CN 093

Trenton, New Jersey 08625

(2) Date of the enforcement action 3/9/93

(3) Section of statute, rule or permit allegedly violated N.J.A.C. 7:27-5.2(a)

(4) Type of enforcement action
Issued an Administrative Order and Notice of Civil Penalty Assessment, Log No. A930263BEA

Revision Nº: ___
Revision Date: _____

(5) Description of the violation

A complaint about odors resulted in an enforcement action by NJDEP in 1993.

(6) How was the violation resolved?

The assessed penalty paid by Florasynth for full settlement of the matter in amount of $7,200, paid on 10/28/93.

13. Site Map

A. In accordance with N.J.A.C. 7:26E-3.2(a) 3.i, submit a scaled site plan, detailing the subject lot and block, property and or leasehold boundaries, location of current and former buildings, fill areas, paved and unpaved areas, vegetated areas, and all areas of concern identified above and all active or inactive wells.

A scaled Site Plan is included as Attachment 7.

B. Scaled historical site maps and facility as built drawings (if available).

All as built information available is included in the Site Plan, Attachment 7.

C. A copy of the United States Geologic Survey (USGS) 7.5 minute topographical quadrangle that includes the site and an area of at least one mile radius around the site. The facility location shall be clearly noted. If a portion of the USGS quadrangle is used, the scale, north arrow, contour interval, longitude and latitude with the name and date of the USGS quadrangle shall be noted on the map.

The USGS Site Location Map is included as Attachment 8.

14. List any other information you are submitting or which has been formerly requested by the Department:

Description	Attachment Nº
Hazardous Substance/Waste Inventory	1
Industrial Wastewater Discharge Permit/Discharge Sample Results	2
Area of Concern Proposed Sampling Narrative	3
#2 Fuel Oil UST Environmental Reports	4
Air Pollution Control Permits	5
Aerial Photographs	6
Site Plan	7
USGS Site Location Map	8
Proposed Sampling Schedule	9

Revision Nº: ___
Revision Date: _____

CERTIFICATION:

A. The following certification shall be signed by the highest ranking individual at the site with overall responsibility for that site or activity. Where there is no individual at the site with overall responsibility for that site or activity, this certification shall be signed by the individual having responsibility for the overall operation of the site or activity.

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information, and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Typed/Printed Name _____ Title _____

Signature _____ Date _____

Sworn to and Subscribed Before Me

On this _____

Date of _____ 19 ____

_____
Notary

B. The following certification shall be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the preparator, respectively; or
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official; or
4. For persons other than 1-3 above, by the person with the legal responsibility for the site.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information, and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute I am personally liable for the penalties.

Typed/Printed Name _____ Title _____

Signature _____ Date _____

Sworn to and Subscribed Before Me

On this _____

Date of _____ 19 ____

_____
Notary

Revision Nº: ___
Revision Date: _____

ATTACHMENT 1

HAZARDOUS SUBSTANCE/WASTE INVENTORY

(Included in this package an attached Volume)

ATTACHMENT 2

INDUSTRIAL WASTEWATER DISCHARGE PERMIT/ DISCHARGE SAMPLE RESULTS

ATTACHMENT 2

Attached is a copy of the current industrial wastewater discharge permit issued by the Bergen County Utilities Authority Department. This permit is issued annually and has a duration of 1-year. Compliance sampling for the Utility Authority is performed by Florasynth, Inc. in February of each year, but the Utility Authority maintains the right to take additional samples under their own direction.

In addition to this permit required sampling, Florasynth, Inc. periodically collects and analyzes discharge samples for their own records. Laboratory reports for the last four sampling events performed by Florasynth, Inc. are included in this attachment.

Attachment 2

Discharge Permit, Bergen County Utility Authority Department

Revision Nº: ___
Revision Date: _____

BERGEN COUNTY UTILITIES AUTHORITY
DEPARTMENT OF INDUSTRIAL WASTE CONTROL
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No.: 94-0068

Effective Date: 8/22/94

Expiration Date: 8/21/95

Company I.D. No.: 0068

Name and Address of Owner(Permittee): Florasynth, Inc.
300 North Street
Teterboro, New Jersey 07608

Location of Activity/Facility: 300 North Street
Teterboro, New Jersey 07608

Type of Business: Fragrance and Flavor Blending

Type of Permit: Noncategorical
Flow Category: 2,000 - 4,999 gpd

Annual Fee: $1,350.00

In accordance with all terms and conditions in the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works", the provisions by which are incorporated in this permit, and applicable provisions of Federal and/or State regulation, permission is hereby granted to discharge industrial process wastewater into the Bergen County Utilities Authority Little Ferry Treatment Plant, via the Borough of Teterboro sanitary sewer collection system, in accordance with wastewater discharge limitations, monitoring requirements, and other requirements set forth in the following tables hereof.

This permit is granted in accordance with the Industrial Wastewater Discharge Permit Application and Questionnaire and accompanying documentation, filed with the Authority, and are considered part of this permit. Industrial Wastewater Discharge Permits are issued for a specific operation. The permittee shall promptly notify the Authority in advance of any changes in operation, process, flow, or discharge. A permit shall not be reassigned or transferred, sold to a new owner, new user, different premises or a new or changed operation without prior written approval of the Authority. If, upon application, the Authority decides that the existing permit can be transferred with no modifications, the succeeding owner or user shall comply with the terms and conditions of the existing permit for the balance of the permit's duration.

Be advised that while the permit is in force, additional information may be required to be submitted and/or discharge limitations may be changed to reflect changes in applicable Federal, State and local regulations. The Permittee hereby agrees to the aforementioned.

Eric Andersen

ERIC ANDERSEN, Principal Engineer
Industrial Pretreatment Coordinator

Revised 8/93

Section 1 - General Conditions

1) The permittee shall not discharge, or allow to be discharged, directly or indirectly into the Authority Treatment Works or local sewer system connected thereto any pollutants or wastewater which:

   (A) causes or would cause the influent at the Authority's treatment plant to exceed the following headworks limitations at the Authority's treatment plant:

Pollutant	Headworks Limitation (mg/l)
Arsenic	0.002
Cadmium	0.006
Chromium	0.132
Copper	0.151
Lead	0.189
Mercury	0.002
Nickel	0.138
Silver	0.100
Zinc	0.328
Phenols	0.771

   (B) contain prohibited material or substances as specified under the Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works, except upon approval of the Authority, or except as otherwise expressly permitted by Federal or State laws and regulations; or

   (C) are not in conformance with the Industrial Wastewater Discharge Permit, administrative order, administrative consent agreement, including interim enforcement limits or other approval issued by the Authority; or

   (D) exceed the limitations set forth by EPA pursuant to Section 307 of the Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 466 et seq. or the New Jersey Department of Environmental Protection and Energy pursuant to Section 4 of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq.

   In no case shall the permittee's discharge have a flow rate or contain concentration of pollutants that exceed, for any fifteen (15) minute period, more than five (5) times the approved daily maximum concentration, flow or mass discharge during normal operation as stated in the Industrial Wastewater Discharge Permit.

(Cont.)

2) The permittee shall not discharge directly or indirectly into the local sewer system or Authority Treatment Works, any wastes or wastewater which cause, threaten to cause, or are capable of causing either alone or by interaction with other substances:

   (A) a fire or explosion hazard, including but not limited to, wastestreams with a closed cup flash point of less than 140 F or 60 C using the test methods specified in 40 CFR 261.21;

   (B) obstruction of flow or injury to the local sewer system or the Authority Treatment Works;

   (C) toxic gases, vapors or fumes that may cause acute health or safety problems of personnel operating or maintaining the system or to the public;

   (D) prevention of the effective operation or maintenance of the local sewer system or the Authority Treatment Works;

   (E) a strong offensive odor or air pollution by the release of toxic or malodorous gases or malodorous gas-producing substances;

   (F) interference with the Authority's treatment plant;

   (G) the Authority's effluent or any other product of the treatment process, residues, sludges, or scums, to be unsuitable for reclamation and reuse or disposal or to interfere with the reclamation and/or disposal process;

   (H) a detrimental environmental impact or a nuisance in the waters of the State or a condition unacceptable to any public agency having regulatory jurisdiction over same or the right to withhold funds as a result thereof;

   (I) discoloration or any other condition in the quality of the Authority Treatment Works effluent such that receiving water quality requirements established by law cannot be met;

   (J) conditions at or near the Authority Treatment Works which violate any statute or any rule, regulation, or ordinance of any public agency, federal, state, county or local regulatory body; or

   (K) the Authority Treatment Works to be overloaded or cause excessive Authority collection or treatment costs.

3) The permittee shall not discharge storm water, groundwater, rain water, street drainage, subsurface drainage, floor or yard drainage, or unpolluted water to any new direct or indirect connections to any separate sanitary sewer in the local sewer system or to the Authority Treatment Works.

4) The permittee shall not discharge storm water, groundwater, rain water, street drainage, subsurface drainage, floor or yard drainage, or unpolluted water through any new direct or indirect connection to any combined sewer system in a local sewer system unless approval is granted by the Authority prior to such discharge. Approval shall be granted when no reasonable alternate method of disposal is available.

5) The permittee shall not discharge or cause to be discharged, any radioactive material directly or indirectly into the local sewer system or the Authority Treatment Works except:

   (A) when the permittee is authorized to use radioactive materials by the New Jersey Department of Environmental Protection and Energy, the United States Nuclear Regulatory Commission or other governmental agency empowered to regulate the use of radioactive materials and,

   (B) when the waste is discharged in strict conformity with current New Jersey Department of Environmental Protection and Energy and United States Nuclear Regulatory Commission regulations and recommendations for safe disposal, and when the permittee is in compliance with all rules and regulations of all other applicable regulatory agencies.

6) The permittee shall not discharge waste from garbage grinders directly or indirectly to the local sewer system or the Authority Treatment Works through any new connection except:

   (A) wastes generated in preparation of food normally consumed on the premises; or

   (B) where the permittee has obtained approval for that specific use from the Authority and agrees to undertake whatever self-monitoring is required to enable the Authority to equitably determine the charges and fees based on the waste constituents and characteristics. An approved access point for monitoring and sampling sewage must be made available by the permittee.

   Such grinders must shred the waste to a degree that the discharge is shredded so that all particles will be carried freely under normal flow conditions prevailing in the local sewer system or the Authority Treatment Works. Plastic, glass, rags, paper or wood products, inert materials, garden refuse or any other commercial or industrial solid wastes shall not be discharged through a garbage grinder directly or indirectly to the local sewer system or the Authority Treatment Works.

7) The permittee shall not make any new connections to the local sewer system or discharge any wastes directly or indirectly to the local sewer system through any new connection unless such connection has been approved by the Executive Director except indirect 4" residential lateral connections. The permittee shall not discharge any substances directly into a manhole or other opening leading to the local sewer system or the Authority Treatment Works that was not designed or intended to receive such wastes, unless the Authority approves such discharge and the discharge location.

8) The permittee shall not discharge any holding tank wastes directly or indirectly to the local sewer system or the Authority Treatment Works through any connection unless he has received approval from the Authority.

(Cont.)

9) The permittee shall not discharge directly or indirectly to the local sewer system or the Authority Treatment Works any wastes or wastewater having heat in amounts which will inhibit the biological activity at the Authority's Treatment Plant, but in no case shall the wastewater temperature at the Treatment Plant exceed 40 degrees C (104 degrees F).

10) Any effluent limitations and other requirements promulgated by the United States Environmental Protection Agency, the New Jersey Department of Environmental Protection and Energy, or any other governmental entity having jurisdiction shall apply in any instance where they are more stringent than those set forth in this permit. The Authority may also supplement this permit with more stringent requirements if it determines that this permit:

    (A) may not be sufficient to enable the Authority to comply with the standards and limitations specified in the Authority's National or New Jersey Pollutant Discharge Elimination System Permit

    (B) may not adequately limit the wastes received into the Authority Treatment Works so as to prevent interference pass through, or impeding of operations or so as to allow the disposal or sales of solids or sludges or the recovery of by-products or energy therefrom.

11) When the Authority shall prohibit, establish pretreatment standards, or otherwise limit the discharge of any substance or pollutant, the permittee will be required to modify the discharge of the substances to the sewers to the levels so prescribed.

    The permittee shall not increase the use of process or cooling water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the National Categorical Pretreatment Standards, or in any other pollutant-specific limitation developed by the Authority or NJDEPE.

12) Connections to the local sewer system shall be designed and constructed to conform to the requirements and procedures set forth in the Authority's "Standards for Connection to Authority Sewers and Related Requirements" (Appendix A) of the Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works and all applicable State and local building and plumbing codes. All such connections shall be subject to the inspection and approval of the Authority.

13) Record-keeping requirements.
    (A) Permittee shall maintain records of all information resulting from any monitoring activities required by this permit. Such records shall include for all samples:
        (i) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;
        (ii) The dates analyses were performed;

(iii) Who performed the analyses;
(iv) The analytical techniques/methods use; and
(v) The results of such analyses.

(B) Permittee shall be required to retain for a minimum of 3 years any records of monitoring activities and results (whether or not such monitoring activities are required by this permit and shall make such record available for inspection and copying by the Authority and NJDEPE. This period of retention shall be extended during the course of any unresolved litigation regarding the permittee or when requested by the Authority of NJDEPE.

14) Permittee shall notify the Authority immediately of all discharges that could cause problems to the Authority's treatment works including any slug loadings. A slug loading is any discharge of a non-routine episodic nature including, but not limited to an accidental spill or a non-customary batch discharge.

A notice shall be permanently posted on the bulletin board or other prominent place advising all employees of the responsible person to call in the event of an accidental or non-compliance discharge. This person shall be responsible for initiating emergency notification procedures in accordance with this paragraph and paragraph 19. Permittees shall insure that all employees, who could cause such an accidental or non-compliance discharge to occur, are advised of the emergency notification procedure.

15) The permittee shall notify the Authority, the USEPA Regional Waste Management Division Director, and NJDEPE in writing of any discharge into the Authority's Treatment Works, Intercepting Sewer or Local Sewer of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the USEPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the permittee discharges more than 100 kilograms of such waste per calendar month to the Authority's Treatment Works, Intercepting Sewer or Local Sewers, the notification shall also contain the following information to the extent such information is known and readily available to the permittee: An identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve months. All notifications for existing sources must take place within 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted in accordance with Paragraph 19)E. The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of Section 3.

16) Dischargers are exempt from the requirements of paragraph 15 during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e) requires a one-time notification.

Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.

17) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the Authority, the EPA Regional Waste Management Waste Division Director, and NJDEPE of the discharge of such substance within ninety (90) days of the effective date of such regulations.

18) In the case of any notification made under paragraph 15, the Industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

19) Permittee shall provide additional self monitoring reports as follows:

A. Report any exceedance of an effluent limitation that causes injury to persons, or damage to the environment, or poses a threat to human health or the environment, within two (2) hours of its occurrence, or of the permittee becoming aware of its occurrence.

B. Within twenty-four (24) hours of an event described in A. above, or of an exceedance, or of becoming aware of an exceedance, of an effluent limitation for a toxic pollutant, a permittee shall provide such additional information on the discharge as may be required by the Authority, including an estimate of the danger posed by the discharge to the environment, whether the discharge is continuing and the measures taken, or being taken, to remediate the problem and any damage to the environment, and to avoid a repetition of the problem.

C. A permittee shall be required to file monthly reports if the permittee:

(1) in any month commits a serious Violation or fails to submit a completed discharge monitoring report and such failure to report continues unabated following thirty (30) days notice from the Authority; or

(2) exceeds an effluent limitation for the same pollutant at the same discharge point source by any amount for four (4) out of six (6) consecutive months (in the case of a permittee who files monthly reports); or for one report (in the case of a permittee who files reports at quarterly, bi-yearly or yearly intervals).

(Cont.)

The monthly reporting requirement shall apply to those constituents which triggered the violations noted in Paragraph 19 (1) and (2) above. The reporting requirements stipulated in the permit shall be restored if the permittee has not committed any of the violations identified in Paragraph 19 (C) (1) and (2) above for six (6) consecutive months. The term "Serious Violation" shall be as defined in Article II of the Authority's Rules and Regulations.

D. A permittee shall report to the Authority any Serious Violation within thirty (30) days of the violation, together with a statement explaining the nature of the serious violation and the measures taken to remedy the cause or prevent a recurrence of the serious violation.

E. A permittee shall notify the Authority in advance of the quality and quantity of all new introduction of pollutants into the Authority's Treatment Works or a local sewer system and of any substantial change in the pollutants introduced into a facility by an existing user of the facility. The notification shall estimate the effects of the changes on the effluents to be discharged into the facility.

20) The Authority shall have the right of entry to all premises in which a discharge source is or might be located or in which monitoring equipment or records required by a permit are kept, for purposes of inspection, sampling, copying or photographing.

21) The Authority shall have the right to perform an inspection and sample the effluent of a permittee at such times and at such frequencies as the Authority deems necessary to confirm compliance with pretreatment requirements.

Local Pretreatment Limits

Non-hazardous limits:

Biochemical Oxygen Demand, BOD	BCUA must be notified if over 350 mg/l
Suspended Solids, S.S.	BCUA must be notified if over 350 mg/l
pH	5.5 - 9.5 Daily Range
Total Kjeldahl Nitrogen	200 mg/l Daily Maximum
Ammonia Nitrogen	100 mg/l Daily Maximum
Oil or Grease Non-petroleum origin	200 mg/l Daily Maximum

Hazardous limits:

Copper (T)	1.0 mg/l Daily Maximum
Cyanide (T)	0.50 mg/l Daily Maximum
Oil or Grease Petroleum origin	100 mg/l Monthly Average 150 mg/l Daily Maximum
Explosivity	5% LEL any 2 successive readings 10% LEL any 1 reading

Note:
(T) = Total

Section 3 - Monitoring Schedule

The company being Florasynth, shall monitor its effluent wastestream per the following schedule. All sampling and analysis shall be performed in accordance with 40 CFR Part 136 or the approved equivalent method.

Samples taken in compliance with the specified monitoring requirements shall be taken at the following location: **Manhole, southeast corner of building.**

During the Month of: **February** Sample only for this

Parameter	Sample Type	Sample Frequency	Monitoring Frequency
Oil & Grease, Total	Grab	1 per Day	One day per month
Oil & Grease, Petroleum Hydrocarbons	Grab	1 per Day	One day per month

Section 4 - Monitoring Requirements

Not later than fourteen (14) days following each month in the Monitoring Schedule the industrial user shall submit to Bergen County Utilities Authority a compliance report consisting at minimum of the following items:

1) Any change in company name, ownership, contact person or authorized representative changed;

2) Average and maximum daily regulated wastewater flow, with an explanation of how obtained (flow meter, volume displacement, water bills, etc.);

3) An accounting of each regulated pollutant either by analysis or by statement of non-use. In addition, if any pollutant is monitored more frequently than required by Table - 3, Monitoring Schedule, the results of this monitoring shall also be included;

4) Chain of custody identifying the duration of composite samples (start and finish) and sampling time for grab samples;.

5) The name, address and identification number of the NJDEPE certified laboratory that performed the analysis;

6) A statement of compliance or a compliance schedule in the event of non-compliance; and,

7) A certification from an authorized representative of the permittee which states:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

BY:_____ _____

Signature Name and Title (typed)

Section 5 - Statement of Penalties

The Authority may take any and all actions and pursue any and all remedies permitted by federal law and the laws of the State of New Jersey to enforce the provisions of the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works".

These actions and remedies shall include, but not necessarily be limited to those set forth in Article VI of the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works". Wherever in Article VI reference is made by title to any official or employee of the Authority, it shall be understood that such official or employee shall act as the duly appointed representative of the Executive Director. The Executive Director shall at all times have the right to undertake any action delegated to such official or employee or authorize other authority officials or employees to undertake such delegated duties as well.

Enforcement Actions available to the Authority include, but are not necessarily limited to, the following:

(A) Issue an order to comply in accordance with the provisions of Section 10 of P.L. 1977, c.74 (N.J.S. 58:10A-10);

(B) Bring a civil action in accordance with the provisions of Section 10 of P.L. 1977, c.74 (N.J.S. 58:10A-10);

(C) Issue a summons in accordance with the provisions of Section 1 of P.L. 1991, c.8 (N.J.S. 58:10A-10.4);

(D) Issue a civil administrative penalty in accordance with the provisions of Section 2 of P.L. 1991, c.8 (N.J.S. 58:10A-10.5);

(E) Bring an action for a civil penalty in accordance with the provisions of Section 10 of P.L. 1977, c.74 (N.J.S. 58:10A-10);

(F) Petition for the commencement of a criminal action in accordance with the provisions of Section 10 of P.L. 1977, c.74(N.J.S. 58:10A-10);

(G) Seek injunctive relief against a violation or threatened violation in accordance with the provisions of Section 7 of P.L. 1972, c.42, as amended by Section 18 of P.L. 1990,c.28(N.J.S.58:11-55); and

(H) Seal or close off sewerage connections in accordance with the provisions of Section 8 of P.L. 1972,c.42(N.J.S.58:11-56).

In the event of a violation of any rule, regulation or pretreatment standard adopted by the Authority, the Authority shall take one of the enforcement actions set forth above or obtain injunctive relief against the violation. If applicable, the Authority shall assess civil administrative penalties in amounts no less than the minimums set forth in P.L. 1990. c.28, section 6 (N.J.S. 58:10-10.1). Nothing contained in this section shall be construed to prohibit or otherwise limit the Authority from pursuing any other remedy permitted by federal law and the laws of the State of New Jersey.

Attachment 2

Discharge to POTW Sampling Results; 3/9/95, 12/29/94, 11/7/94, 1/3/94

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

FLORASYNTH, INC.
300 NORTH ST
TETERBORO, NJ 07608-
Attn: AL HOBSEN

DATE: 03/09/95

(Page 1 of 1)

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
39406	03/06/95	0855	CHEMTECH	03/07/95	0910	WW
39407	03/07/95	0850	CHEMTECH	03/07/95	0910	WW

CLIENT STATION ID:		EFFLUENT	EFFLUENT
LAB #:		39406	39407
OIL & GREASE	mg/L	12	10
TPH	mg/L	1.8	1.2

LABORATORY DIRECTOR

110 Route 4 ● Englewood, New Jersey 07631 Phone: (201) 567-8860 Fax: (201) 567-1333

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

FLORASYNTH, INC.
300 NORTH ST
TETERBORO, NJ 07608-
Attn: AL HOBSEN

DATE: 12/29/94

(Page 1 of 1)

SAMPLE LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
35624	12/07/94	1300	CHEMTECH	12/07/94	1400	WW

CLIENT STATION ID:		EFFLUENT
LAB #:		35624
OIL & GREASE	mg/L	2.10
TPH	mg/L	1.6

LABORATORY DIRECTOR

Permit Limits
Oil + Grease 200mg/L
TPH 100mg/L

110 Route 4 ● Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

NYSDOH Certification No. 10694 NJDEPE Certification No. 02548

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

FLORASYNTH, INC.
300 NORTH ST
TETERBORO, NJ 07608-
Attn: AL HOBSEN

DATE: 11/07/94

(Page 1 of 1)

SAMPLE				DELIVERY TO LAB		
LAB No.	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
33452	10/24/94	0930	CHEMTECH	10/24/94	0950	WW

CLIENT STATION ID:		EFFLUENT
LAB #:		33452
OIL & GREASE	mg/L	1.22
TPH	mg/L	0.83

LABORATORY DIRECTOR _____

110 Route 4 ● Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

NYSDOH Certification No. 10624 NJDEPE Certification No. 02548

CHEMTECH CONSULTING GROUP, INC

LABORATORY REPORT

REPORT OF ANALYSES

FLORASYNTH, INC.
300 NORTH ST
TETERBORO, NJ 07608-
Attn: AL HOBSEN

PROJECT NAME: 3173
DATE: 01/03/94

(Page 1 of 1)

LAB No.	SAMPLE DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	DELIVERY TO LAB TIME	MATRIX
23611	12/27/93	1400	CHEMTECH	12/28/93	0900	WW

CLIENT STATION ID:		EFFLUENT
LAB #:		23611
OIL & GREASE	mg/L	0.83
TPH	mg/L	0.61

LABORATORY DIRECTOR

110 Route 4 • Englewood, New Jersey 07631 Phone (201) 567-5858 Fax (201) 567-1333

NYSDOH Certification No. 10624 NJDEPE Certification No. 02548

ATTACHMENT 3

AREA OF CONCERN PROPOSED SAMPLING NARRATIVE

Attachment 3

Florasynth, Inc. has been in operation at this facility since 1975. In the course of completing this PAR an inquiry for information has been made of of the Plant Engineer, the Health and Safety Director, the Chief Financial Officer, and other personnel as applicable who have relevant knowledge of the facility dating back to the inception of ownership, and all available documentation has been reviewed. Due diligence has been performed in obtaining the information in the following section based on all historical information available. Unless otherwise noted, these conditions observed are believed to have existed from at least 1975.

Attachment 3

Area of Concern Proposed Sampling Narrative

Area A:

There are five above ground storage tanks (ASTs) at the facility. Two of the tanks are located in the flavor section of the facility, one containing propylene glycol and the other corn syrup (glucose). Two tanks are located in the fragrance section of the facility, one containing dipropylene glycol, (DPG), the other diethyl phthalate, (DEP); both tanks are 3,500-gallon capacity. One above ground tank is located outside the building, within the storage compound. This tank is of 5000-gallon capacity and contains Propylene glycol. In addition to the above ground storage tanks there are numerous above ground tanks used for blending and as process vessels. All 4 ASTs located in the building's interior are equipped with spill containment drains and/or berms. In the event of an accidental discharge, spilled material would be collected in the floor drain collection system or contained by the berms. The description of environmental impact caused by floor drain discharge discussed in Area G is inclusive of impact resulting from inadvertent discharges from the ASTs. All tanks were installed during Florasynth Inc.'s occupation of the facility, and have always be used for the same product. Prior to Florasynth, Inc.'s occupation of the facility, three above ground alcohol tanks were located in the rear parking lot area, west of the building. These tanks were removed by Florasynth, Inc. There is no visible evidence of discharge from any above ground tanks onto the surrounding concrete floor, walls, or drains and therefore no sampling is proposed around the ASTs as part of the PAR.

Area B:

There are three underground storage tanks (USTs) on-site; two alcohols USTs, and one closed #4 fuel oil UST. In addition there are four emergency discharge spill containment tanks.

- Both alcohol tanks are constructed of stainless steel, the tank to the west of the building has recently been pressure tested and was found to be tight, the tank to the east of the building is double walled and equipped for interstitial monitoring. Dispensing of product from the two alcohol USTs is monitored and recorded. All product is tracked from the time it enters site storage to its use in production. Both tanks were installed by Florasynth, Inc. and have only be used for storage of alcohol. Sampling proximal to these two regulated tanks is not proposed as part of the PAR.

- The #4 fuel oil UST is situated beneath the butter rendering room in the structure's interior. It was originally installed in 1950 by the former owner of the facility, and at that time was situated outside the building footprint. Subsequent extensions to the rear portion of the building covered the tank. When Florasynth, Inc. acquired the building in 1975, they installed the #2 fuel oil tank, discussed below, and discontinued use of the #4 fuel oil tank. The #4 fuel oil tank was closed in place in 1975 by filling it with clean sand and sealing/removing fill ports and discharge taps. As no documentation is available regarding the status of the tank prior to its closure in place, it is proposed to take borings around the tank location to collect screening level data. These data will be reviewed to assess any potential for impact to the surrounding soils or groundwater. Sampling will be conducted in accordance with the enclosed schedule (Attachment 9) and the general requirements described in N.J.A.C. 7:26E-3.4.

- The #2 fuel oil UST was installed by Florasynth, Inc. and was in place from 1975 to 1995. It had been inactive since the plant converted to natural gas in 1993. Results of perimeter soil sampling have been submitted to the NJDEP, and are enclosed as part of Attachment 4. The tank was removed on April 28, 1995 by Hill Cross Engineering Co., in accordance with NJDEP UST closure guidelines and regulations. The Closure Report will be submitted to the NJDEP once analytical results have been obtained.

- The four emergency discharge spill containment tanks are part of four explosion containment systems operating on-site. The systems are designed to contain any catastrophic discharge of material. Three of the systems address areas where process tanks handling alcohol-based mixtures are located, the fourth system addresses an explosion-resistant loading bay area where volatile materials are staged. Each system includes a floor drain collection network to remove any discharged material from the interior of the structure. Materials collected in the drains are contained externally in below ground tanks. There is no evidence of discharge to the floor drain collection system in any

of the four areas, and the tanks associated with these system have not been utilized since their installation. The tanks remain empty in the absence of a catastrophic release and, should a release occur, the tanks would be emptied as soon as feasible after the event. Sampling of these four emergency discharge spill containment tanks is not proposed as part of this PAR.

Area C:
Two pump stations are located in the building's interior and used to regulate the dispensing of alcohol from the two underground alcohol storage tanks. The pump stations are located in explosion resistant rooms equipped with spill containment drains and tanks which would operate in the event of a material spill or sudden discharge. Refer to Area B discussion for the operation of the emergency spill containment system. The pump stations have spill containment barriers to capture small quantities of material accidentally discharged during pump operations. Due to the in-place containment systems which eliminate any potential for environmental impact, and the lack of visual evidence of discharge due to pump operations, no sampling is proposed for area C as part of this PAR.

Area D:
Storage areas, excluding closets and cabinets, are located throughout the interior of the facility. Any sudden or accidental discharges of material from the storage areas would be collected by the floor drain network. To limit accidental discharges, drums are equipped with spill collection buckets and stored off the floor on racks. Smaller containers are also stored on racks. Boxes and sacks of solid materials are stored on pallets. There is no visual evidence of spills within the storage areas. In the event of an accidental discharge, spilled material would be collected in the floor drain collection system. The description of environmental impact caused by floor drain discharge discussed in Area G is inclusive of impact resulting from inadvertent discharges from the interior storage areas.

There is one exterior drum storage pad on-site. The pad area is located on the paved surface of the parking lot (which has been paved since at least 1975) and access is limited by a locking fence and gate. Some staining of the pavement underlying the storage pad is visible, but no staining is visible beyond the fenced area. Potential impact to the environment from a sudden and accidental liquid releases from this storage area would be limited to surface run-off across the parking lot. The collection area for this surface runoff is the drainage swale, which is addressed as Area I. To assess any impact to the surrounding underlying soils, it is proposed to collect soil samples from the 0-6" soil interval beneath the asphalt along the perimeter, and from within the fenced staging area. Sampling will be conducted in accordance with the enclosed schedule and the general requirements described in N.J.A.C. 7:26E-3.4. Since Florasynth, Inc's occupation of the facility in 1975, both the northwest and the southeast sides of the building have been covered with asphalt and used for vehicle parking. The rear of the building was paved in 1987 to provide for additional parking.

Area E:
The dumpsters used by Florasynth are located on the paved parking area and are used to contain solid municipal waste. The locations of these dumpsters are not fixed on the property, and there is no evidence of discharge of hazardous materials in relation to their operation. Therefore, no sampling for potential environmental impact is proposed as part of this PAR.

Area F:
Chemical storage cabinets and closets at the facility include three storage areas; one refrigerated storage room, one heated storage room, and one limited access storage area for the storing of valuable material. There are also two explosion resistant storage rooms designed to withstand a material spill resulting in an explosion. Material discharged from the temperature controlled environments and the secured storage room could only impact the environment via the floor drainage network within the building. There is no visual evidence of spills within these storage areas. The floor drains network is addressed as Area G, and is inclusive of potential environmental impact resulting from sudden and accidental release of material from these storage areas. No sampling is proposed in these areas as part of the PAR.

The explosion resistant storage areas are designed to contain any discharge caused by a spill or explosion with the use of a separate drainage system feeding directly into emergency holding tanks. This system is described in the Area B discussion. No sampling is proposed in these areas as part of the PAR.

Area G:
Floor drains and trenches are located throughout the building and provide the only point of discharge to the environment

for releases occurring within the facility. The floor drains discharge into the sanitary sewer line located along the southeastern perimeter of the site, and connect into the main sewer running in a southeast direction along North Street. The sewer line is monitored at the downgradient lift station for guideline parameters acceptable to the POTW. Because any discharge from the floor drain network is transported to the POTW where it is monitored, no sampling is proposed as part of the PAR.

Area H:
All processes venting to the roof are permitted and monitored according to air discharge permits outlined in response to Question 11. Because process operations venting to the roof are regulated and periodically monitored, the roof leaders are not proposed to be sampled as part of this PAR.

Area I:
A drainage swale located on-site acts as a catchment for surface runoff leaving the paved parking area east of the facility. There are no processes discharging directly into the swale. The swale discharges into the sanitary sewer line located along the southeastern perimeter of the site. The sewer line itself is monitored at the downgradient lift station for guideline parameters acceptable to the POTW. Because any discharge from the drainage swale is transported directly to the POTW where it is monitored, no sampling around the drainage swale is proposed as part of the PAR.

Area J:
The storm sewer collection system is currently monitored by the POTW according to a site-specific permit. Because of this monitoring, and because the facility meets the discharge criteria established by the POTW, no sampling is proposed as part of this PAR. The POTW permit is included as Attachment 2.

Area K:
The transformers supplying power to the 1993 building addition (housing offices and research and development laboratories) are a drypack-type of electrical transformer and are housed internally. The transformers are located within the structure of the building and provide no pathway for potential migration of discharged materials to access the environment. The external transformers supplying the main facility are operated by PSE&G and are located on concrete pads in the rear of the structure. The current transformers were installed in 1992 to allow the upgrading of the electrical system to 480V service; the new transformers were placed on a newly constructed concrete pad which extended to the building wall. The former transformers were located against the building wall, within a fenced compound with a gravel floor. There is no record or documentation indicating any discharge from either the former or the current transformers. No sampling around the transformers is proposed as part of this PAR.

Area L:
Underground piping and industrial process sewers operate in conjunction with the regulated sewer discharge system and are incorporated in the discussion associated with Area J.

Area M:
Non-contact cooling water discharges are sent off-site to the POTW and regulated as to chemical parameters, volume, and temperature. The POTW permit is included as Attachment 2. No further sampling is proposed as part of this PAR.

Area N:
Evidence of spills is limited to minor staining in the area of the outside drum staging area, which has been addressed in the discussion of area D.

Area O:
Two wells are located at the facility, each 6-inches in diameter and approximately 120 feet deep. Both were installed in 1985 by Ernest Richardson, Inc. to be used as a potential source of non-contact cooling water. These wells have been inactive since their installation and are not proposed to be sampled as part of this PAR.

Area P:
Interior and exterior material loading and transfer areas are present at the facility. Potential impact to the environment from interior loading/transfer areas are limited to floor drain discharges. The floor drain network is addressed as Area G, and is inclusive of potential environmental impact resulting from sudden and accidental release of material from these

storage/transfer areas. There is no visual evidence of spills within the interior loading/transfer areas. An accidental discharge of material from the exterior loading/transfer areas would result in surface spills. Spilled fluid materials could potentially exit the site as surface runoff across the parking lot. The discussion of Area J, which addresses the impact of the storm water collection system on the environment, is inclusive of impact caused by a release of liquid material from the exterior loading and material transfer areas. There is no visual evidence of spills within the exterior loading/transfer areas. No sampling is proposed in the interior or exterior material loading and transfer areas as part of the PAR.

Area Q:
Boiler room operations are internal, with spills and discharges capable of discharging to the environment only via the floor drain collection system discussed as area G. Routine POTW sampling addresses the floor drain system, therefore no sampling is proposed in this area as part of the PAR. Insulation is present on heating water pipes within the boiler room. As no documentation is available regarding the presence or absence of asbestos, grab samples will be collected and analyzed for asbestos content. Sampling will be conducted in accordance with the enclosed schedule (Attachment 9) and the general requirements described in N.J.A.C. 7:26E-3.4.

Area R:
Air vents and ducts which could impact the environment by discharge of process material are regulated by current discharge permits, and monitored periodically as required by the individual permit. Refer to the response to Question 11 for information of air permits issued to the facility. No additional sampling is proposed in the area of the air vents and ducts as part of the PAR submittal.

Area S:
Hazardous materials storage and handling areas are included in the discussion of chemical storage cabinets and closets (area F), and general storage areas (area D). Refer to the discussions of these specific areas for sampling strategies to be incorporated as part of this PAR.

ATTACHMENT 4

#2 FUEL OIL UST ENVIRONMENTAL REPORTS

- **Corrective Action Report, 2/14/92**
- **Preliminary Soil Testing Report, 10,000 gallon UST, 9/94**
- **Proposal to Remove 10,000 gallon UST, 10/21/94**
- **UST Closure Plan Approval Application**

Attachment 4

Corrective Action Report, 2/14/92

Revision Nº: ___
Revision Date: _____

HCE HILL CROSS ENGINEERING COMPANY
543 - 56th Street, P.O. Box 60, West New York, NJ 07093

Telephone: (201) 864-3393 Fax (201) 864-5448

State of New Jersey
Department of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Underground Storage Tanks
CN 029
401 East State Street
Trenton , N.J. 08625-0029

Attn: Mr.Joseph Baker

February 14, 1992

VIA FEDERAL EXPRESS

Re: Discharge Investigation and Corrective Action Report at Florasynth Inc.
Case No.89-06-20-2006.

Dear Mr.Baker:

Enclosed please find the Discharge Investigation and Corrective Action Report for Florasynth Inc. 300 North Street Teterboro, N.J. 07608.In case of question, please do not hesitate to call me.

Very truly yours

Michael N.Banhidi Ph.D.
Vice President

Enclosure:
DICAR document

cc:
Mr.William Calbo. Florasynth
Mark Genser Esq. RCC.

DISCHARGE INVESTIGATION AND CORRECTIVE ACTION REPORT

AT

FLORASYNTH INC.

300 NORTH STREET

TETERBORO , NEW JERSEY 07608

CASE NO. 89 - 20 - 2006

Prepared by:

Hill Cross Engineering
543 56th. Street
West New York, N.J. 07093

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1.0 INTRODUCTION.

In June 1989 Florasynth Company reported an oil spill to the New Jersey Department of Environmental Protection . The reporting was conducted according to the prevailing regulations, the case was registered under Case No. 89 - 06 - 20 - 2006. Concurrently local authorities were notified and with their guidance the remediation work was performed by Clean Venture Inc.. The company Underground Storage Tank supplying No.2 heating oil to the boiler was overflowing and because of the high rainfall the excess oil flew into the nearby surface water.

2.0 DESCRIPTION OF SITE.

The North East boundary of Florasynth Company's property is adjacent to the Lockawana Railroad Lines. Eastbound from the railroad a 4-8 feet deep and 150 feet long basin situated (See Figure 2). At the North and South end of the basin drainage pipes, culverts conducting the surface water from the adjacent property towards the Hackensack river (See Figure 4). At this point of the discharge from the underground drain pipe the surface water is collected from a large area. Heavy rainfall cause constant flooding carrying garbage (beer cans,paper cups.plastic bags etc) and depositing in the basin. Florasynth regularly cleaning the basin and disposing the collected refuse at their expense. In order to control the continuous soil erosion Florasynth is installing a new underground drainage system, including headwalls and storm-drains. The area will be filled with certified backfill and covered with asphalt (See Figure 8.).

2.1 GEOLOGICAL DESCRIPTION.

The Hackensack River Valley, including the Meadowlands and Teterboro, lies in the Piedmont physiographic province of northeastern New Jersey. The bedrock is the Brunswick Formation of the late Triassic Newark Group, 225 to 200 million years in age (Van Houten, 1970). The formation consist of fluviatile and lacustrine reddish-brown shale and some fine grained sandstones. Associated basalts of the Newark Group include three younger lava flows forming the Watchung Mountains several miles west of the Meadowlands; the Palisades sill, in part a dike, bordering the Meadowlands on the east; and Laurel Hills (Snake Hill),a basalt plug adjacent to the New Jersey Turnpike in the southern part of the Hackensack Meadowlands. Boring done by the U.S.Army Corps of Engineers show that the glacially scoured bedrock valley under the Hackensack Meadowlands is from one to two miles wide and lies buried under till and clay and silt, in places over 170 feet thick (U.S. Army Corps of Engineers 1962). A Us.Geological Survey Map of surficial deposits indicates Quaternary deposits (Qm) covering the area, and summaries the geologic, hydrologic and engineering conditions as follows:

- Quartenary marshes, swamps, estuaries and artificial fill interbedded silt fine grained sand, medium to high plasticity clay and organic material in differing proportions.
- Upper part dominantly organic, soft noncompact, in part semi-fluid.
- Commonly overlain by artificial fill, underlain by clay and silt
- Present below level of high tide, bearing capacity very poor.
- Extremely low permeability.

Reference: U.S.G.S. 1967.

2.3 SOIL DESCRIPTION.

The detailed soil stratigraphy for the area is as follows:

DEPTH (FT)	MAJOR DIVISION	TYPICAL DESCRIPTION	LETTER SYMBOL
0 - 1.5	COARSE GRAINED SOILS	HUMUS,SWAMP SOIL WITH HIGH ORGANIC CONTENT	PT
1.5 - 20	FINE GRAINED SOILS LIQUID LIMIT < 50%	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY,ORGANIC SILTS	OH

The upper layer is typical swamp soil with extremely high organic content, decomposed plants and wood roots, high moisture content (< 50%). The underlaying 18 - 20 feet is gray "FAT CLAY" with almost zero permeability. The clay is so thick that the mechanical backhoe could not break more than 1 foot thick layer of soil in one scoop. It can be seen in several photographs the typical swampy condition of the basin (See Figures 3, 4, 5 and 7).

3.0 CLEANUP PROCEDURE.

The pathway of the heating oil from the tank fill opening to the basin was the following:

1. The surface water level reached the UST fill opening.
2. The excess oil overflowed to the surface water. The underlaying surface was paved, therefore the oil did not penetrate into the subsurface soil.
3. The receding water with the floating oil descend in the basin area.

The overflowing No.2 oil was floating on the surface of the high tide-water. Clean Venture Emergency Response Unit was at the site within 3 hours, equipped with absorbent pads and other appropriate containment devices. The size of the spill was estimated between 25 gallons minimum and 42 gallons maximum, according to the material balance sheet, based on consumption and purchase of heating oil. The surface water was cleaned from free floating product, the absorbent pads were collected in DOT approved steel drums. Free floating product was gathered using vacuum brooms, as excepted process in major oil spill cleanups. Additional pads were placed at the perimeter areas to complete the cleanup. These pads were replaced in the following weeks to guarantee the maximum cleanup efficiency. The collected absorbent pads, and waste oil was disposed by Clean Venture EPA ID.No.NJD982281016, the receiving facility is Cycle Chem Inc. 217 S.First Street Elizabeth ,N.J. EPA ID.No.NJD002200046. The total quantity was 990 lbs (See Appendix 3.Hazardous Waste Manifest).

4.0 SAMPLING PLAN SUMMARY.

The objectives of the subject soil investigation were to:

- Assess the quality of soil around and beneath the surface water in the basin .
- Determine whether TPHC contaminated the soil
- Confirm the Total Petroleum Hydrocarbons analytical results with an appropriate high confidence level method.
- Based on the data collected develop recommendations for remedial actions, if required.

The analytical methods used were the following:

EPA Method 418.1 (Modified) Total Petroleum Hydrocarbons by IR.
EPA Method 625 , 8250, 8270 Base Neutral by GC/MS.

The analytical work was performed at:

Technion Inc.
250 Delawanna Ave.
Clifton, N.J. 07014
NJDEPE ID.No. 07190

4.1 SAMPLING METHODOLOGY.

Twelve soil samples were taken; ten samples from the sides of the basin;two samples in the middle. The area representing(150'x 8') 1200 ft^2; each sample characterize 10 ft^2 or a 3'x3' area. These values are well within the Remedial Investigation Guidelines (RIG) of the New Jersey Department of Environmental Protection recommended sampling frequency requirements. Prior to sampling we excavated a 2'x2' test hole to obtain the soil stratigraphy and perform a quick percolation field test to determine the proper sampling depth. The preliminary test confirmed that the highest probability to find TPHC or petroleum byproducts will be less than ten inches depth, because beneath 10 inches the percolation practically stopped. Capitalize on this information we chose 60% of the maximum depth; six inches. To acquire soil samples we employed 2" diameter hand held Stainless Steel Auger, and Stainless Steel spatula to extract the collected soil. All equipment was cleaned prior to sampling and between sampling locations. The cleaning procedure was similar described below. The sampling vials were pre-cleaned in the laboratory,according to NJDEPE "Field Sampling Procedures Manual" applying the following cleaning procedure:

- Non-phosphate detergent wash
- Tap water rinse
- Acid rinse
- Tap water rinse
- Distilled water rinse
- Acetone rinse
- Air dry
- Distilled water rinse

In an attempt to identify variables affecting sample integrity outside the realm of the sampling device, we followed the NJDEPE guidelines for quality control blanks. We choose the ~~two~~ track approach, field and method blanks.The purpose of the method blank is to detect additional sources of contamination that might potentially influence contaminants values reported in actual samples both quantitavely and qualitatively. The distilled water used in the equipment cleaning process consisted of the same water used in the laboratory blank determination. The primary purpose of the Field Blank is to provide an additional check on possible source of contamination beyond that which is intended for trip blanks. A field blank is conducted using two sets of laboratory clean containers. One set was empty and served as a sample container. The second set of container was filled with distilled water. This water originated from the same source as the laboratory blank. At the field location is analyte free water passed through cleaned sampling equipment and placed in the empty sample container for analysis.
When a sample was collected, the soil was transferred into a glass vial and was closed with a

Teflon lined cap. The bottle was labeled, data entered in the Chain of Custody documentation, and placed in an iced cooled container. Each sample was handled in the same manner. The samples were identified with the letter of the alphabet, beginning from north to south. The Field Blank was marked as FB.The samples were transported to the laboratory and the Chain of Custody was signed by the receiving laboratory technician.

5.0 FINDINGS.

As it can be seen in the Analytical Data Summary (See Table 1.) that all results are below the NJDEPE Action Levels (AL); namely 100 mg/kg or 100 PPM. Samples C, D, E and F are in the 80 PPM range. Samples A and K are in the 60 range, F and J are in the 30 PPM range. Samples B, G, H, I and L are below the Minimum Detection Level (MDL) (0.1 PPM). To demonstrate the validity of the two highest TPHC results, we submitted these samples for a highly reliable analytical method (Base Neutrals + 15), to identify petroleum byproducts presence, if the high TPHC reading originated from the oil spill. Such compounds as Naphthalene, Benzo-furan, pyrene and their derivatives would confirm the presence of oil contamination in the soil. The confirming test did not show any of the above mentioned compounds and/or their derivatives. All compounds were below MDL (380 ug/kg or PPB). The higher TPHC results are believed to be the result of organic decay byproducts, or their presence caused an interference.

AFTER REVIEW THE RESULTS OF THE INVESTIGATION, WE CAN STATE THAT THE FACTS PROVIDED DURING THIS STUDY, THE SITE AT TETERBORO CAN BE CERTIFIED CLEAN FROM PETROLEUM AND ITS DERIVATIVES IN ACCORDANCE WITH THE REMEDIAL INVESTIGATION GUIDELINES (RIG) DIRECTIVES. THE DILIGENT SEARCH DID NOT REVEAL FURTHER DISCREPANCIES OR DEVIATIONS FROM THE REQUIREMENTS SET FORTH BY THE DEPARTMENT.

6.0 CERTIFICATION.

I certify under penalty of law, that the information provided in this document is true, accurate and complete, and was obtained by procedures in accordance with:

NJDEP Field Sampling Procedures Manual (Sampling procedures)
40 CFR Part 136 (Analytical Methodology)

I am aware that there are significant civil and criminal penalties submitting false, inaccurate or incomplete information, including fine and/or imprisonment.

Michael Banhidi

Michael N.Banhidi Ph.D.
Registered Environmental Professional
Registration No. 2598

2-14-92

TABLES

TABLE 1.

DATA SUMMARY

TOTAL PETROLEUM HYDROCARBONS (TPHC)

Sample ID.	Results	Blank	MDL
A	66.60	N.D	0.1
B	N.D	N.D	0.1
C	80.0	N.D	0.1
D	83.70	N.D	0.1
E	86.70	N.D	0.1
F	24.00	N.D	0.1
G	N.D.	N.D	0.1
H	N.D.	N.D	0.1
I	N.D.	N.D	0.1
J	34.80	N.D.	0.1
K	67.35	N.D.	0.1
L	N.D.	N.D	0.1
FB*	N.D.	N.D	0.1

Test results are in mg/kg (PPM),unless specified.

Legend:

N.D. = Non Detected
FB = Field Blank
MDL = Minimum Detection Limit

TABLE 2.

DATA SUMMARY

BASE NEUTRALS + 15 (BN+15)

NO SIGNIFICANT PEAKS WERE FOUND IN THE CHROMATOGRAMS INCLUDING THE NBS LIBRARY SEARCH IN SAMPLES D AND E.

CHROMATOGRAMS CAN BE SEEN IN APPENDIX 1.

FIGURES

APPENDICES

TECHNION INC.,
250 Delawanna Avenue
Clifton, New Jersey 07014

Lab Dep #: 07190

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

DATE: 11-26-91

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SECTION A:	Laboratory Chronicle - Cover Page (Initial, Continuing Calibration Date/Time, Sample ID, Lab ID Summary
SECTION B:	Quantitative Results (Method Blank, MDL)
SECTION C:	Total Ion Chromatograms and Printout Quantitative Results
SECTION D:	Surrogate Recovery Summary
SECTION E:	Non-Conformance Summary
SECTION F:	GC/MS Tune Summary
SECTION G:	Matrix Spike, Matrix Spike Duplicate Summary
SECTION H:	NBS Library Search Summary
SECTION I:	Methodology Summary
SECTION J:	Chain of Custody

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION A
LABORATORY CHRONICLE, COVER PAGE
(INITIAL, CONTINUING CAL.DATE/TIME, SAMPLE ID, LAB ID SUMMARY)

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014
201-773-5013
FAX #: 201-773-4788

LAB DEP #: 07190

CLIENT: Hill Cross Engineering Company **DATE:** 12-2-91
CLIENT REF: 111491 **TECHNION REF:** 15579
MATERIAL: Thirteen (13) samples **DATE RECEIVED:** 11-14-91
LAB ID: T10836

PROJECT NAME: Florasynth

ANALYSIS REQ: Total Petroleum Hydrocarbons and BN+15on sample D & E

The above samples were received on 11-14-91 and analyzed as requested.

ANALYST: Mara Fishman

CERTIFICATE OF ANALYSIS

TEST RESULTS:

All test results are as attached

Respectfully submitted,

Susan Baturay, D.Sc.
Laboratory Director

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

LABORATORY CHRONICLE

CLIENT: Hill Cross Engineering Company **DATE:** 12-2-91

PROJECT NAME: Florasynth **PARAMETERS:** TPHCs, BN+15

SAMPLES: Thirteen (13) samples **DATE RECEIVED:** 11-14-91

DATE SAMPLED: 11-14-91 **LAB SUPERVISOR:** Osman Tanrikulu

DATE EXTRACTED: 11-14-91-TPHCs (All samples) **ANALYST:** Mara Fishman
11-18-91-BN+15 (Sample D & E)

DATE ANALYZED: 11-15-91-TPHCs-(All samples)
11-20-91-BN+15 (Sample D & E)

DATE REPORTED: 11-26-91

ADDITIONAL INFORMATION:

	BN+15
Initial Calibration Date/Time:	11-15-91/10:30
Continuing Calibration Date/Time:	11-22-91/11:30

SAMPLE ID - LAB ID

SAMPLE ID	LAB ID
Method Blank	BNAKA26A
D	BNAKA38A
E	BNAKA35A

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION B

QUANTITATIVE RESULTS
(METHOD BLANK, MDL)

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

CLIENT: Hill Cross Engineering Company **RUN DATE:** 11-15-91

PROJECT: Florasynth **DATE SAMPLED:** 11-14-91

LAB ID: T-10836

TEST RESULTS FOR TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	RESULTS	BLANK	MDL
A	66.60	N.D.	0.1
B	N.D.	N.D.	0.1
C	80.0	N.D.	0.1
D	83.70	N.D.	0.1
E	86.70	N.D.	0.1
F	24.00	N.D.	0.1
G	N.D.	N.D.	0.1
H	N.D.	N.D.	0.1
I	N.D.	N.D.	0.1
J	34.80	N.D.	0.1
K	67.35	N.D.	0.1
L	N.D.	N.D.	0.1
Field Blank(mg/l)	N.D.	N.D.	0.1

Test results are in mg/kg (ppm), unless specified.

N.D.: Not Detected
MDL: Minimum Detection Limit

BASE NEUTRALS

RUN DATE/TIME: 11-20-91/16:35

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

SAMPLE: Soil

SAMPLE I.D.#: E

LAB I.D.#: BNAKA35A

MOISTURE (%): 10.5

TECHNION NJDEP I.D. #07190
EPA METHOD: 625, 8250, 8270
ANALYSIS BY GC/MS BASE NEUTRALS

PARAMETERS	RESULTS	BLANK	MDL
Acenapthene	N.D.	N.D.	380.0
Acenaphthylene	N.D.	N.D.	380.0
Anthracene	N.D.	N.D.	380.0
Benzidine	N.D.	N.D.	380.0
Benzo (a) Anthracene	N.D.	N.D.	380.0
Benzo (b) Flouranthene	N.D.	N.D.	380.0
Benzo (k) Fluoranthene	N.D.	N.D.	380.0
Benzo (a) Pyrene	N.D.	N.D.	380.0
Benzo (g,h,i) Perylene	N.D.	N.D.	380.0
Benzyl Butyl Phthalate	N.D.	N.D.	380.0
Bis-(2-Chloroethyl) Ether	N.D.	N.D.	380.0
Bis-(2-Chloroethoxy) Methane	N.D.	N.D.	380.0
Bis-(2-Ethylhexyl) Phthalate	N.D.	N.D.	380.0
Bis-(2-Chloroisopropyl) Ether	N.D.	N.D.	380.0
4-Bromophenyl Phenyl Ether	N.D.	N.D.	380.0
2-Chloronaphthalene	N.D.	N.D.	380.0
4-Chloronaphthalene	N.D.	N.D.	380.0
4-Chlorophenyl Phenyl Ether	N.D.	N.D.	380.0
Chrysene	N.D.	N.D.	380.0
Dibenzo (a,h) Anthracene	N.D.	N.D.	380.0
Dibenzofuran	N.D.	N.D.	380.0
Di-n-Butyl Phthalate	N.D.	N.D.	380.0
1,2-Dichlorobenzene	N.D.	N.D.	380.0
1,3-Dichlorobenzene	N.D.	N.D.	380.0
1,4-Dichlorobenzene	N.D.	N.D.	380.0
3-3-Dichlorobenzidine	N.D.	N.D.	380.0
Diethylphthalate	N.D.	N.D.	380.0
Dimethylphthalate	N.D.	N.D.	388.0
2,4-Dinitrotoluene	N.D.	N.D.	380.0
2,6-Dinitrotoluene	N.D.	N.D.	380.0

BASE NEUTRALS

RUN DATE/TIME: 11-20-91/16:35

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

SAMPLE: Soil

SAMPLE I.D.: E

LAB I.D.: BNAKA35A

MOISTURE (%): 10.5

PARAMETERS	RESULTS	BLANK	MDL
Di-n-Octylphthalate	N.D.	N.D.	380.0
1,2-Diphenylhydrazine	N.D.	N.D.	380.0
Fluoranthene	N.D.	N.D.	380.0
Fluorene	N.D.	N.D.	380.0
Hexachlorobenzene	N.D.	N.D.	380.0
Hexachlorobutadiene	N.D.	N.D.	380.0
Hexachlorocyclopentadiene	N.D.	N.D.	380.0
Hexachloroethane	N.D.	N.D.	380.0
Indeno (1,2,3-cd) Pyrene	N.D.	N.D.	380.0
Isophorone	N.D.	N.D.	380.0
2-Methylnaphthalene	N.D.	N.D.	380.0
Naphthalene	N.D.	N.D.	380.0
Nitrobenzene	N.D.	N.D.	380.0
N-Nitrosodimethylamine	N.D.	N.D.	380.0
N-Nitroso di-n-Propylamine	N.D.	N.D.	380.0
N-Nitrosodiphenylamine	N.D.	N.D.	380.0
Phenanthrene	N.D.	N.D.	380.0
Pyrene	N.D.	N.D.	380.0
1,2,4-Trichlorobenzene	N.D.	N.D.	380.0

All test results are in ug/kg (on dry basis), unless specified.

N.D.: Not Detected
MDL: Minimum Detection Limit

CYCLE CHEM

RECYCLING TREATMENT & DISPOSAL OF HAZARDOUS WASTE

LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

This form meets generator restricted waste notification to Cycle Chem as required by 40 CFR Part 268.7.

GENERATOR: FLORASYNTH INC.

...A. I.D. # NJD070570122 MANIFEST NJA1387392

Waste Analysis available? Y _____ N X . If Yes, attach a copy per 40 CFR Part 268.7(a)(i)(iv).

A. F001, F002, F003, F004, F005 SOLVENT RESTRICTIONS

Product Code: _____

___ **This shipment contains the EPA Hazardous Waste** _____

his restricted waste category is banned from land disposal under 40 CFR 268.30 and is subject to one or more treatment standards under 40 CFR Subpart . Complete the information below by circling the appropriate waste constituent and check the applicable notification statement below.

Constituent	Concentration Standard in Extract, mg/1	Constituent	Concentration Standard in Extract, mg/1	Constituent	Concentration Standard in Extract, mg/1
Acetone	0.59	10. Ethylbenzene	0.053	18. Pyridine	0.33
n-Butyl Alcohol	5.00	11. Ethyl ether	0.75	19. Tetrachloroethylene	0.05
Carbon Disulfide	4.81	12. Isobutanol	5.00	20. Toluene	0.33
Carbon Tetrachloride	0.96	13. Methanol	0.75	21. 1,1,1-Trichloroethane	0.41
Chlorobenzene	0.05	14. Methylene chloride	0.96	22. 1,1,2-Trichloro-1,2,2-Trifluoroethane	0.96
Cresols (and cresylic acid)	0.75	15. Methyl ethyl ketone	0.75	23. Trichloroethylene	0.091
Cyclohexanone	0.75	16. Methyl isobutyl ketone	0.33	24. Trichlorofluoromethane	0.96
1,2-Dichlorobenzene	0.125	17. Nitrobenzene	0.125	25. Xylene	0.15
Ethyl acetate	0.75				

_____ TREATMENT STANDARD — 40 CFR (See Table 1) ☐ 268.41(a) ☐ 268.42(a) ☐ 268.43(a)

B. CALIFORNIA LIST NOTIFICATION

Product Code: _____

___ **This shipment contains the EPA Hazardous Waste** _____

dditional notification is required under 40 CFR 268.32(j) to state specific characteristics for which land disposal is prohibited. If your waste contains any of hese constituents or meets any of these properties, please check below.

1) _____ PCB ≥ 50 ppm 2) _____ Halogenated organic carbon, (HOC's) ≥ 1000 mg/1

_____ Liquids or any free liquids associated with any solid or sludge, containing the following metals or compounds of these metals:

_____ Nickel (Ni) ≥ 134 mg/1 _____ Thallium (Tl) ≥ 130 mg/1

C. RESTRICTED WASTE NOTIFICATION

ertain waste streams have been restricted from land disposal effective May 8, 1990. Restricted wastes acceptable at Cycle Chem are listed in the attached able 1. If your waste is classified as any of those listed in Table 1, write your product code(s); the waste code(s) and any applicable subcategories (e.g. ignitable Liquids, D001, with TOC > 10%); check the corresponding treatment standard from Table 1 as referenced by the 40 CFR 268.41, 268.42, or 58.43 designation, check if the waste is a waste water (ww) or non waste water (nww), and check the notification statement below. For wastes listed in 58.42, a 5 letter treatment code must be listed (see Table 1).

TREATMENT STANDARD - 40 CFR

Example:		5 letter treatment code	268.41(a)	268.42(a)	268.43(a)	268	ww	nww	applicable subcategory
Product Code: 10012-15	Code(s): D001	FSUBS	☐	☒	☐	☐	☐	☒	Ignitable D001 Liquid with TOC > 10%
Product Code:	Code(s):		☐	☐	☐	☐	☐	☐	
Product Code:	Code(s):		☐	☐	☐	☐	☐	☐	
Product Code:	Code(s):		☐	☐	☐	☐	☐	☐	
Product Code:	Code(s):		☐	☐	☐	☐	☐	☐	

✓) ____ I notify that I personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this otification that the waste does not comply with the treatment standards specified in 40 CFR 268, Subpart D, or RCRA Section 3004(d), and all applicable rohibitions set forth in appropriate regulatory treatment standards (to the appropriate treatment standard, if applicable) prior to land disposal.

D. NON/HAZARDOUS WASTE CERTIFICATION

your waste does not fall into the categories listed above in Items A, B, or C, write in the Product Code(s) and the State Waste Code(s) and check the ollowing notification statement.

Product Codes: 342368-LM243 Codes(s): X725 Product Codes: _____ Codes(s): _____

Product Codes: _____ Codes(s): _____ Product Codes: _____ Codes(s): _____

✓) ____ I notify that I have personally examined and am familiar with the waste through analysis and testing or through notification that the waste is not estricted as specified in 40 CFR 268, Subpart D and all applicable prohibitions set forth in 268.32 or RCRA 3004(d).

E. CHANGE VERIFICATION

eby authorize Cycle Chem to amend and/or correct any information on the LDR with the full understanding that if any amendment or correction is rmed, I will be contacted as such to issue my approval. Initial: CB

Signature: William Calbo Date: Feb 4, 1992

Print Name: William Calbo Title: Plant Engineer

PLEASE INCLUDE THIS NOTIFICATION WITH ORIGINAL SIGNATURE WITH YOUR MANIFEST!

YHW-007 (REV. 8/88)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: NJA 1387392

B. State Generator's ID: SAME

3. Generator's Name and Mailing Address: FLORASYNTH INC, 308 NORTH STREET, PETERBORO, NJ 07608-0000

4. Generator's Phone (908) 506-0000 503-0255

5. Transporter 1 Company Name: Clean Venture, Inc.

6. US EPA ID Number: NJD982221016

C. State Trans. ID: NJDKP85611

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (908) 442-4900

E. State Trans. ID

9. Designated Facility Name and Site Address: CYCLE CHEM INC, 217 SOUTH FIRST ST, ELIZABETH, NJ 07206-0000

10. US EPA ID Number: NJD002122018

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone (908) 355-5100

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	WASTE PETROLEUM NAPHTHA LIQUID, UN 3077/NON RCRA, EX FUEL WATER (X725)		DM	XX9910	P	2 7 2 5
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above: Contains 2% Naphthalene, Metal-2% Specialty Soil, Absorbent-Yard Garbage Dumps 90-97%

K. Handling Codes for Wastes Listed Above: a. b. c. d.

15. Special Handling Instructions and Additional Information: (a) Pro.Code 342368-LM243 EMERGENCY PHONE #908-442-4900 Clean Venture, Inc. Decal #63708 Plate #XL-41MB

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: William Calbo — Signature: [signature] — Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MICHAEL A. VASACORE — Signature: [signature] — Month Day Year 10 20 1992

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

6 — GENERATOR MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

Testing and Research Laboratory
250 Delawanna Avenue
Clifton, New Jersey 07014
201-773-5013
FAX #: 201-773-4788

Project Description: FILORASYNTH

CHECK REPORT TYPE REQUIRED

- EPA TIER I (CLP) [ ]
- EPA TIER II (CLP) [ ]
- RESULTS ONLY III [X]
- NJ ECRA II [ ]
- NJ TIER 1b [ ]
- NY DEC CLP [ ]
- OTHER [ ]
- DATE DUE EXPRESS

ATTN:

Sampler (Signature):

CHARGE + !

Page ___ of ___

NO. OF SAMPLE CONTAINERS

STATION	DATE	TIME (Military)	SAMPLE DESCRIPTION	Volatile Organic Compounds	Acid Extractable Compounds	Base/Neutral Extractable Compounds	Pesticides	PCB's	Metals	Phenol	Cyanide	Petroleum Hydrocarbons	EP Toxicity - Organics	EP Toxicity - Inorganics	Reactivity	Ignitability	Corrosivity	(Other) TPHC	REMARKS
	12:14	1435	K															X	
		1441	L															X	
			FIELD BL															X	

Relinquished by (Signature):	Date	Time (Military)	Received by (Signature):	Date	Time (Military)	Relinquished by (Signature):	Date	Time (Military)	Received by (Signature)	Date	Time (Military)
	11/14	1440		4/24	15/20						
		Time			Time						

REMARKS:

Testing and Research Laboratory
250 Delawanna Avenue
Clifton, New Jersey 07014
201-773-5013
FAX #: 201-773-4788

Project Description: FLORASYNTH

Sampler (Signature): [signature]

CHECK REPORT TYPE REQUIRED

EPA TIER I (CLP)	
EPA TIER II (CLP)	
RESULTS ONLY III	X
NJ ECRA II	
NJ TIER 1b	
NY DEC CLP	
OTHER	
DATE DUE	EXPRESS!

CHARGE +

ATTN:

NO. OF SAMPLE CONTAINERS

Page ____ of ____

STATION	DATE	TIME (Military)	SAMPLE DESCRIPTION	Volatile Organic Compounds	Acid Extractable Compounds	Base/Neutral Extractable Compounds	Pesticides	PCB's	Metals	Phenol	Cyanide	Petroleum Hydrocarbons	EP Toxicity - Organics	EP Toxicity - Inorganics	Reactivity	Ignitability	Corrosivity	(Other) TPHC	REMARKS
	11-14	1350	A															X	
		1354	B															X	
		1359	C															X	
		1400	D															X	
		1405	E															X	
		1410	F															X	
		1416	G															X	
		1420	H															X	
		1425	I															X	
		1430	J															X	

Relinquished by (Signature):	Date	Time (Military)	Received by (Signature):	Date	Time (Military)	Relinquished by (Signature):	Date	Time (Military)	Received by (Signature)	Date	Time (Military)
[signature]	11/14	14:40	[signature]	11/14	15:17						
		Time			Time						

REMARKS:

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION J
CHAIN OF CUSTODY FORMS

SB/sn
15579

T E C H N I O N I N C.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS
EPA METHOD Modified 418.1

Summary of Method: Approximately 30g of soil sample is mixed with same amount of anhydrous sodium sulfate. Then this mixture is placed in an extraction thimble and extracted with fluorocarbon-113 in a soxhlet extractor for at least 16 hours.

The extract is filtered through silicon gel column in order to absorb oily and greasy material. Then the filtrate is transferred into a 10mm cell and read on an IR instrument at about 2930cm.

T E C H N I O N I N C.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

ANALYSIS OF SOIL SAMPLES FOR BASE-NEUTRALS EXTRACTABLE COMPOUNDS

Ref./Title: Methods for evaluating solid waste (SW-846) Second Edition, U.S. EPA 1982, Method 3540, and Code of Federal Regulations 40, Part 136, Appendix A, Revised July 1985, Method 8270 (8250)

Method Summary: After the determination of a moisture percent of sample, (SM, 15th Ed., Section 209A) a 30g on a dry basis is mixed with anhydrous sodium sulfate and placed in an extraction thimble. The sample is then extracted with methylenechloride for 16 hours. The extract is dried and filtered through a column of sodium sulfate into a Kuderna-Danish concentrating apparatus. The concentrated extract (1 to 10ml) is analyzed by GC Mass Spectrometer.

GC Column: SPH-5 Capillary Column

GC/Conditions:

Initial Time	-	4.0 min.
Initial Temp.	-	35°C
Ramp Rate	-	8°C/min
Final Temp.	-	290°C

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION I
METHODOLOGY SUMMARY

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company

PROJECT: Florasynth

TENTATIVELY IDENTFIFIED COMPOUNDS FOR BASE NEUTRALS

No extra peak was found to be identified tantatively as base neutrals for the following sample(s):

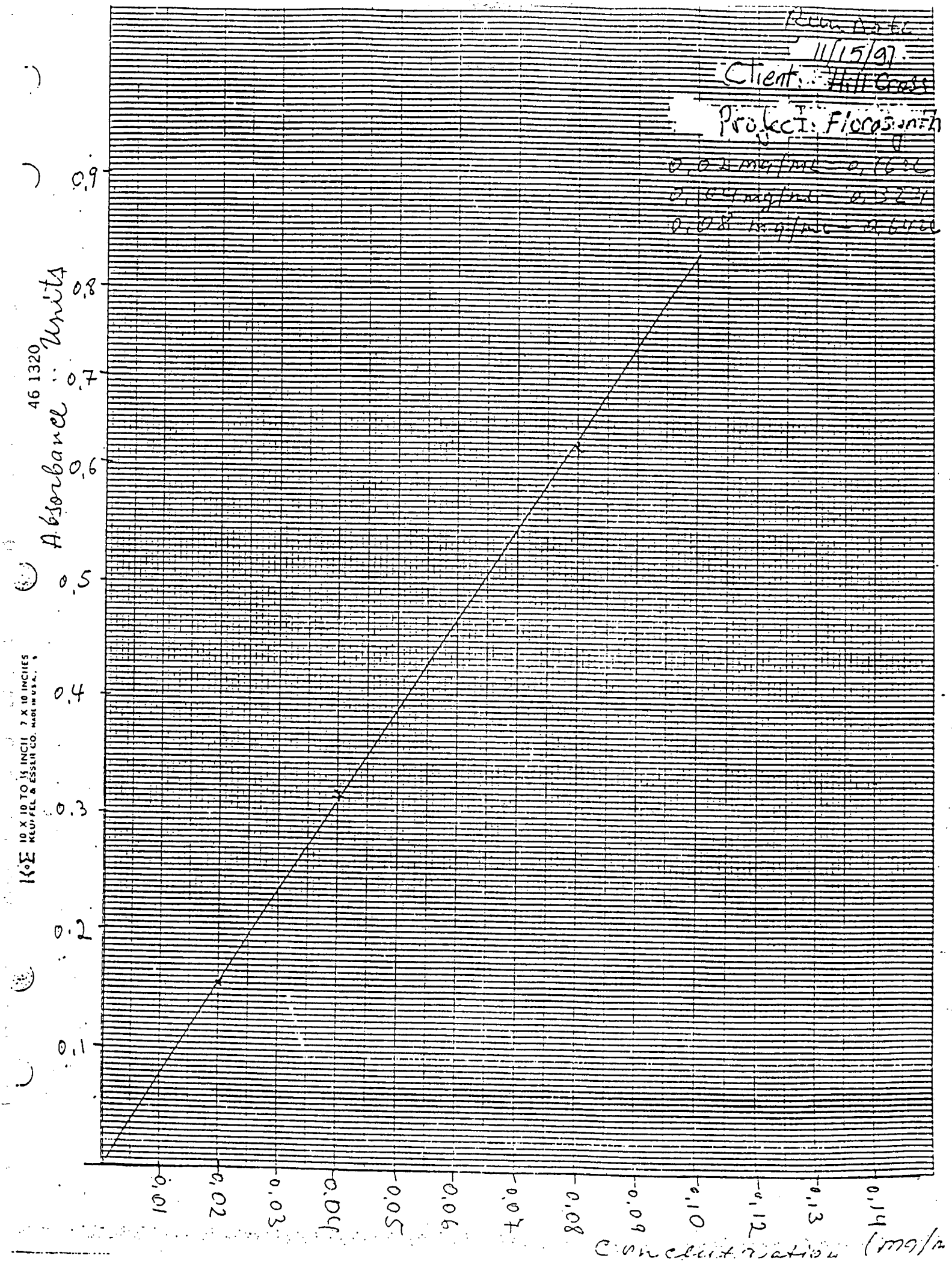
SAMPLE ID	LAB ID
D	BNAKA38A
E	BNAKA35A

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION H
NBS LIBARARY SEARCH SUMMARY



Run Date
11/15/97
Client: Hill Cross
Project: Florosynth
0.02 mg/mL - 0.16 cc
0.04 mg/mL - 0.32 cc
0.08 mg/mL - 0.64 cc
Absorbance : Units
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
0.12
0.13
0.14
Concentration (mg/m
46 1320
K+E 10 X 10 TO ½ INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

EXTRACTION DATE: 11-14-91

CLIENT: Hill Cross Engineering Company
MATERIALS: Soil samples
Project: Florasynth
RUN DATE: 11-15-91

QC AND RECOVERY OF PETROLEUM HYDROCARBONS

METHOD: EPA 418.1 EXTRACTION AND INFRARED SPECTOMETRY
*Sample #: F 10 GR. SAMPLE TAKEN EXTRACTED WITH FREON

FINAL VOLUME : 30 [ml]
ABSORBANCE : 0.08
CORRESPONDING CONC. : 0.008 [mgr/ml]

RESULTS= $\frac{0.008 \times 30}{10} \times 1000 = 24.0$ [mgr/kg]

** Duplicate analysis was performed by taking 15 [gr] of sample and extracting it with freon.

FINAL VOLUME : 30 [ml]
ABSORBANCE : 0.14
CORRESPONDING CONC. : 0.014 [mgr/ml]

RESULTS : $\frac{0.014 \times 30}{15} \times 1000 = 28.0$ [mgr/kg]

*** 10 GR. SAMPLE TAKEN, CONTAINING 0.24 [mgr] of PETROLEUM HYD. 0.6 [mgr] SPIKE ADDED, EXTRACTED WITH FREON.

TOTAL PETROLEUM HYD. : 0.84 mg
FINAL VOLUME : 30 [ml]
ABSORBANCE : 0.26
CORRESPONDING CONC. : 0.026 [mgr/ml]

EXPERIMENTAL RESULTS: $\frac{0.026 \times 30}{10} \times 1000 = 78$ mg/kg Spike Sample

Sample Results : SR = 24 mg/kg
Spiked Sample Results: SSR = 78 mg/kg
Spike Added : SA = 60 mg/kg

% Recovery = [(SSR-SR)/SA] X 100
= [(78-24)/60] X 100
- 90 %

Technion Inc.

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

DATE: 11-20-91

SOIL MATRIX SPIKE MATRIX SPIKE DUPLICATE RECOVERY SUMMARY FOR BASE NEUTRALS

COMPOUNDS	MATRIX SPIKE	MATRIX SPIKE DUP.	%RPD	QC LIMIT %R	QC LIMIT %RPD
1,4 Dichlorobenzene	50.6	47.6	6.1	28-104	27
N Nitroso din-propylamine	70.8	68.6	3.2	41-126	38
1,2,4-Trichlorobenzene	55.4	53.7	3.1	38-107	23
2,4-Dinitrotoluene	49.6	55.4	11.0	28-89	47
Acenapthene	58.4	64.3	9.6	31-137	19

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

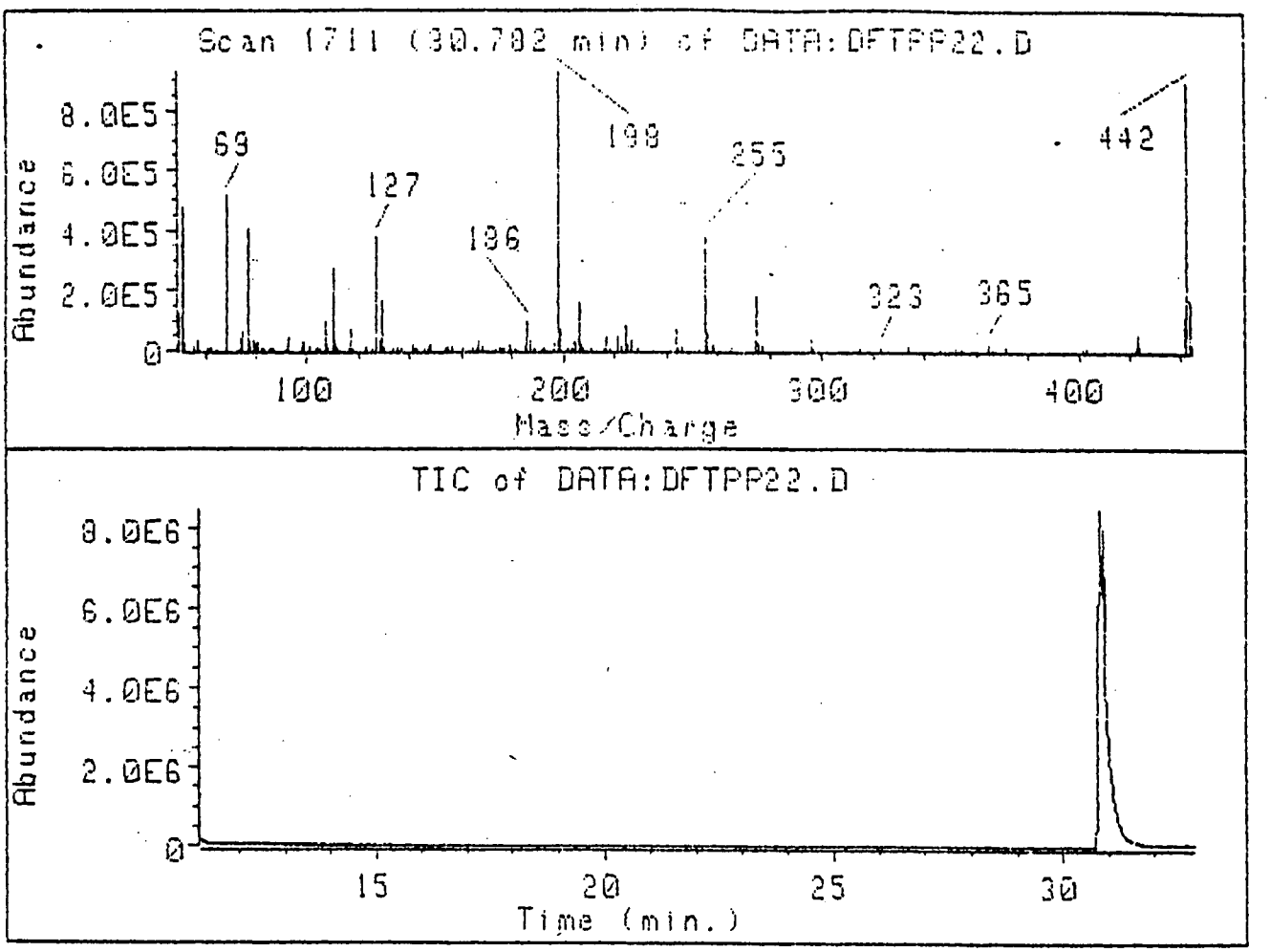
LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION G
MATRIX SPIKE, MATRIX SPIKE DUP. SUMMARY

Scan 1711 (30.782 min) of DATA:DFTPP22.D
DFTPP22

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	1297	110.05	2915	175.05	39	244.95	124
51.00	5150	110.95	346	176.95	68	245.95	126
52.00	280	112.05	49	178.95	247	253.00	56
56.00	162	116.05	91	179.95	161	255.00	4092
57.00	359	116.95	730	180.95	66	256.00	527
61.00	59	118.05	54	185.05	129	259.00	197
62.00	65	121.95	61	185.95	1036	265.00	74
63.00	140	123.05	118	186.95	303	273.00	117
65.00	79	125.05	53	188.95	48	274.00	353
69.00	5541	127.05	4069	192.05	91	275.00	1974
73.10	62	128.05	362	192.95	88	276.00	275
74.00	409	128.95	1825	196.05	293	277.00	132
75.00	675	129.95	143	197.95	10000	296.00	392
77.00	4366	133.95	51	198.95	732	297.00	67
78.00	329	134.95	132	201.45	46	315.00	71
79.00	314	136.95	59	203.05	47	323.00	155
80.00	224	140.95	191	204.05	235	334.00	116
81.00	295	141.95	68	204.95	400	346.00	43
82.00	72	143.05	36	206.05	1045	352.00	51
82.90	69	146.05	41	207.05	222	354.00	77
85.05	54	146.95	104	207.95	55	365.00	244
86.05	86	147.95	192	210.95	77	366.00	41
87.05	47	152.95	65	216.05	46	372.00	112
91.05	90	154.05	43	216.95	452	402.00	48
92.05	92	155.05	98	217.95	57	403.00	68
93.05	452	156.05	145	220.95	453	421.05	66
98.05	299	159.95	58	222.95	98	422.05	74
99.05	257	160.95	90	224.05	879	423.05	543
101.05	149	164.95	87	225.05	222	424.05	114
103.05	60	166.05	62	226.95	334	441.05	1407
104.05	101	166.95	343	228.95	78	442.05	9628
105.05	88	168.05	120	241.95	52	443.05	1830
107.05	1070	173.95	89	243.05	62	444.05	170
108.05	174	175.05	128	243.95	728		


Scan 1711 (30.702 min) of DATA:DFTPP22.D
Abundance
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4.0E5
2.0E5
0
69
127
186
198
255
323
365
442
100
200
300
400
Mass/Charge
TIC of DATA:DFTPP22.D
Abundance
8.0E6
6.0E6
4.0E6
2.0E6
0
15
20
25
30
Time (min.)

TECHNION INC.,
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

QUALITY ASSURANCE DATA - SEMI-VOLATILE ORGANICS ANALYSIS

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP) PERFORMANCE CHECK

DATE OF ANALYSIS	11-20-91	9:20	%REL. ABUDANCE
ION ABUNDANCE CRITERIA	M/Z	%REL. ABUND.	REQUIRED ION XXXXXXXXXXXXXXXXX
30.0-60.0% OF BASE PEAK	51	51.5	XXXXXXXXXXXXXXXXX
<2.0% OF MASS 69	68	0.0	<1.1
MASS 69 REL. ABUDANCE	69	55.4	XXXXXXXXXXXXXXXXX
<2.0% OF MASS 69	70	0.0	<1.1
40.0-60% OF MASS 198	127	40.0	XXXXXXXXXXXXXXXXX
<1.0 OF MASS 198	197	0.0	XXXXXXXXXXXXXXXXX
BASE PEAK,100%REL.ABUND	198	100.0	XXXXXXXXXXXXXXXXX
5.0-9.0% OF MASS 198	199	7.3	XXXXXXXXXXXXXXXXX
10.0-30.0% OF MASS 198	275	19.7	XXXXXXXXXXXXXXXXX
>1.0% OF MASS 198	365	2.4	XXXXXXXXXXXXXXXXX
PRESENT, <MASS 443	441	14.1	XXXXXXXXXXXXXXXXX
>40.0% OF MASS 198	442	96.2	XXXXXXXXXXXXXXXXX
17.0-23.0% OF MASS 442	443	18.3	16.3-22.1

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION F
GC/MS TUNE SUMMARY

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Project: Florasynth

STATEMENT OF NON-CONFORMANCE

All parameters are in total compliance with EPA methods SW-846, 625, 8270 and 418.1, QA/QC requirements.

Laboratory Manager,
Omar Baturay

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION E

NON-CONFORMANCE SUMMARY

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

SAMPLE: Thirteen (13) samples

SOIL SURROGATE RECOVERIES FOR
BASE NEUTRAL EXTRACTABLES

SAMPLE ID	LAB ID	NITRO BENZENE-d5 (23-120)	2-Fluorobiphenyl (30-116)	4-Therphenyl d-14 (18-137)
Method Blk.	BNAKA26A	45.4	49.8	32.0
D	BNAKA38A	43.6	53.9	60.8
E	BNAKA37A	52.2	60.2	72.0

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION D

SURROGATE RECOVERY SUMMARY

*** Internal Standard ***

Operator: TECHNION NJDEP #07190 20 Nov 91 4:35 pm
Sample Info : HCE
Misc Info:
Integration File Name : A.35A.I
Bottle Number : 35

Last Update: 22 Nov 91 1:45 pm
Reference Peak Window: 5.00 % of Retention Time
Non-Reference Peak Window: 5.00 % of Retention Time
Sample Amount: 0.000 Uncalibrated Peak RF: 0.000 Multiplier: 1.000

Peak Num	Type	Int Type	Ret Time	Signal Description	Compound Name	Height	Amount
1	+ISTD	1BB	20.627	Total Ion	14DCLBENZ	237604	40.00 ng/ul
2		1BB	22.405	Total Ion	NBENZD5	137734	52.22 ng/ul
3	+ISTD	2BB	24.347	Total Ion	NAPHTTAL D8	340524	40.00 ng/ul
4		2VV	27.075	Total Ion	2FLBPENYL	386414	60.24 ng/ul
5	+ISTD	3BB	32.252	Total Ion	PHEN D10	728740	40.00 ng/ul
6		3BV	36.714	Total Ion	P THERF D14	330234	71.98 ng/ul

*** Internal Standard ***

Operator: TECHNION NJDEP #07190 19 Nov 91 12:32 pm
Sample Info : M.B.
Misc Info:
Integration File Name : DATA:A26A.I
Bottle Number : 96

Last Update: 22 Nov 91 1:45 pm
Reference Peak Window: 5.00 % of Retention Time
Non-Reference Peak Window: 5.00 % of Retention Time
Sample Amount: 0.000 Uncalibrated Peak RF: 0.000 Multiplier: 1.000

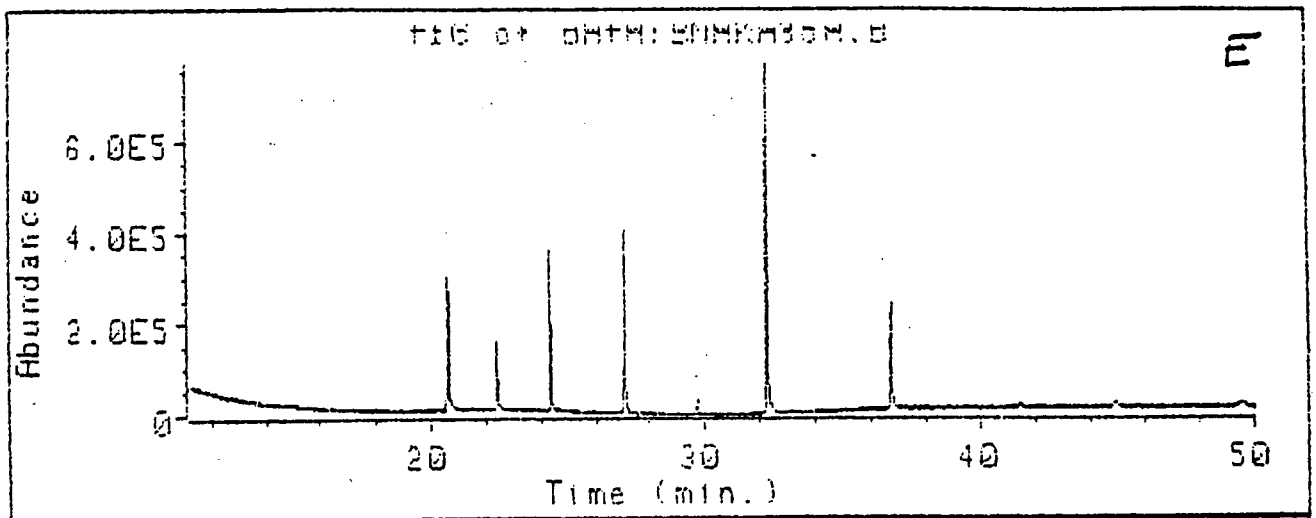
Peak Num	Type	Int Type	Ret Time	Signal Description	Compound Name	Height	Amount
1	+ISTD	1BV	20.584	Total Ion	14DCLBENZ	167606	40.00 ng/ul
2		1BV	22.359	Total Ion	NBENZDS	63829	45.41 ng/ul
3	+ISTD	2BV	24.309	Total Ion	NAPHTTAL D8	183615	40.00 ng/ul
4		2BB	27.046	Total Ion	2FLBPENYL	172314	49.82 ng/ul
5	+ISTD	3BB	32.217	Total Ion	PHEN D10	286553	40.00 ng/ul
6		3VB	36.665	Total Ion	P THERP D14	40229	31.99 ng/ul

*** Internal Standard ***

Operator: TECHNION NJDEP #07190 20 Nov 91 9:52 am
Sample Info : HCD
Misc Info:
Integration File Name : DATA:A36A.I
Bottle Number : 36

Last Update: 22 Nov 91 1:45 pm
Reference Peak Window: 5.00 % of Retention Time
Non-Reference Peak Window: 5.00 % of Retention Time
Sample Amount: 0.000 Uncalibrated Peak RF: 0.000 Multiplier: 1.000

Peak Num	Type	Int Type	Ret Time	Signal Description	Compound Name	Height	Amount
1	+ISTD	1BV	20.726	Total Ion	14DCLBENZ	153353	40.00 ng/ul
2		1BV	22.498	Total Ion	NBENZDS	81339	43.59 ng/ul
3	+ISTD	2BV	24.443	Total Ion	NAPHTTAL D8	176510	40.00 ng/ul
4		2BB	27.176	Total Ion	2FLBPENYL	179112	53.87 ng/ul
5	+ISTD	3BV	32.353	Total Ion	PHEN D10	327877	40.00 ng/ul
6		3PV	36.384	Total Ion	P THERP D14	37532	30.93 ng/ul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E
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4.0E5
2.0E5
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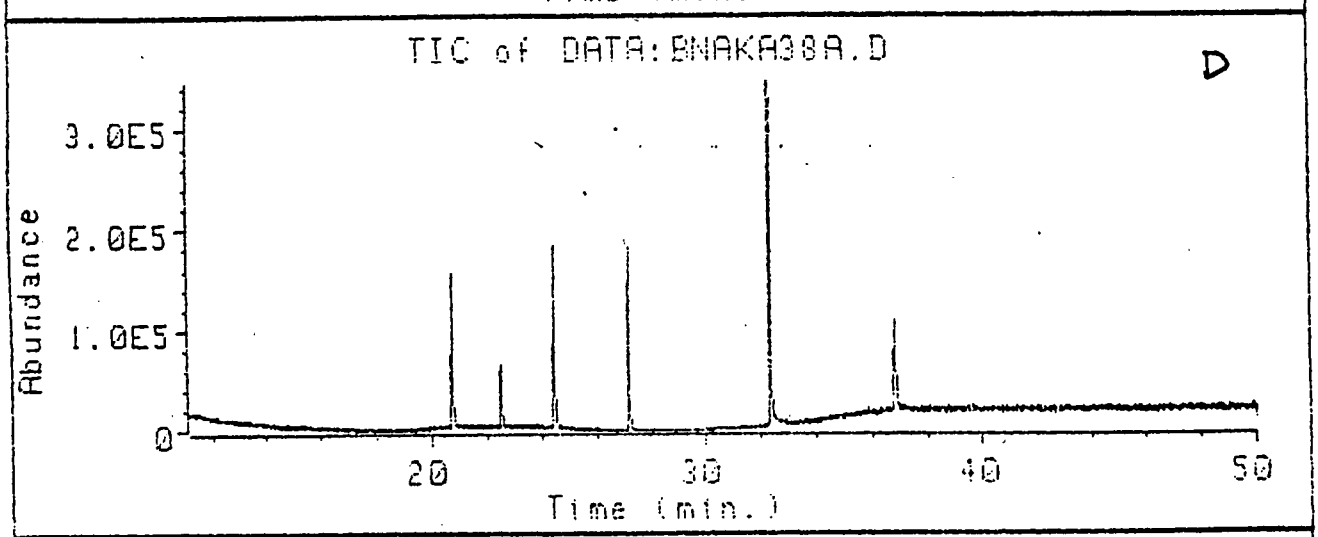
Abundance
20
30
40
50
Time (min.)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D
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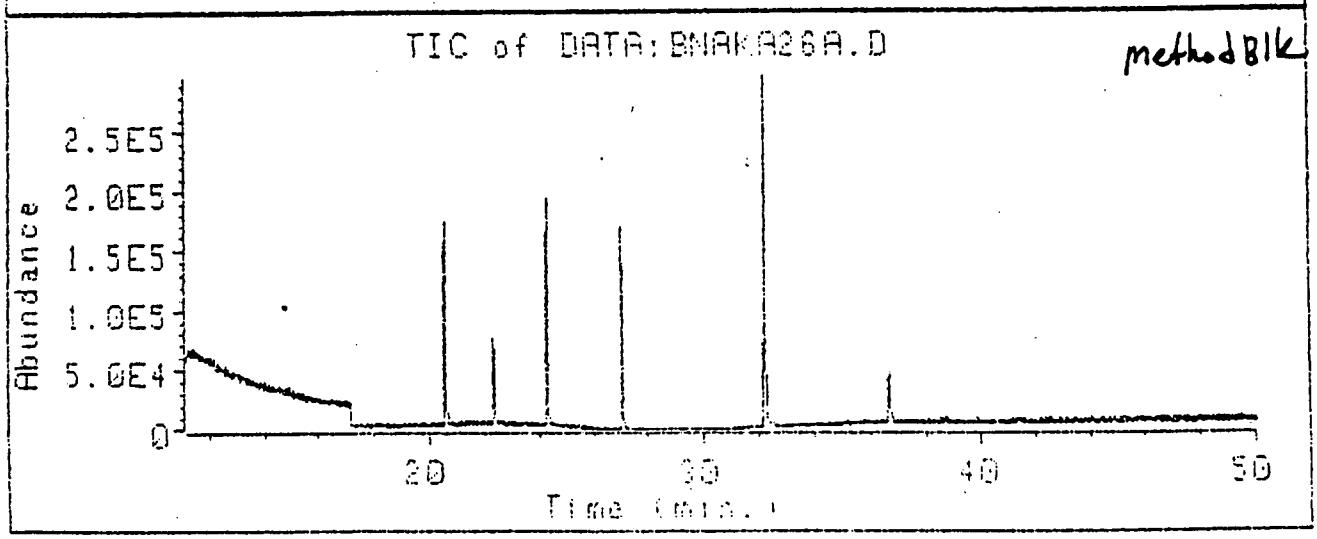
2.0E5
1.0E5
0
Abundance
20
30
40
50
Time (min.)


TIC of DATA:BNAKA26A.D
method Blk
2.5E5
2.0E5
1.5E5
1.0E5
5.0E4
0
Abundance
20
30
40
50
Time (min.)

TECHNION INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

LAB DEP #: 07190

Client: Hill Cross Engineering Company
Test Report No.: T10836

SECTION C
TOTAL ION CHROMATOGRAMS AND PRINTOUT OF QUANTITATIVE RESULTS

BASE NEUTRALS

RUN DATE/TIME: 11-20-91/9:52

SAMPLE: Soil

CLIENT: Hill Cross Engineering Company

SAMPLE I.D.: D

PROJECT: Florasynth

LAB I.D.: BNAKA38A

MOISTURE (%): 11.0

PARAMETERS	RESULTS	BLANK	MDL
Di-n-Octylphthalate	N.D.	N.D.	399.7
1,2-Diphenylhydrazine	N.D.	N.D.	399.7
Fluoranthene	N.D.	N.D.	399.7
Fluorene	N.D.	N.D.	399.7
Hexachlorobenzene	N.D.	N.D.	399.7
Hexachlorobutadiene	N.D.	N.D.	399.7
Hexachlorocyclopentadiene	N.D.	N.D.	399.7
Hexachloroethane	N.D.	N.D.	399.7
Indeno (1,2,3-cd) Pyrene	N.D.	N.D.	399.7
Isophorone	N.D.	N.D.	399.7
2-Methylnaphthalene	N.D.	N.D.	399.7
Naphthalene	N.D.	N.D.	399.7
Nitrobenzene	N.D.	N.D.	399.7
N-Nitrosodimethylamine	N.D.	N.D.	399.7
N-Nitroso di-n-Propylamine	N.D.	N.D.	399.7
N-Nitrosodiphenylamine	N.D.	N.D.	399.7
Phenanthrene	N.D.	N.D.	399.7
Pyrene	N.D.	N.D.	399.7
1,2,4-Trichlorobenzene	N.D.	N.D.	399.7

All test results are in ug/kg (on dry basis), unless specified.

N.D.: Not Detected
MDL: Minimum Detection Limit

BASE NEUTRALS

RUN DATE/TIME: 11-20-91/9:52

CLIENT: Hill Cross Engineering Company

PROJECT: Florasynth

SAMPLE: Soil

SAMPLE I.D.#: D

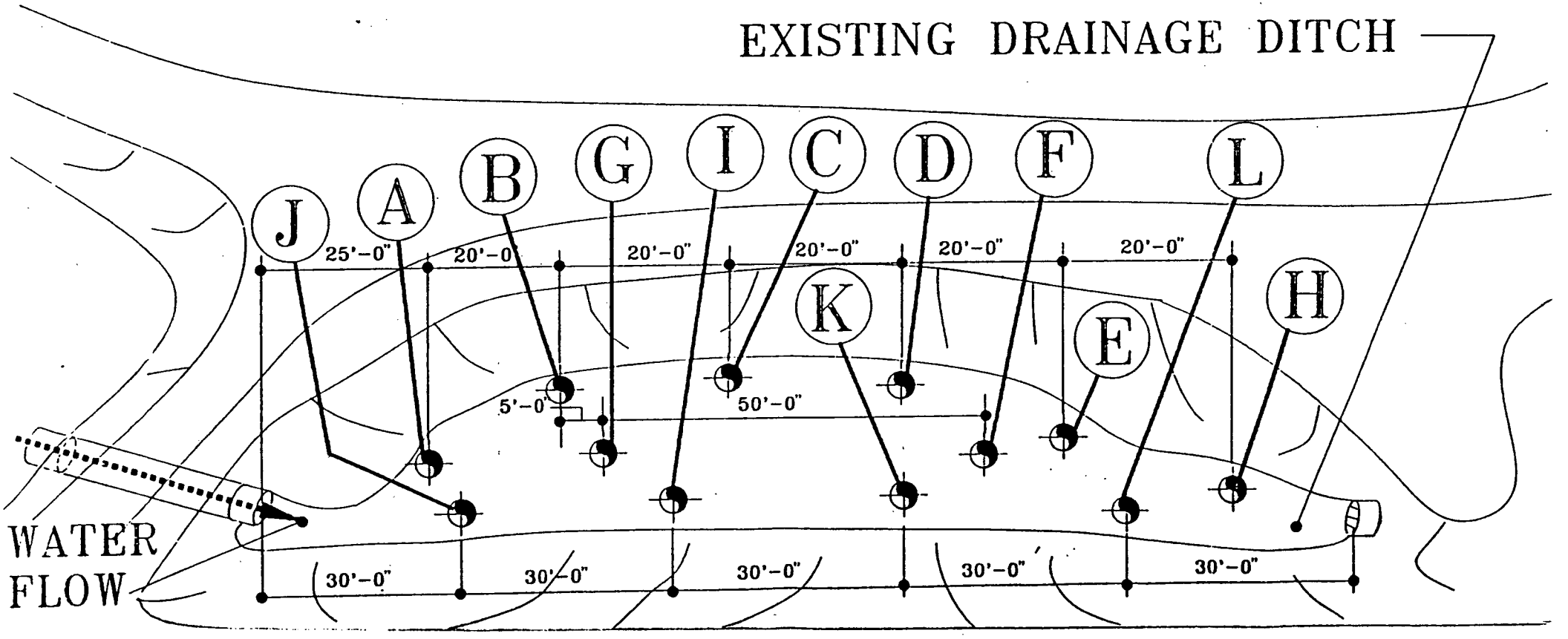
LAB I.D.#: BNAKA38A

MOISTURE (%): 11.0

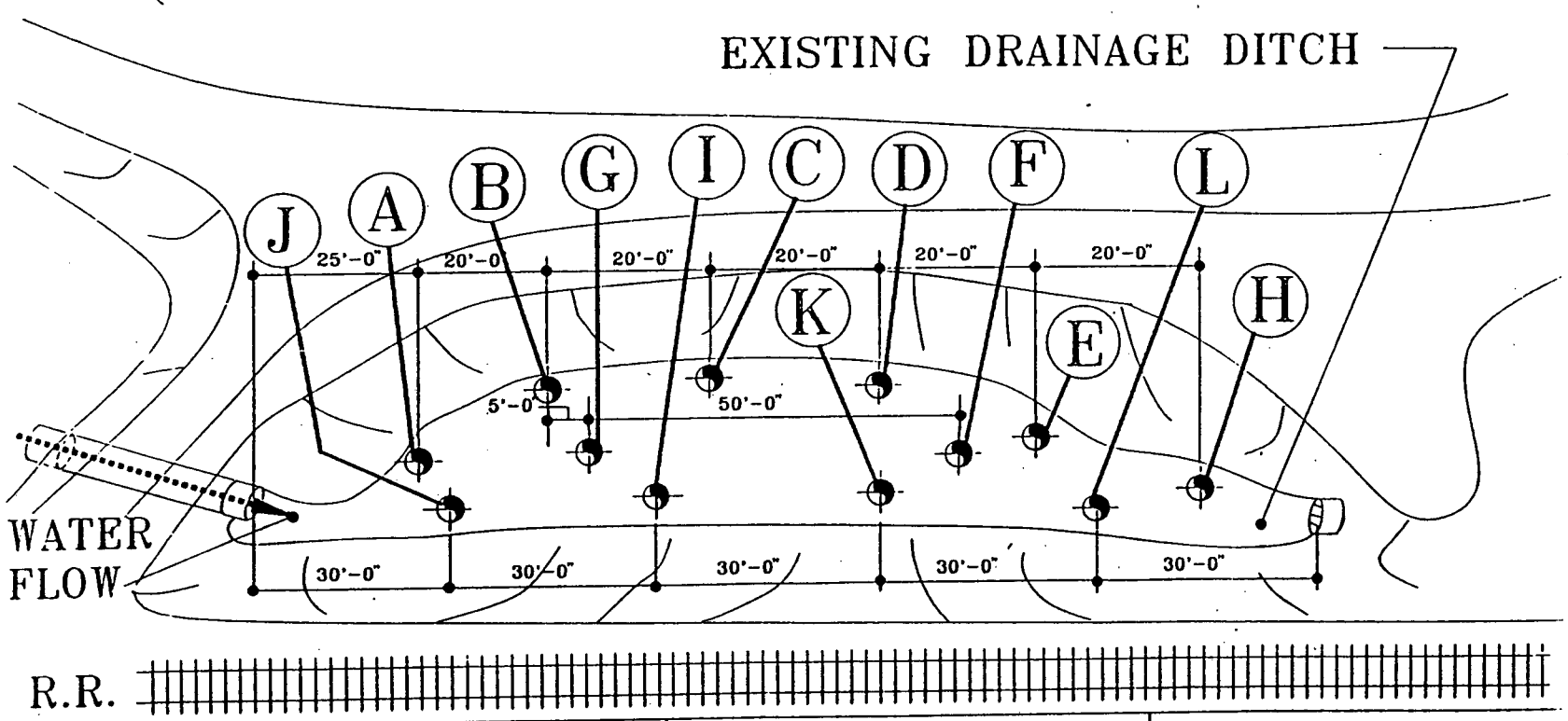
TECHNION NJDEP I.D. #07190
EPA METHOD: 625, 8250, 8270
ANALYSIS BY GC/MS BASE NEUTRALS

PARAMETERS	RESULTS	BLANK	MDL
Acenapthene	N.D.	N.D.	399.7
Acenaphthylene	N.D.	N.D.	399.7
Anthracene	N.D.	N.D.	399.7
Benzidine	N.D.	N.D.	399.7
Benzo (a) Anthracene	N.D.	N.D.	399.7
Benzo (b) Flouranthene	N.D.	N.D.	399.7
Benzo (k) Fluoranthene	N.D.	N.D.	399.7
Benzo (a) Pyrene	N.D.	N.D.	399.7
Benzo (g,h,i) Perylene	N.D.	N.D.	399.7
Benzyl Butyl Phthalate	N.D.	N.D.	399.7
Bis-(2-Chloroethyl) Ether	N.D.	N.D.	399.7
Bis-(2-Chloroethoxy) Methane	N.D.	N.D.	399.7
Bis-(2-Ethylhexyl) Phthalate	N.D.	N.D.	399.7
Bis-(2-Chloroisopropyl) Ether	N.D.	N.D.	399.7
4-Bromophenyl Phenyl Ether	N.D.	N.D.	399.7
2-Chloronaphthalene	N.D.	N.D.	399.7
4-Chloronaphthalene	N.D.	N.D.	399.7
4-Chlorophenyl Phenyl Ether	N.D.	N.D.	399.7
Chrysene	N.D.	N.D.	399.7
Dibenzo (a,h) Anthracene	N.D.	N.D.	399.7
Dibenzofuran	N.D.	N.D.	399.7
Di-n-Butyl Phthalate	N.D.	N.D.	399.7
1,2-Dichlorobenzene	N.D.	N.D.	399.7
1,3-Dichlorobenzene	N.D.	N.D.	399.7
1,4-Dichlorobenzene	N.D.	N.D.	399.7
3-3-Dichlorobenzidine	N.D.	N.D.	399.7
Diethylphthalate	N.D.	N.D.	399.7
Dimethylphthalate	N.D.	N.D.	399.7
2,4-Dinitrotoluene	N.D.	N.D.	399.7
2,6-Dinitrotoluene	N.D.	N.D.	399.7

ALL SOIL SAMPLES, A THROUGH K, WERE TAKEN AT A DEPTH OF 6".



ALL SOIL SAMPLES, A THROUGH K, WERE TAKEN AT A DEPTH OF 6".



SIGNATURES		DATE	HILL CROSS ENGINEERING CO.	TITLE SAMPLING PL
DRAWN	J.L. Schmutz	11-18-91	543 56th ST. WEST NEW YORK N.J.	SCALE SHEET
ENGR'G			FLORASYNTH	INDEX DRAWING NUMBER

Figure 2. Photograph of Site West by N.West

Figure 3. Close up View West.

Figure 4. Removing culverts at West Location

Figure 5. South View of Site

Figure 6. East View of Site

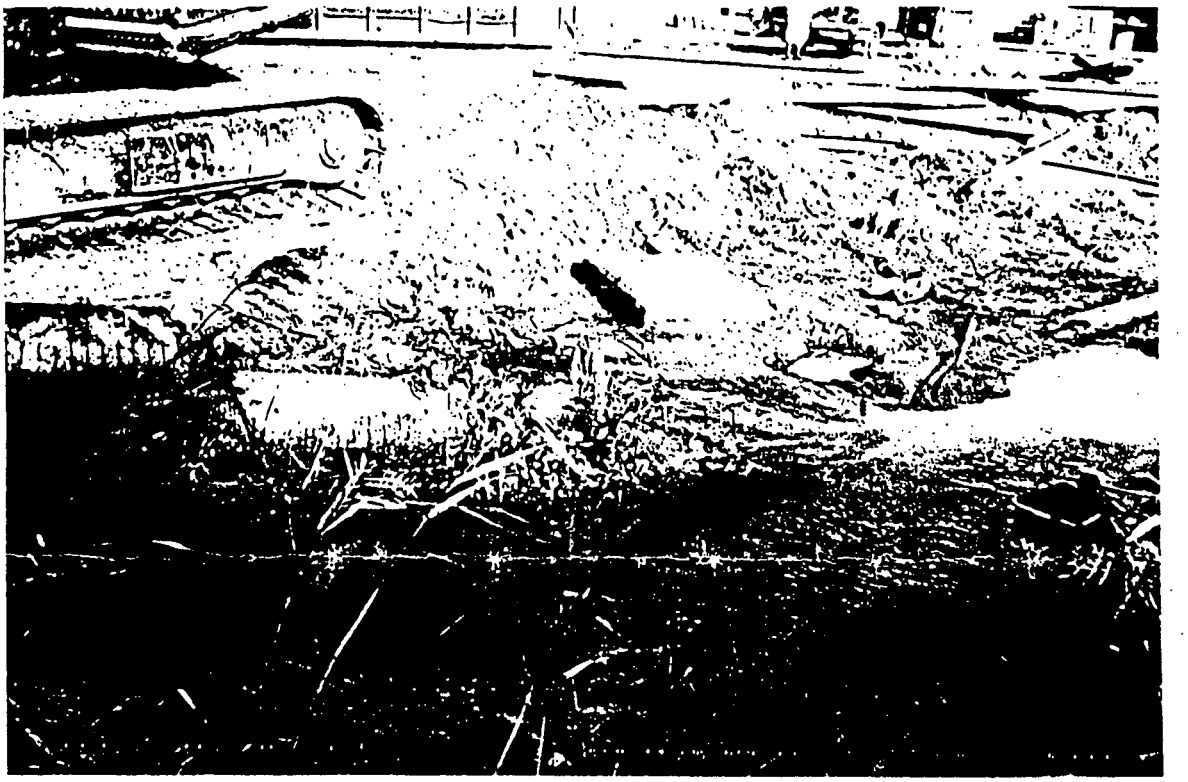
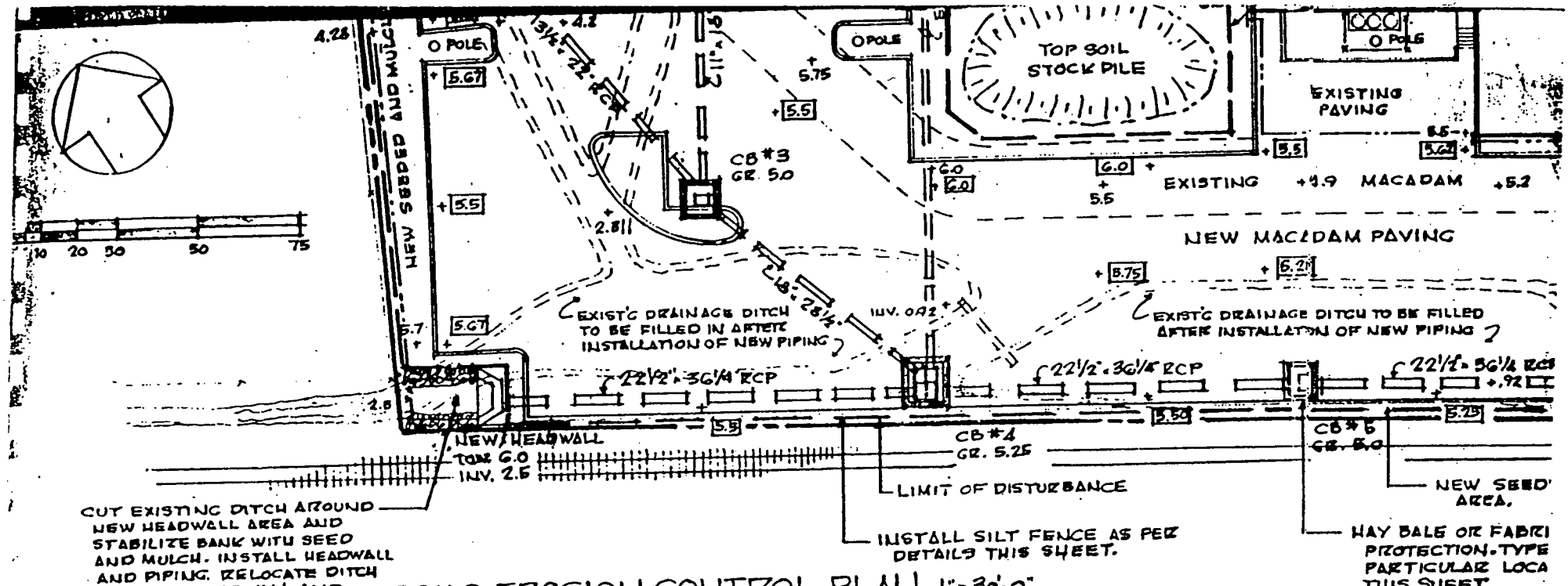


Figure 7. Close up View East Corner of Site



SOILS EROSION CONTROL PLAN 1" = 30'-0"

· LEGEND ·

+4.5 EXISTING SPOT ELEVATION

+4.5 NEW-SPOT ELEVATION

EXISTING - TO BE ALTERED, FILLED IN, ETC.

NEW DRAINAGE - SIZE AS SHOWN

Attachment 4

Preliminary Soil Testing Report, 10,000 gallon UST, 9/94

PRELIMINARY SOIL TESTING REPORT AT FLORASYNTH Co.Inc. 10,000 GALLON UNDERGROUND STORAGE TANK SITE

1994 SEPTEMBER

Prepared by:

Hill Cross Engineering
543 56th Street
West New York,N.J. 07093
NJDEP Id.No. 09951

1.0 Introduction

A 10,000 gallon Underground Storage Tank (UST) will be removed at Florasynth Co.Inc. 300 State Street, Teterboro (hereafter the " site") . Preliminary soil testing was performed to assess the environmental condition at the site. Contamination status, groundwater level and accessibility were verified. Six soil samples were collected and analyzed in accordance with N.J.A.C. 7:26E-3.6 to 3.9.

2.0 Site Description

The UST is located in back of the main building next to the boiler room. The tank situated 25 feet parallel with the main building wall. No visible sign of stain or discoloration of the soil could be seen in the surrounding area or the vicinity of the UST. The length of the feed line from the UST to the boiler room is 12 feet, partially under a concrete walkway, therefore No.6 sample represents a sample for the end of the UST and the feed and return piping.

3.0 TECHNICAL OVERVIEW

3.1 Scope of Work

In order to achieve the objectives set forth in the N.J.A.C. 7:26E, Hill Cross Engineering (HCE) implemented the following activities:

- Develop sampling plan
- Collect soil samples for analysis in accordance with N.J.A.C. 7:26E-3.9(2)
- Transfer soil samples to laboratory
- Evaluate test results

3.2 Program Methodology

All field sampling, analytical work and Quality Control/Quality Assurance (QA/QC) procedures were in accordance with the following regulations:

- NJDEPE Field Sampling Procedures Manual (1992)
- NJDEPE Remedial Investigation Guide (March 1990)
- N.J.A.C. 7:26 E - 4.1

The QA/QC measures, field blanks and chain of custody procedures outlined in the Field Sampling Procedures Manual were complied with. All of the analytical services on the project were done by:

Technion Research
250 Delawanna Avenue
Clifton, N.J. 07014
NJDEP ID # 07190

3.3 Data Presentation

To facilitate the review of the data generated during the soil sampling plan, analytical chemistry are summarized in Tables 1 and 2. The complete laboratory reports are presented in Appendix I. These tables are limited as follows:

- Total Petroleum Hydrocarbons (TPHC) EPA Method 418.1 (Modified)
- GC/MS Volatile Organics +15 (VO+15) EPA Method 624
- GC/MS Base Neutrals (BN+15) EPA Method 625

3.4 Soil Sampling Plan

The UST site was evaluated to identify any past or present discharges. Six soil borings around the tank was completed. The No.1 boring location one soil sample was taken zero to six inches above the saturation zone in agreement with N.J.A.C. 7:26E-3.9 (a) ii (5).

3.5 Soil Sampling Procedure

Sampling was conducted in accordance with NJDEPE Remedial Investigation Guide (March 1990, Page 25). The subject samples were obtained at total depth of 8'10"(Saturation zone 3'11") . The samples were analyzed as it was described in Section 3.2. Motor driven rotary drill was used to drill the soil to 7'10", then split spoon sampler was driven to 8'10" depth to obtain the soil samples. The soil samples were collected from the split spoon, using a stainless spatula. For the TPHC analysis, the soil samples were placed in a 200 ml glass container with a teflon lined cap and placed in an ice chest for storage. The samples for VO+15 and BN+15 and TPHC analysis were transferred in a 40 ml. VO vial. The storage of this samples were identical of the others. Before each sampling locality, the sampling device was cleaned in the following manner:

- Alconox wash
- Tap water
- Acetone rinse
- Air dry
- DIW rinse (Double rinse)

Each sample container was labeled with the following information:

- Date, time
- Location of the sample
- Required analytical parameters
- Sampler's Name

The required data was entered in the Chain of Custody documentation and signed by the person who performed the sampling. All analytical work was accomplished by:

Technion Research
250 Delawanna Avenue
Clifton, N.J. 07104
NJDEP ID # 07190

3.6 Quality Assurance/Quality Control (QA/QC)

All equipment were cleaned prior to sampling. The auger and split spoon were rinsed in a non-phosphate detergent and subsequent tap and de-ionized water rinses. The sampling vials were pre-cleaned in the laboratory, according to NJDEP Field Procedures Manual for Data Acquisition. After the cleaning procedure, the bottles were wrapped in aluminum foil.

Both handling and holding time were in accordance with the parameters set forth by the NJDEPE in the CLP methodology. The Field Blank was obtained using two sets of laboratory-cleaned container. One set was empty and served as the sample container to be analyzed. The second set of container was filled with de-ionized water. This water was originated from the same source as the trip blank. At the field location analyte free water is passed through the cleaned sampling equipment, and collected in the empty set of container for analysis. The handling of the Field Blank and Soil Sampling were identical.

4.0 FINDINGS

The results can be seen on Table 2 indicating that the parameters analyzed and listed on Tables 1 and 2 are below the typical ISRA (ECRA) action levels.

5.0 CONCLUSION

The site known as 300 North Street, Teterboro NJ UST location is considered free of contamination in accordance with the following statutes:

N.J.S.A. 13:1 K - 6 et. seq.
N.J.A.C. 7:26 E - 4.1 through 4.9.

6.0 CERTIFICATION

I certify under penalty of law, that the information provided in this document is true, accurate and complete, and was obtained by procedures in accordance with :

N.J.D.E.P. Remedial Investigation Guide (March 1990)
N.J.A.C. 7:26E Technical Requirements for Site Remediation
Scope of Work . NJDEP 1990

I am aware that there are significant civil and criminal penalties submitting false, inaccurate or incomplete information, including fine and/or imprisonment.

MICHAEL N. BANHIDI Ph. D.
Registered Environmental Professional
Registration No. 2598

10-21-94
Date

TABLES

TABLE 1

TEST RESULTS FOR TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 418.1

Lab Id.	Sample Id	Results	Blank	MDL
1017-1	#1/A Sat.Zone	8.22	<0.03	0.03
1017-2	#1 8'-10"	2.40	<0.03	0.03
1017-3	#1 8'-10"	2.50	<0.03	0.03
1017-4	#1 8'-10"	5.80	<0.03	0.03
1017-5	#1 8'-10"	6.80	<0.03	0.03
1017-6	#1 8'-10"	2.20	<0.03	0.03
1017-7	#1 8'-10"	3.40	<0.03	0.03
1017-8	Field Blank	0.02	<0.03	0.03

Test results are in mg/kg (PPM), unless specified
MDL: Minimum Detection Limit

TABLE 2

TEST RESULTS FOR VOLATILE ORGANICS
EPA METHOD 624/8260

No significant peak was found analyzing 43 compounds listed in Appendix 1. (Volatile Organics Analysis Data Report)

APPENDIX

TECHNION, INC.
250 Delawanna Avenue
Clifton, New Jersey 07014

NJDEPE No.: - 16190
NYDOH No.: - 11378

CLIENT: Hill Cross Engineering
LAB ID: 94:1017
PROJECT: Flora Synth

DATE SAMPLED: 09/06/94
DATE ANALYZED: 09/08-09/94
MATRIX: Soil

TEST RESULTS FOR TOTAL PETROLEUM HYDROCARBONS
(EPA Method 418.1)

Lab ID	Sample ID	Results	Blank	MDL
1017-1	#1/A SAT.Zone	8.22	<0.03	0.03
1017-2	#1 8'-10'	2.40	<0.03	0.03
1017-3	#2 8'-10'	2.50	<0.03	0.03
1017-4	#3 8'-10'	5.80	<0.03	0.03
1017-5	#4 8'-10'	6.80	<0.03	0.03
1017-6	#5 8'-10'	2.20	<0.03	0.03
1017-7	#6 8'-10'	3.40	<0.03	0.03
1017-8	Field Blank	0.02	<0.03	0.03

Test results are in mg/kg (ppm), unless specified.

MDL: Minimum Detection Limit

SUP-14-94 WED 16:16 TECHNION INC

TECHNION LABORATORIES, INC
NJDEPE CERTIFIED LAB. ID #16190
VOLATILE ORGANICS ANALYSIS DATA REPORT

Client name: HILL CROSS
Sample ID : #1A 3'-5'
Lab sample ID : 1017-1
Date received : 09/09/94
Dilution factor: 1.0

Sample Matrix : SOIL
Lab file ID : >A2905
Date/Time Analysis: 09/14/94 18:07
EPA Method : EPA 624/8260

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
67-64-1	Acetone	10 U		78-87-5	1,2-Dichloropropane	10 U	
71-43-2	Benzene	10 U		10061-02-6	trans-1,3-Dichloropropene	10 U	
75-27-4	Bromodichloromethane	10 U		10061-01-5	cis-1,3-Dichloropropene	10 U	
75-25-2	Bromoform	10 U		100-41-4	Ethylbenzene	10 U	
74-83-9	Bromomethane	10 U		591-78-6	2-Hexanone	10 U	
78-93-3	2-Butanone	10 U		1634-04-4	Methyl t-butyl ether	10 U	
75-15-0	Carbon Disulfide	10 U		108-10-1	4-Methyl-2-pentanone	10 U	
56-23-5	Carbon Tetrachloride	10 U		75-09-2	Methylene Chloride	10 U	
108-90-7	Chlorobenzene	10 U		100-42-5	Styrene	10 U	
75-00-3	Chloroethane	10 U		75-65-0	T-butyl alcohol	10 U	
110-75-8	2-Chloroethylvinylether	10 U		79-34-5	1,1,2,2-Tetrachloroethane	10 U	
67-66-3	Chloroform	10 U		127-18-4	Tetrachloroethene	10 U	
74-87-3	Chloromethane	10 U		108-88-3	Toluene	10 U	
124-48-1	Dibromochloromethane	10 U		71-55-6	1,1,1-Trichloroethane	10 U	
541-73-1	1,3-Dichlorobenzene	10 U		79-00-5	1,1,2-Trichloroethane	10 U	
106-46-7	1,4-Dichlorobenzene	10 U		79-01-6	Trichloroethene	10 U	
95-50-1	1,2-Dichlorobenzene	10 U		75-69-4	Trichlorofluoromethane	10 U	
75-34-3	1,1-Dichloroethane	10 U		108054	Vinyl Acetate	10 U	
107-06-2	1,2-Dichloroethane	10 U		75-01-4	Vinyl Chloride	10 U	
156-60-5	trans-1,2-Dichloroethene	10 U		1330-20-7	m,o,p-Xylene (total)	10 U	
156-59-2	cis-1,2-Dichloroethene	10 U		95-47-6	o-Xylene	10 U	
75-35-4	1,1-Dichloroethene	10 U					

(U) Indicates compound was analyzed for but not detected. Report the method detection limit for the sample with the U based on necessary concentration/dilution action. The footnote should read U - compound was analyzed for but not dete number is the minimum attainable detection limit for the sample.

(J) Indicates an estimated value. This flag is used when the mass spectral and retention time data indicate the prese compound that meets the volatile and semivolatile GC/MS identification criteria, and the results is less than the m attainable detection limit but greater than zero.

(B) This flag is used when the analyte is found in the associated blank as well as in the sample.

TECHNION LABORATORIES, INC
NJDEPE CERTIFIED LAB. ID #16190
VOLATILE ORGANICS ANALYSIS DATA REPORT

Client name: HILL CROSS
Sample ID : #4 8'-10'
Lab sample ID : 1017-5
Date received : 09/09/94
Dilution factor: 1.0

Sample Matrix : SOIL
Lab file ID : >A2906
Date/Time Analysis: 09/14/94 18:42
EPA Method : EPA 624/8260

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
67-64-1	Acetone	10	U	78-87-5	1,2-Dichloropropane	10	U
71-43-2	Benzene	10	U	10061-02-6	trans-1,3-Dichloropropene	10	U
75-27-4	Bromodichloromethane	10	U	10061-01-5	cis-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U	100-41-4	Ethylbenzene	10	U
74-83-9	Bromomethane	10	U	591-78-6	2-Hexanone	10	U
78-93-3	2-Butanone	10	U	1634-04-4	Methyl t-butyl ether	10	U
75-15-0	Carbon Disulfide	10	U	108-10-1	4-Methyl-2-pentanone	10	U
56-23-5	Carbon Tetrachloride	10	U	75-09-2	Methylene Chloride	10	U
108-90-7	Chlorobenzene	10	U	100-42-5	Styrene	10	U
75-00-3	Chloroethane	10	U	75-65-0	T-butyl alcohol	10	U
110-75-8	2-Chloroethylvinylether	10	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
67-66-3	Chloroform	10	U	127-18-4	Tetrachloroethene	10	U
74-87-3	Chloromethane	10	U	108-88-3	Toluene	10	U
124-48-1	Dibromochloromethane	10	U	71-55-6	1,1,1-Trichloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U	79-00-5	1,1,2-Trichloroethane	10	U
106-46-7	1,4-Dichlorobenzene	10	U	79-01-6	Trichloroethene	10	U
95-50-1	1,2-Dichlorobenzene	10	U	75-69-4	Trichlorofluoromethane	10	U
75-34-3	1,1-Dichloroethane	10	U	108054	Vinyl Acetate	50	U
107-06-2	1,2-Dichloroethane	10	U	75-01-4	Vinyl Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U	1330-20-7	m,o,p-Xylene(total)	10	U
156-59-2	cis-1,2-Dichloroethene	10	U	95-47-6	o-Xylene	10	U
75-35-4	1,1-Dichloroethene	10	U				

(U) Indicates compound was analyzed for but not detected. Report the method detection limit for the sample with the U (e.g. 10 U) based on necessary concentration/dilution action. The footnote should read U - compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

(J) Indicates an estimated value. This flag is used when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the results is less than the minimum attainable detection limit but greater than zero.

(B) This flag is used when the analyte is found in the associated blank as well as in the sample.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: TECHNION LABS, INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 1017-5

Sample wt/vol: 5.7 (g/mL) G Lab File ID: >A2906

Level: (low/med) LOW Date Received: 09/09/94

% Moisture: not dec. 12 Date Analyzed: 09/14/94

GC Column: RTX-624.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg)ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

CLIENT SAMPLE ID.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Contract: _____

Lab Name: TECHNICAL LABS, INC. SAS No.: _____ SDG No.: _____

Lab Code: _____ Case No.: _____ Lab Sample ID: 1017-1

Matrix: (soil/water) SOIL Lab File ID: >A2905

Sample wt/vol: 5.0 (g/mL) G Date Received: 09/09/94

Level: (low/med) LOW Date Analyzed: 09/14/94

% Moisture: not dec. 12 Dilution Factor: 1.0

GC Column: RTX502.2 ID: 0.53 (mm) Soil Aliquot Volume: _____(uL)

Soil Extract Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

3/90

FORM I VOA-TIC

Florasynth
300 North ST
288-5066

TECHNION, INC.
Testing and Research Laboratory
250 Delawanna Avenue
Clifton, New Jersey 07014
Tel: (201) 773-5013
Fax: (201) 773-4788

CHAIN OF CUSTODY

LAB I.D. # 1017

Co. Name/Address:

Proj. Mgr. MICHAEL N. BANHIDI
Proj. Description FLORASYNTH
Sampler (Signature): [signature]

CHECK REPORT TYPE REQUIRED
- EPA TIER I (CLP)
- EPA TIER II (CLP)
- RESULTS ONLY III
- NJ ECRA II X
- NJ TIER 1b
- NY DOH
- OTHER
- DATE DUE

NO. OF SAMPLE CONTAINERS

Page 1 of 1

SAMPLE I.D.	DATE	TIME	SAMPLE DESCRIPTION	TPHC	VO+15	BN+15	REMARKS
BORING #1/A SAT. ZONE	9-6-94	9:30	SOIL	X			
BORING #1 8-10'		9:45		X			
BORING #2 8-10'		10:10		X			TWO SAMPLES WITH THE
BORING #3 8-10'		10:25		X			
BORING #4 8-10'		10:45		X			HIGHEST READING OF TPHC
BORING #5 8-10'		11:10		X			
BORING #6 8-10'		11:30		X			SHELL BE ANALYZED FOR
FIELD BLANK NA		11:30	LIQUID	X			
							BN+15 and VO+15

Relinquished by (Signature):	Date	Time	Received by (Signature):	Date	Time	Relinquished by (Signature):	Date	Time	Received by (Signature):	Date	Time
[signature]	9/6/94		[signature]	9/6/94	3:20						
Relinquished by (Signature):	Date	Time	Received by (Signature):	Date	Time						

REMARKS: TRANSPORTED AT 4° c? ☐YES ☐NO
SAMPLES IN GOOD CONDITION? ☐YES ☐NO

Attachment 4

Proposal to Remove 10,000 gallon UST, 10/21/94

Revision Nº: ___
Revision Date: _____

HCE HILL CROSS ENGINEERING COMPANY
543 - 56th Street, P.O. Box 60, West New York, NJ 07093

Telephone: (201) 864-3393 Fax (201) 864-5448

Florasynth Co.,Inc.
300 North Street
Teterboro, New Jersey 07608

October 21, 1994

VIA TELEFAX

Attn: Mr. William Calbo Plant Engineer.

Subject: Removal of 10,000 Gallon Underground Storage Tank (UST) at Florasynth Co.,Inc., 300 North Street Teterboro.

Dear Mr. Calbo:

We are pleased to present the attached proposal to Florasynth to remove a 10,000 gallon Underground Storage Tank (UST) at Florasynth, located at North Street in Teterboro. The technical portion of the proposal is attached. This includes the basis for the proposal, the proposed Scope of the Work, the cost estimate and schedule.

We are proposing to conduct this work on a reimbursable cost basis. Removal of UST is typically done on this basis due to the significant uncertainties associated with this type of work. We have provided an estimated cost for budgetary purposes. The estimate is based on no subsurface contamination being uncovered and being able to reuse the excavated soil. Dealing with any contamination found in the tank removal process is not within the scope of this proposal, and would be deal with as an addendum.

To authorize this work, please sign and return one copy of the proposal. The other is for your files.

We trust that this proposal meets your needs. If there is some element of the approach that you would like to modify, please get back to us. We are looking forward to working with you on this project.

Very truly yours,

Michael Banhidi, Ph.D.
Vice President
Registered Environmental Professional
Registration No. 2598

TECHNICAL PROPOSAL

FLORASYNTH Co.

TETERBORO, NEW JERSEY

UNDERGROUND TANK REMOVAL PROGRAM PROPOSAL

INTRODUCTION

Florasynth Co. has decided to remove the existing 10,000 gallon underground heating oil tank and restore the area with backfill. We understand from Florasynth that the age of the 10,000 gallon UST is less than 10 years old and registered with the NJDEP Bureau of Underground Storage Tanks.

Florasynth wish that the existing tank be cleaned, removed and disposed of and the area backfilled and restored to present site conditions. The removal of this tank, including the feed and return lines shall be accomplished in accordance with prevailing rules, regulations and guidelines of the New Jersey Department of Environmental Protection (NJDEP) Division of Water Resources, Bureau of Underground Storage Tanks and all other applicable Federal and local requirements.

Cleaning the existing underground tank will be conducted in accordance with the API Publication 2015 "Cleaning Petroleum Storage Tanks." Removal and disposal of used underground petroleum tanks will be conducted in accordance with the NJDEP Division of Hazardous Waste Management Remedial Investigation Guide (RIG).

Hill Cross Engineering Inc. (HCE) conducted a preliminary soil investigation in accordance with N.J.A.C. 7:26E-4.1. The obtained soil samples were analyzed (See attached Preliminary Soil Testing Report) and <u>all test result are indicating that the site is clean of petroleum products.</u>

SCOPE OF WORK

HEC proposes the following Scope of Work:

1. Obtain local permits prior to removal of tanks. Complete and submit the Standard Reporting Form (SRF) to the State 30 days prior to removal.
2. Notify local jurisdictional agencies prior to excavation.
3. Prepare technical specifications for removal, cleaning and disposal of underground tank.
4. Instruct the certified contractor to handle the earth moving tank cleaning and sludge removal, tank removal and soil sampling.-
5. Transport soil samples to the designated State Certified Laboratory and arrange a 48 hour turnaround with the results. If the results are within the allowed limits, arrange for backfill. If the soil is contaminated beyond the Federal limits, we inform Wragtime and conduct vertical and horizontal delineation to remediate the site. Florasynth will be advised of the estimated cost of remediation, when the contamination is defined.
6. Provide on-site technical overview to ensure that the removal is in compliance with the technical specifications and environmental regulations. Photographs will be taken for documentation.

7. Collect soil samples for each location in accordance with BUST Scope of Work and NJDEP RIG requirements. Have soil samples analyzed for TPHC, BTEX BN+15, as required by these regulations at an accredited laboratory.
8. Proceed with final backfilling and surface restoration upon notification that the soil is clean.
9. Provide the proper disposal of the tank and piping, tank cleaning material, and tank heels in approved and permitted facilities. Owner is responsible for emptying the tank. Disposal of any contaminated soil is beyond this Scope of Work. HEC is prepared to assist Florasynth in this removal and disposal, if required.
10. Prepare and issue final tank closure certification report including Discharge Investigation Corrective Action Report (DICAR).

The Scope of Work does not include:

Contaminated soil analysis
Vertical and horizontal delineation

COST ESTIMATE

Hill Cross Engineering Inc, proposes to perform the Scope of Work on a reimbursable basis. HCE will invoice for actual hours of professional services rendered, based on our billing rate of $75.00 per hour. For budgetary purposes, we estimate this work will cost $17,750. This total estimated cost is as follows:
a) An estimate of $4,625 for HCE's part of work as presented in the Scope of Work (including the professional services for the Preliminary Soil Testing). The cost also entail professional services of a NJ.Registered Professional Engineer (signature and seal).
b) The reimbursable expenses include approximately $3,100 for laboratory analysis of soil samples per NJDEP specifications {12 soil samples analyzed for: Total Petroleum Hydrocarbons (TPHC), Volatile Organics (VO+10), and five samples analyzed for Base Neutrals (BN+15)}
c) Removal , cleaning, disposal of tank and backfilling cavity, will be paid direct to contractor (See attached contract). Estimated cost: &6,800.
The cost includes the "initial" round of soil sampling. Any additional soil sampling and analysis required due to contamination is outside the scope of this proposal. Similarly, the cost of handling the "clean" soils excavated is included in the estimated cost. Disposal of any contaminated soils will be at additional expense to the owner. No cleanup cost of soils are included in the scope of work or estimated cost.

SCHEDULE

HCE estimates it will take approximately 40-45 days to complete the work as specified. This includes approximately one week in the field. It also covers the 30 days notification period requested by NJDEP. In most cases, this can be waived or significantly shortened upon reasonable request. An accelerated 25-30 days could be reasonable in this case. A final schedule does not include time for any remedial work required due to contaminated soil.

APPROVED:

NAME

PLANT ENGINEER
TITLE

1 / 9 / 95
DATE

October 21, 1994

Dr. Michael Banhidi
Registered Environmental Professional
Registration No. 2598

Attachment 4

UST Closure Plan Approval Application

UST-013 02/95

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF FIELD OPERATIONS
401 EAST STATE STREET
CN 028
TRENTON, NEW JERSEY 08625

UNDERGROUND STORAGE TANK CLOSURE PLAN APPROVAL APPLICATION

Pursuant to the Underground Storage of Hazardous Substances Act, N.J.A.C. 7:14B-9 et seq.and the Technical Requirements for Site Remediation, N.J.A.C. 7:26E et. seq.

This application form shall be used by all applicants planning to close Underground Storage Tank Systems pursuant to N.J.A.C. 7:14B-9 et seq.

INSTRUCTIONS

•Before completing this application please refer to the attached Application Instruction sheet.

• **Please print legibly or type.** Fill in all appropriate blanks. Incomplete applications will be returned without being processed. This application form requires that additional sheets be attached for some of the information requested. You may call 609/984-3156 for assistance.

• Return one original of this form (including attachments) to the address above. You must sign all forms as required and attach a check for the proper fee (see the fee schedule on Page 3).

• If the subject facility is not registered the Closure Plan will not be processed.

FACILITY REGISTRATION # 0228675

If this application is a resubmission due to a deficiency, enter assigned TMS #_____

Is this facility currently subject to ISRA? YES___ NO __x If YES enter ISRA case # _____

Is this submittal in response to a discharge? YES ___ NO _x_ If YES enter Incident # _____

I. FACILITY INFORMATION

A. FACILITY NAME FLORASYNTH INC.

FACILITY STREET ADDRESS 300 North Street

MUNICIPALITY Teterboro County Bergen

TELEPHONE NUMBER (201) 288-5066

B. OWNER'S NAME Florasynth, Inc. (JACK FRIEDMAN)

OWNER'S MAILING ADDRESS 300 North Street

CITY Teterboro STATE New Jersey ZIP 07608

If facility is not registered, enter date registration questionnaire was submitted N/A

II. CHECK PROPOSED ACTIVITY

x 1. Closure of Underground Storage Tank System

If UST system is to be closed, refer to Section III of this application for submittal requirements.

NOTE: Within 90 days of the closure or 120 days of the date a discharge has been detected, a site investigation or a remedial action report must be submitted to the Department. A $500 fee for review of the site investigation report or $1,000 for a remedial investigation report is due when the appropriate report is submitted.

_____ 2. Temporary Closure

Indicate which situation applies and attach appropriate documentation.

a. _____ Requesting temporary closure for 12 months or less subject to requirements of N.J.A.C. 7:14B-9.1(a).

b. _____ Requesting an extension of temporary closure for more than 12 months per N.J.A.C. 7:14B-9.1(b). A Site investigation must be performed in accordance with N.J.A.C. 7:26E and results submitted to the Department.

NOTE: A completed UST Facility Questionnaire form must be submitted to the Bureau of Applicability and Compliance, Registration and Billing Section, indicating temporary closure of the tank(s). NO fee is required for temporary closure. A $500 fee for review of the site investigation report or $1,000 fee for a remedial investigation report is due when the appropriate report is submitted.

_____ 3. Change in Service

Attach documentation that the tank system being changed from the storage of a regulated to a non-regulated substance has been emptied and cleaned and that a site investigation has been performed, as required by N.J.A.C. 7:14B-9.1(e) and N.J.A.C. 7:26E-3.9(a)3. (A site investigation is not required when one regulated substance is replaced by another regulated substance.) Additionally, a completed Facility Questionnaire form indicating a change in service must be submitted to the Bureau of Applicability and Compliance, Registration and Billing Section.

III. UST REMOVAL OR ABANDONMENT

A. Complete the following information concerning UST system to be removed or abandoned. Attach additional pages if necessary.

Number of Tanks	Length of appurtenant piping (ft)	Tank Capacity (gallons)	SUBSTANCE Stored*	Closure Type (circle one)
1	29	10,000	#2 Fuel	REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT

*** if material is not a petroleum product, use chemical name and CAS number to identify tank's content. (Brand or trade names are unacceptable.)**

B. SITE INVESTIGATION / REMEDIAL INVESTIGATION PLAN

Attach the following information for UST closure, as required by N.J.A.C. 7:14B-9.2 or 9.2(b):

a. Implementation schedule;
b. A **scaled** site map clearly identifying the UST system location(s) scheduled for closure; and
c. Attach all justification for any abandonments-in-place proposed for tanks and/or piping as required by N.J.A.C 7:14B-9.1(d). Attach the certification statement (on the back page) for abandonment-in-place.

Check Correct Response:

x Site Investigation / Remedial Investigation will be performed in accordance with N.J.A.C. 7:26E, the Technical Requirements for Site Remediation.

___ A variance from N.J.A.C. 7:26E is being requested. In accordance with N.J.A.C. 7:26E-1.6(d), an alternate plan is attached for review.

C. DECOMMISSIONING PLAN (Circle correct response)

YES NO Will the UST decommissioning conform with N.J.A.C. 7:26E-6.3(b); the New Jersey Uniform Construction Code (N.J.A.C. 5:23) and the current American Petroleum Institute's guidance? (If NO is circled, please explain reason on an attached page.)

D. CERTIFICATIONS REQUIRED BY N.J.S.A 58:10A-24

Indicate below name and firm performing UST service:

1. FOR UST CLOSURE (PHYSICAL REMOVAL OR ABANDONMENT) ACTIVITIES.

Name of Individual Joseph Salomone CERTIFICATION # 60001095

Name of Certified Firm Salomone Bros. Inc. CERTIFICATION # 1600049

2. FOR SUBSURFACE (SITE INVESTIGATION, CORRECTIVE ACTION ETC.) ACTIVITIES.

Name of Individual Joseph Salomone CERTIFICATION # 60001095

Name of Certified Firm Salomone Bros. Inc. CERTIFICATION # 1600049

NOTE: The UNDERGROUND STORAGE TANK SERVICES CERTIFICATION ACT, N.J.S.A. 58:10A-24.1 et seq., requires that any services performed on an UST system for the purposes of complying with P.L.1986, c.102 must be performed by, or under the immediate on-site supervision of, a person certified by the Department for that service. The certified person providing that service must be employed by a business that is also certified by the Department for that service.

E. COMMENTS

IV. FEE SCHEDULE

Check the activities below that apply, enter the appropriate fee and submit that amount with this application. Make checks payable to Treasurer, State of New Jersey.

1. UST Permanent Closure (tanks and/or piping - fee encompasses all removal or abandonment activities listed in this application)	$300.00	= _____
2. Change in service from a regulated substance to a non-regulated substance	$300.000	= _____
3. Change in service from one regulated substance to another regulated substance.	NO FEE	
4. Temporary closure or extension of temporary closure request	NO FEE	

V. APPLICATION REVIEW AND ISSUANCE OF CLOSURE APPROVAL

The Department will review the closure plan for completeness and appropriateness as specified in Subchapter 9 of the UST regulations and the Technical Requirements of Site Remediation, N.J.A.C. 7:26E. Plan approval will indicate that the owner or operator may proceed with the closure. All appropriate and applicable permits, licenses and certificates required for any of the above activities issued by any local, state and/or federal agencies must be obtained separately from this application.

VI. MAILING ADDRESS AND SIGNATURE

List the person and the address the closure approval should be mailed to:

Name William Calbo, Plant Manager

Company Florasynth, Inc.

Address 300 North Street

City Teterboro State N.J. ZIP

PHONE NUMBER (201) 288-5066

SIGNATURE OF CONTACT PERSON

This application form must be signed by a contact person of the owner or operator of the subject facility. The contact person should have overall knowledge of tank decommissioning procedures and the site assessment requirements applicable to the tank closure which is the subject of this application.

NAME (print or type) William Calbo SIGNATURE William Calbo

TITLE Plant Manager DATE 4/6/95

PHONE NUMBER (201) 288-3200

CERTIFICATE FOR ABANDONMENT-IN-PLACE

(N.J.A.C. 7:14B-9.1(d))

This certification shall be signed and sealed by a New Jersey Professional Engineer whenever the owner or operator intends to abandon any tank(s) in place. The certification is not necessary if the tank is located under a permanent structure.

"I certify under penalty of law that the information provided in this document is true, accurate, and complete and is in conformance with the requirements of this subchapter. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment."

Brief explanation of the reason for abandonment: _____

N/A

NAME (Print or Type) _____ **SIGNATURE** _____

TITLE _____ **DATE** _____

N.J. LICENSE NO. _____ **P.E. SEAL:**

04/03/95 09:48 TX/RX NO.1100 P.007

ATTACHMENT 5

AIR POLLUTION CONTROL PERMITS

Attachment 5

Air Pollution Control Perimts

(Please note that Certificate Number 095372 issued for operation of the High Pressure Fulton has been re-applied for by Florasynth, Inc. and will be forwarded to the NJDEP upon its issuance.)

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 095372

APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment HIGH PRESSURE FULTON
N.J. Stack No. 009 No. of Stacks 001 No. of Sources 01
Approval 03/13/90 Effective 03/13/90 Expiration 03/13/95

CERTIFICATE TO OPERATE CONTROL APPARATUS/EQUIPMENT (EXPIRATION NOTICE)

TO RENEW THIS CERTIFICATE, REFER TO THE OTHER SIDE FOR THE CATEGORY DESCRIPTIONS TO DETERMINE THE CATEGORY OF EQUIPMENT COVERED BY THIS CERTIFICATE. IF BOTH CATEGORIES ARE COVERED, THE CATEGORY II FEE APPLIES. MARK THE APPROPRIATE BOX AND SUBMIT THE YELLOW COPY (SIGNED AND DATED) ALONG WITH THE ENCLOSED PAYMENT CARD AND FEE (CERTIFIED CHECK OR MONEY ORDER) PAYABLE TO TREASURER, STATE OF NEW JERSEY, AT LEAST 90 DAYS BEFORE EXPIRATION. MAIL TO: N.J.D.E.P. -BUREAU OF REVENUE
CN 402, TRENTON, NJ 08625

IF YOU FAIL TO PAY A FEE, PURSUANT TO N.J.A.C. 7:27A-3.8 YOU MAY BE ASSESSED DAILY CIVIL ADMINISTRATIVE PENALTIES IN AN AMOUNT EQUAL TO THE UNPAID FEE TO A MAXIMUM OF $10,000(1ST OFFENSE), TWO TIMES THE UNPAID FEE TO A MAXIMUM OF $25,000(2ND OFFENSE) AND THREE TIMES THE UNPAID FEE TO A MAXIMUM OF $50,000(3RD & SUBSEQUENT OFFENSES). ALSO, PURSUANT TO N.J.A.C. 7:27-8.10(A)6, YOUR CERTIFICATE MAY BE REVOKED IF YOU FAIL TO PAY A FEE. PURSUANT TO N.J.A.C. 7:27A-3, YOU MAY ALSO BE ASSESSED DAILY CIVIL ADMINISTRATIVE PENALTIES IF YOU OPERATE THE EQUIPMENT BEYOND THE EXPIRATION DATE WITHOUT OBTAINING A RENEWAL. TO TERMINATE THIS CERTIFICATE, MARK THE APPROPRIATE BOX AND RETURN THE YELLOW COPY(SIGNED AND DATED). KEEP THE WHITE COPY FOR YOUR RECORDS.

[✓] CATEGORY I EQUIPMENT
$250 FEE ENCLOSED

[ ] CATEGORY II EQUIPMENT
$500 FEE ENCLOSED

[ ] TERMINATE CERTIFICATE (SEE OTHER SIDE FOR EMISSIONS BANKING)

SIGNATURE Allen S. Hobson TITLE Director of Safety DATE 9/16/94

TRANS.|N| ACT.TYPE|R|E|N| TIME UNITS|0|0|0|3| TR.NO.|_|_|_|_|_|

FEE|_|_|_|_| ACT.DATE|_|_|_|_|_|_| PERS.CODE|9|9|9| NOT.LETTER|_|_|

Maria Salamandra

Approved by: _____

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 109101 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment #001
N.J. Stack No. 010 No. of Stacks 001 No. of Sources 01
Approval 09/25/92 Effective 09/25/92 Expiration 12/13/99

#-CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT-#

#-FIVE YEAR-#

THIS FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU OF THE OBLIGATION TO COMPLY WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

THE EQUIPMENT COVERED BY THIS CERTIFICATE MAY BE SUBJECT TO AT LEAST ONE PERIODIC COMPLIANCE INSPECTION, PURSUANT TO N.J.A.C. 7:27-8.8(C). YOU WILL BE NOTIFIED BY LETTER WITHIN 60 DAYS OF THE EFFECTIVE DATE OF THIS DOCUMENT OF THE MAXIMUM NUMBER OF THESE INSPECTIONS (IF GREATER THAN ONE). PURSUANT TO N.J.A.C. 7:27-8.11, YOU WILL BE INVOICED FOR A $200 FEE AFTER EACH PERIODIC INSPECTION THAT IS CONDUCTED. YOU MAY ALSO BE SUBJECT TO FEES FOR SERVICES THAT ARE PERFORMED BY THE DEPARTMENT IN ACCORDANCE WITH THE CONDITIONS OF APPROVAL OF THIS DOCUMENT. IF YOU FAIL TO PAY A FEE, THE DEPARTMENT MAY ASSESS CIVIL ADMINISTRATIVE PENALTIES AND/OR REVOKE THIS CERTIFICATE.

PURSUANT TO N.J.A.C.7:27-8.7(F), THE DEPARTMENT MAY MODIFY THE CONDITIONS OF APPROVAL OF THIS CERTIFICATE AT THE TIME OF RENEWAL OR AT ANY TIME WHEN THE CERTIFICATE IS IN FORCE, IF DEEMED NECESSARY TO PROTECT HUMAN HEALTH, WELFARE OR THE ENVIRONMENT.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION FROM TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW (SEE OTHER SIDE).

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), YOU SHALL MAKE THIS CERTIFICATE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

Approved by: Donald Patterson

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 109102 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment #003
N.J. Stack No. 011 No. of Stacks 001 No. of Sources 01
Approval 09/25/92 Effective 09/25/92 Expiration 12/13/99

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

FIVE YEAR

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IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), YOU SHALL MAKE THIS CERTIFICATE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

Approved by: _____

Form VEM-017

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 109103 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment #002
N.J. Stack No. 012 No. of Stacks 001 No. of Sources 01
Approval 09/25/92 Effective 09/25/92 Expiration 12/13/99

#-CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT #-

#-FIVE YEAR #-

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IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), YOU SHALL MAKE THIS CERTIFICATE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

Approved by: _____

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 107255 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment BUTTER REACTOR (300 GAL)
N.J. Stack No. 005 No. of Stacks 002 No. of Sources 01
Approval 06/16/92 Effective 06/16/92 Expiration 12/02/99

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

FIVE YEAR

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Approved by: _____

Form VEM-C17

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 087922 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment 0160-GALLON STILL
N.J. Stack No. 006 No. of Stacks 001 No. of Sources 01
Approval 12/08/88 Effective 12/08/88 Expiration 12/02/99

*** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ***

*** FIVE YEAR RENEWAL ***

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Approved by: Donald Patterson

Form VEM-917

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 087923 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment 1000-GALLON STILL
N.J. Stack No. 007 No. of Stacks 001 No. of Sources 01
Approval 12/08/88 Effective 12/08/88 Expiration 12/02/99

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Approved by: Donald Patterson

Form VEM-017

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 083597 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment FRAGRANCE TANK
N.J. Stack No. 002 No. of Stacks 001 No. of Sources 01
Approval 04/15/88 Effective 04/15/88 Expiration 01/05/00

*** CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT ***

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Approved by: Randy Patterson

Form VEM-017

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 083598 APC PLANT ID 00727

(Mailing Address)

FLORASYNTH, INC.
300 NORTH ST.
TETERBORO NJ 07608

(Plant Location)

300 NORTH ST.
TETERBORO

Applicant's Designation of Equipment FLAVORS TANK
N.J. Stack No. 003 No. of Stacks 001 No. of Sources 01
Approval 04/15/88 Effective 04/15/88 Expiration 01/05/00

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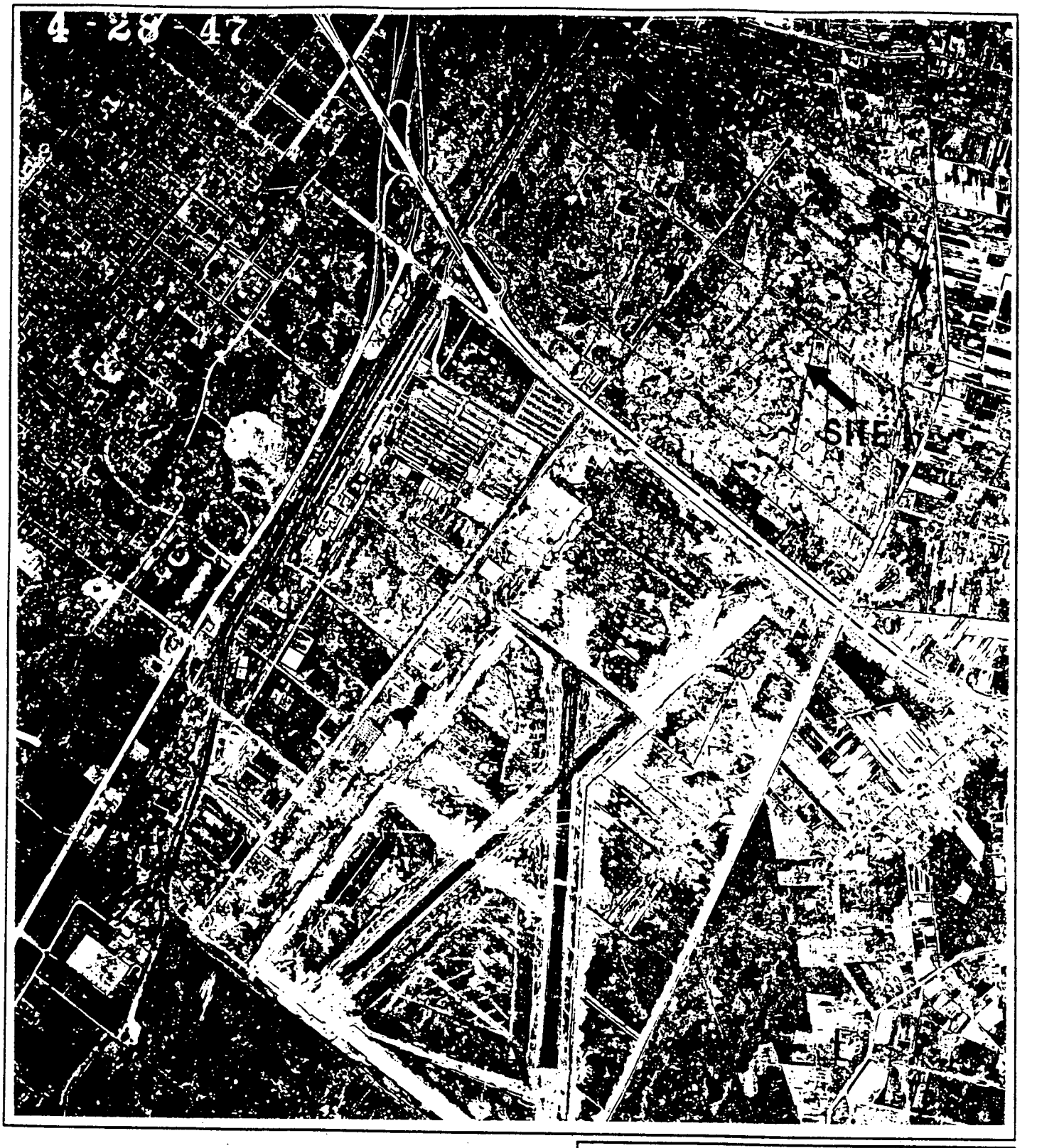
Approved by: Donald Patterson

ATTACHMENT 6

AERIAL PHOTOGRAPHS

Revision Nº: ___
Revision Date: _____



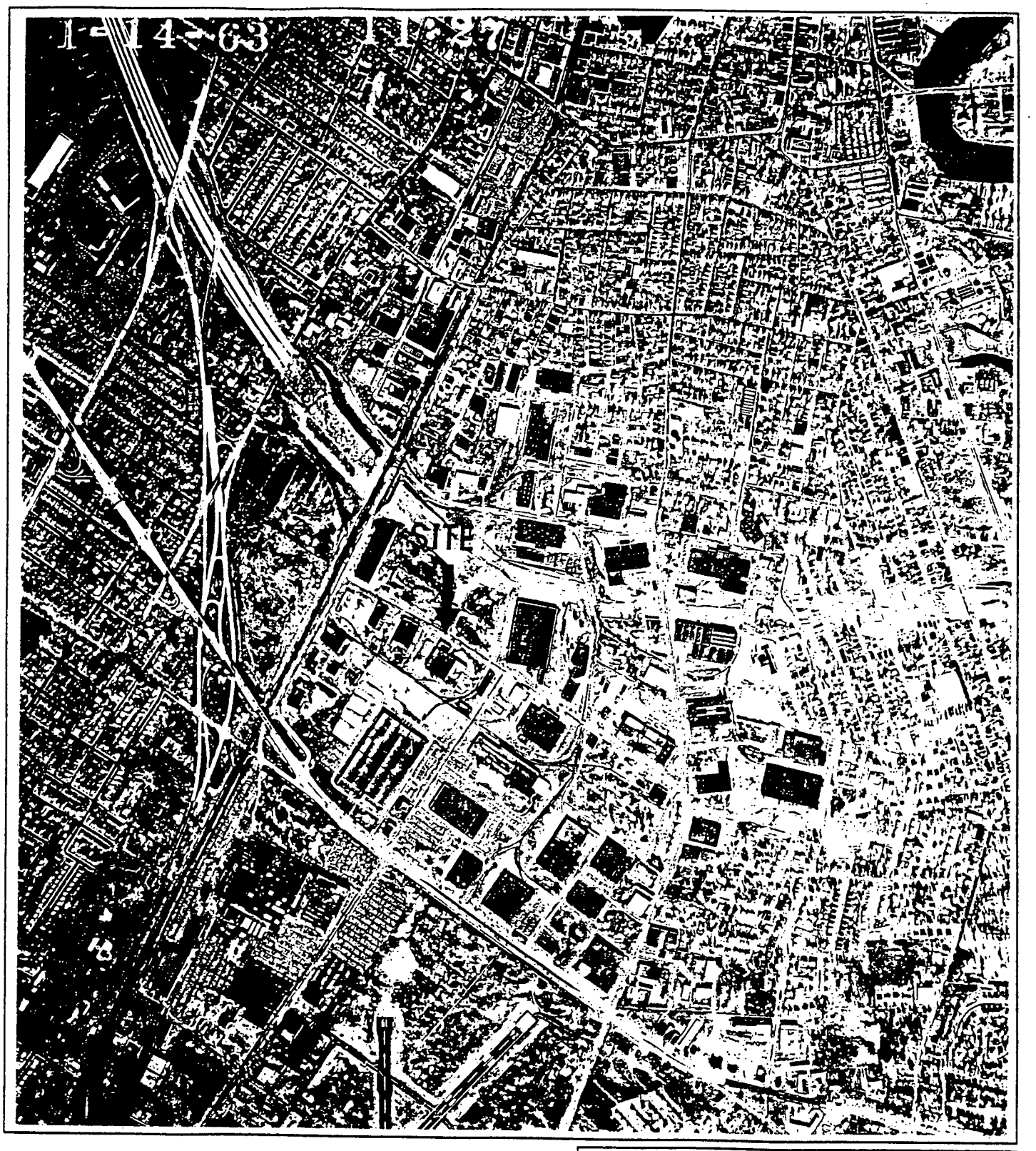
AERIAL PHOTO – 4/28/1947

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: J.R.F.	CHK'D: J.C.
SCALE: AS SHOWN	DATE: 03/28/95

DWG: 32000102 03/28/95



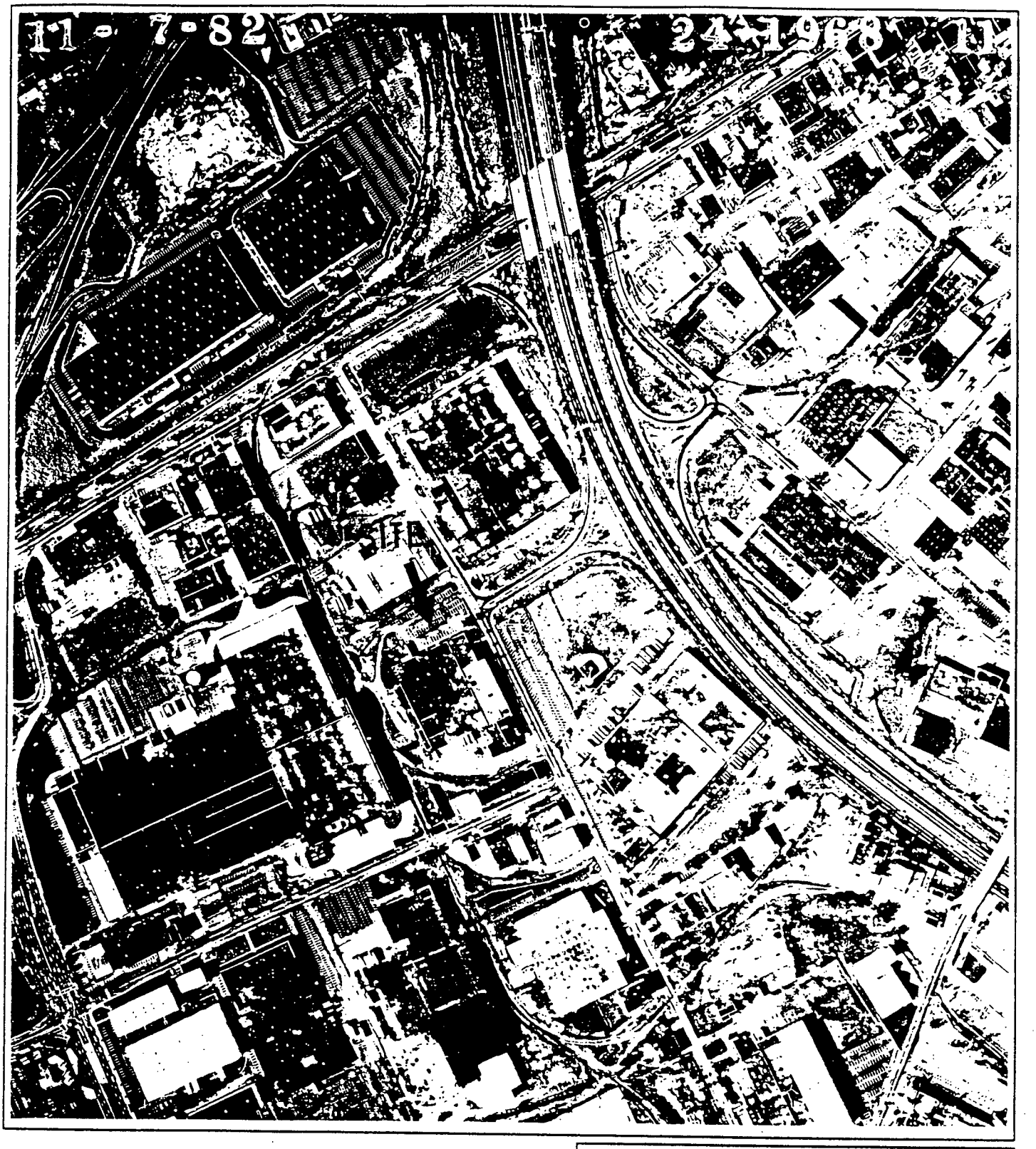
AERIAL PHOTO - 1/14/1963

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: J.R.F	CHK'D: J.C.
SCALE: AS SHOWN	DATE: 03/28/95

DWG: 32000102 03/28/95



AERIAL PHOTO - 11/7/1982

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRAWN: J.R.F.	CHK'D: J.C.
SCALE: AS SHOWN	DATE: 03/28/95

DWG: 3[illegible]0102 03/28/95

AERIAL PHOTO – 11/2/1993

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: J.R.F.	CHK'D: J.C.
SCALE: AS SHOWN	DATE: 03/28/95

DWG: 32000102 03/28/95

ATTACHMENT 7

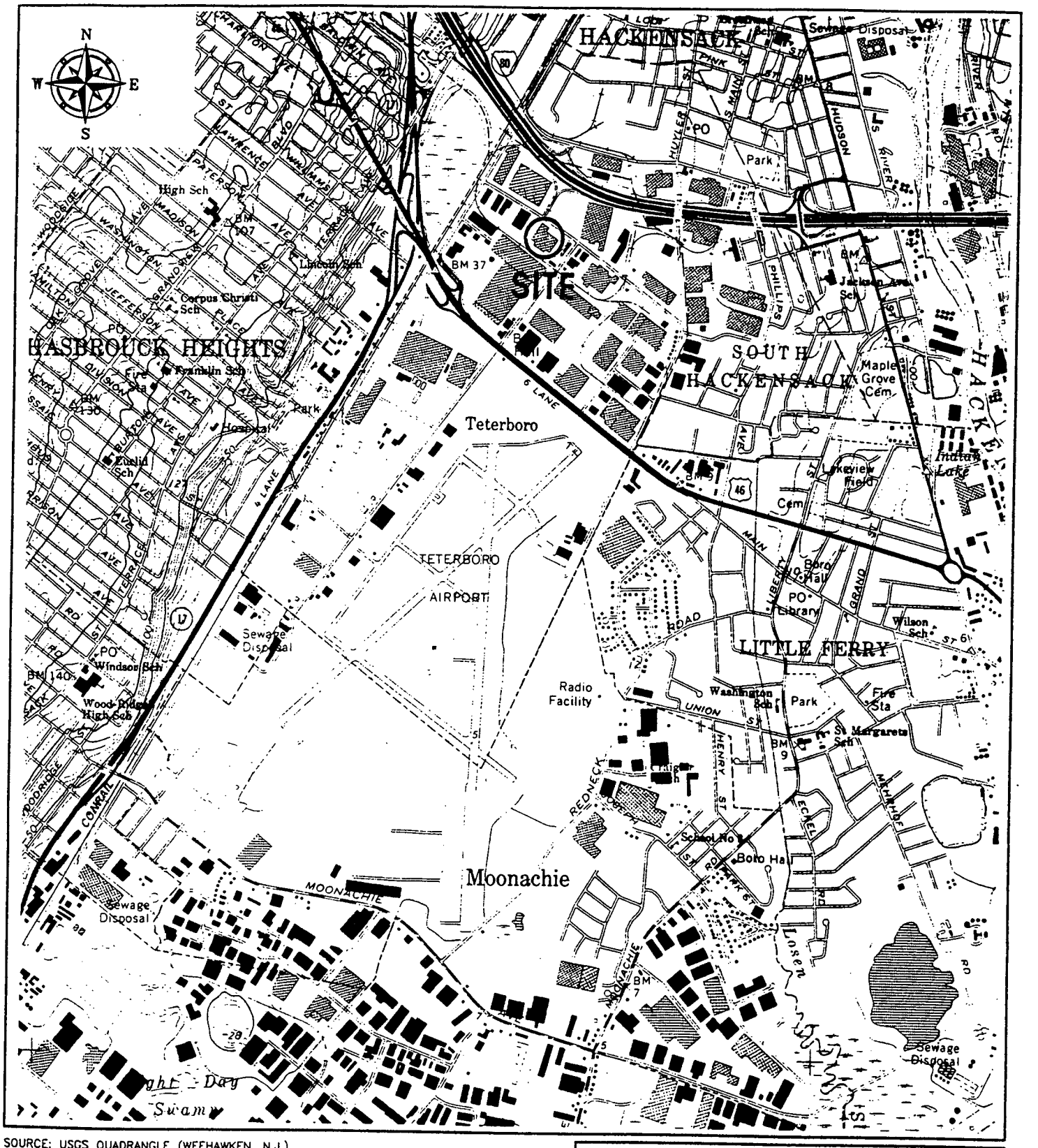
SITE PLAN

Revision Nº: ___
Revision Date: _____

ATTACHMENT 8

USGS SITE LOCATION MAP

Revision Nº: __
Revision Date: _____



SOURCE: USGS QUADRANGLE (WEEHAWKEN, N.J.)

SITE LOCATION MAP

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

McLaren Hart® ENVIRONMENTAL ENGINEERING CORPORATION

DRWN: J.R.F.	CHK'D: J.C.
SCALE: AS SHOWN	DATE: 03/28/95

QUADRANGLE LOCATION

SCALE: 1" = 2000'

DWG: 32000101 03/28/95

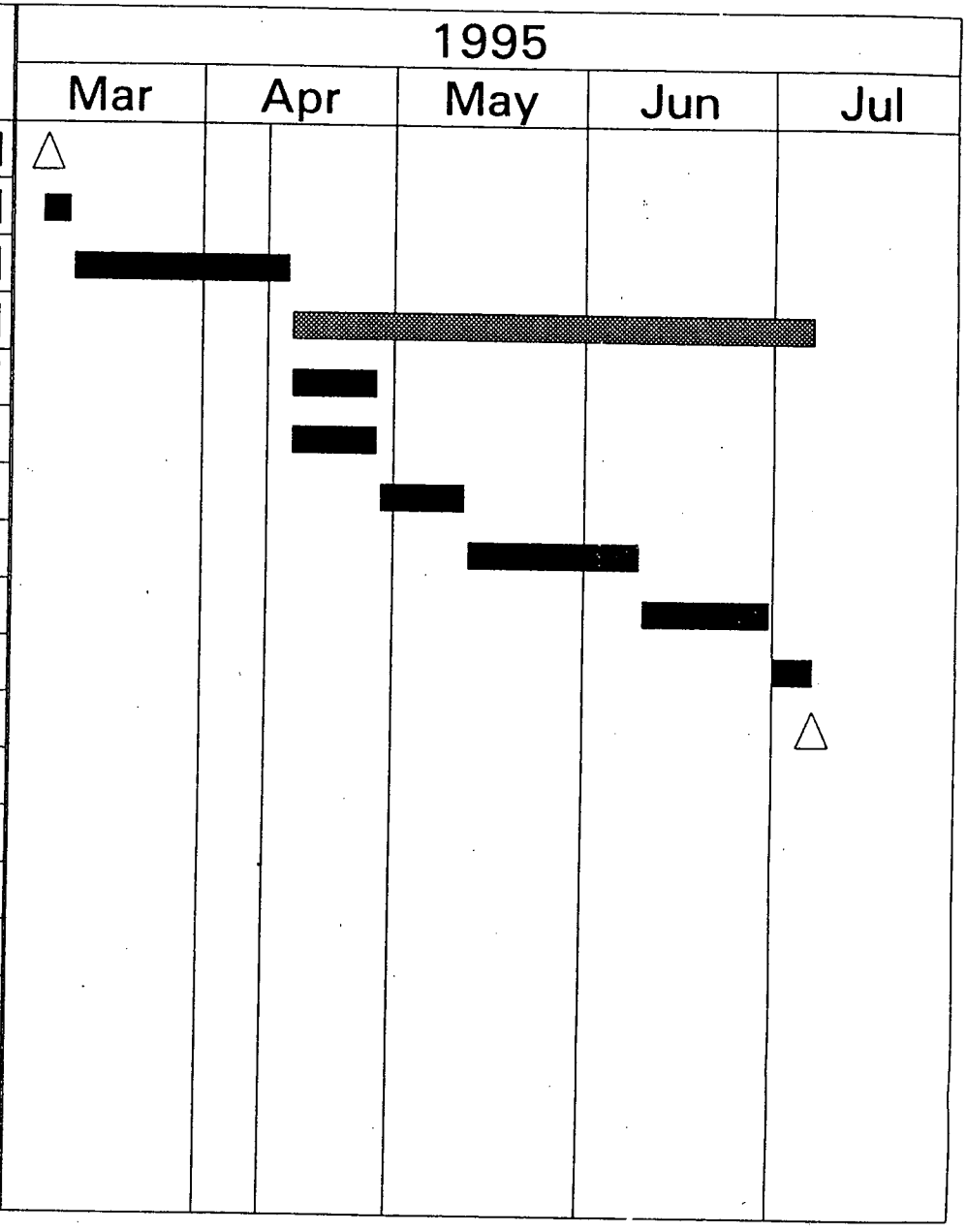
ATTACHMENT 9

PROPOSED SAMPLING SCHEDULE

Florasynth, Inc. ISRA Compliance Schedule

DRAFT

Task Name	Duration
ISRA Trigger	0.00 d
GIN Submission	5.00 d
Preliminary Assessment	35.00 d
SITE INVESTIGATION	84.00 d
Sampling Plan Preparation	14.00 d
Notification of Sampling	14.00 d
Sampling Fieldwork	14.00 d
Laboratory Analysis	28.00 d
Site Investigation Report	21.00 d
Report Review	7.00 d
Submission to NJDEP	0.00 d



Revised: Apr/13/95

File 201162

REMEDIAL INVESTIGATION REPORT / REMEDIAL ACTION WORKPLAN
for the
Former Florasynth Facility
300 North Street
Teterboro, Bergen County, New Jersey
ISRA Case # 95108

Prepared for:

Haarmann & Reimer
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January 16, 2002

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1. INTRODUCTION

Environmental Liability Management, Inc. (ELM), on behalf of Haarmann & Reimer (H&R), has prepared this *Remedial Investigation Report/Remedial Action Workplan* (RIR/RAW) for the Former Florasynth facility in Teterboro, Bergen County, New Jersey (Figures 1 and 2). This report was prepared in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E, *et seq.*), the Industrial Site Recovery Act Rules (N.J.A.C. 7:26B, *et seq.*), and the applicable NJDEP correspondence regarding this matter (summarized below).

In response to the NJDEP correspondence dated January 3, 2000, Baker Environmental, Inc. (Baker), on behalf of Florasynth, Inc., submitted a report to the NJDEP dated March 6, 2000. The NJDEP responded to the Baker report in correspondence dated April 23, 2001 that outlined the additional remedial activities required prior to approval of case closure/no further action. ELM was retained to address the outstanding issues detailed in the NJDEP's April 23, 2001 correspondence and to obtain a No Further Action (NFA) letter. Following discussions with the NJDEP Case Team, ELM submitted a letter dated August 16, 2001 that outlined the proposed scope of field work, including a proposed soil boring/temporary well point map, to address the outstanding NJDEP issues. After further conference call discussions between ELM and the NJDEP Case Team regarding the proposed field work, the NJDEP approved the proposed scope of work in a letter dated August 28, 2001. This RIR/RAW details the remedial activities completed at the site between July and September 2001 pursuant to the NJDEP correspondences dated April 23, 2001 and August 28, 2001 (Attachment A). The results of these activities support the NJDEP's prior approval for engineering/institutional controls and a No Further Action determination.

2. SUMMARY AND STATUS OF THE AREAS OF CONCERN (AOCs)

Previous reports and correspondences have identified Areas of Concern (AOCs) at the site. As a matter of recollection, a summary table, listing each AOC and the status (i.e., No Further Action (NFA) granted in particular NJDEP correspondence, or additional documentation/information requested) is provided below.

AOC	Location	Status
#1	Stressed Vegetation	NFA issued June 17, 1997
#2	Small Vent Pipes	NFA issued December 13, 1996
#3	Cut Pipe	NFA issued December 13, 1996
#4	White Pipe	NFA issued December 13, 1996
#5	Manhole	NFA issued December 13, 1996
#6	8,00-gallon Alcohol UST No. 1	NFA issued March 23, 1998
#7	Ethyl Alcohol UST No. 2	NFA issued December 13, 1996
#8	**Abandoned 20,000-gallon No. 4 Fuel Oil UST**	**Refer to Section 3.1 of this report.**
#9	Former 10,000-gallon No. 2 Fuel Oil UST	NFA issued March 14, 1997
#10a	**Spill Containment UST (Rear)**	**Refer to Section 3.2 of this report.**
#10b	Spill Containment UST (Loading Dock)	NFA issued April 23, 2001
#10c	Spill Containment UST (Northeast)	NFA issued April 23, 2001
#11	**Storage Area (Exterior)**	**Refer to Section 2.2 of this report.**
#12	Former Electrical Transformers	NFA issued April 23, 2001
#13	Asbestos	NFA issued December 13, 1996
#14	Fill Material	NFA issued March 14, 1997
#15	Production/ Reinjection Well	NFA issued December 16, 1996
#16	**Ground Water**	**Addressed Per Specific AOC.**
#17	**Potwash Area**	**Refer to Section 3.3 of this report.**
#18	Motor Fuel USTs	NFA issued April 23, 2001

On September 5 and 6, 2001, ELM completed a soil and ground water investigation program in accordance with the NJDEP approval dated August 28, 2001. The objectives of the investigation program were to address the remaining requirements regarding soil and/or ground water at AOC #8, AOC #10a, and AOC#17. Details of the investigation are provided in the subsequent sections of this report. In addition, other clarification issues raised by the NJDEP in the April 23, 2001 correspondence are addressed in the accompanying sections. In order to be as clear and concise as possible, each remaining AOC is addressed, immediately

followed by either a request for no further action or a proposal for the appropriate final remedial action.

2.1. NJDEP Correspondence Dated April 23, 2001 – Outstanding Issues Not Related to a Specific AOC

The NJDEP requested clarification on the location and use of the on-site dispersion and production wells. The dispersion well and production well are located near the northeastern portion of the property (Figure 2). The wells were installed for non-contact cooling and processing operations, and currently are not being used. However, both wells may be used in the future by H&R and, therefore, the wells will not be sealed at this time. Both wells are properly maintained in accordance with applicable NJDEP requirements, and are capped and locked to prevent unauthorized access. Therefore, no further issue remains with regard to these wells.

2.2. AOC #11: Exterior Storage Area

In the April 23, 2001 correspondence, the NJDEP requested revisions to a figure (Revised Figure 6) and a table (Revised Table 2) previously submitted in the March 2000 Baker report. ELM revised the aforementioned figure and table to include all soil sampling data obtained at AOC #11. The revised figure and table are included in Attachment B.

In the April 23, 2001 letter, the NJDEP also requested further information regarding the demolition/excavation activities completed at AOC #11 during the winter of 1998. According to Mr. Gary Blair (of H&R) and Mr. Pete Sparaco (formerly of H&R; now of parent company, Bayer), the demolition/excavation activities consisted solely of the removal of a concrete pad and footings. Both gentlemen recall that soil was minimally disturbed (i.e., the top 6 to 12 inches of soil) to remove the footings, but subsequently was put back in place. All soil remained on site; no soil was removed and transported for offsite disposal. Following removal of the concrete pad and footings, the area was covered with asphalt.

According to the April 23, 2001 NJDEP approval letter, since ground water was not encountered in soil borings completed within this AOC and no compounds were detected above the NJDEP Impact to Ground Water Soil Cleanup Criteria (IGWSCC), no further sampling with regard to ground water is required in this area.

As previously approved in the NJDEP's April 23, 2001 letter, the remaining residual base neutral compounds previously detected above the NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC) in soil samples GP-11, GP-44, and GP-46 will be addressed via engineering and institutional controls (i.e., the existing asphalt cap and a Deed Notice). A Draft Deed Notice has been prepared that includes the residual base neutral compounds in AOC #11 and is included in Attachment C. Based upon the above information, ELM requests that the NJDEP approve the filing of the Deed Notice and no further action for AOC #11.

3. SOIL AND GROUND WATER INVESTIGATION - SEPTEMBER 5 AND 6, 2001

On September 5 and 6, a soil and ground water investigation was completed at AOC #8, AOC #10a, and AOC #17 in accordance with the NJDEP letter dated August 28, 2001 and subsequent conversations between ELM and the NJDEP Case Team. TerraProbe of Carversville, Pennsylvania, provided GeoProbe drilling services. Pursuant to the NJDEP Field Sampling Procedures Manual, all soil samples were obtained from acetate sleeves driven by a macro core sampler. Accutest, Inc. of Dayton, New Jersey (NJ Certification # 12921), provided laboratory services. Soil samples submitted to the laboratory for volatile organic analyses were containerized via the methanol preservation method prior to shipment to the laboratory. The soil was screened utilizing a photoionization detector (PID), and the lithology was logged. Ground water samples were collected via hydropunch sampling or temporary well points (see specific sections below). Summary tables of the soil and ground water data collected on September 5 and 6, 2001 are included in Attachment D. This data is also presented in summary tables and discussed in the AOC-specific sections of the report. Soil boring and temporary well logs are included in Attachment E. The analytical data packages and electronic data deliverables are included in Attachment F.

3.1. AOC #8: Abandoned 20,000-Gallon No. 4 Fuel Oil UST

On September 5 and 6, soil borings/temporary well points SB-6, SB-7, and SB-8 were completed at AOC #8 to confirm that ground water concerns exist in this area. Specifically, the temporary wells were installed to confirm current ground water quality, as compared to the ground water data collected via temporary well points during the 1997 remedial investigation phase of the project. With respect to soil at AOC #8, the NJDEP previously approved no further action based on the data previously submitted, and approved the use of engineering and institutional controls as the soil remedy for the residual total petroleum hydrocarbon (TPHC) and several PAH compounds (i.e., benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)anthracene, benzo(a,h)anthracene) remaining in this area (i.e., existing asphalt/concrete cap and establishment of a Deed Notice).

In the April 23, 2001 approval letter, the NJDEP also requested clarification regarding the figure included in Attachment G of the March 2000 Baker report. Please refer to the revised figure in Attachment G of this report for the requested clarification.

As noted in ELM's August 16, 2001 correspondence, it was initially thought that aboveground and underground utilities in the vicinity of AOC #8 (and AOC #10a) would prove arduous for drilling activities. However, all proposed field work was completed as required without aboveground and underground utilities impeding the effort; the presence of utilities at these AOCs was not an issue. Therefore, the utility map requested by NJDEP as a contingency is no longer relevant and thus, is not provided. However, for reference purposes, selected photographs of the AOC #8 and AOC #10a areas are included in Attachment H.

Ground Water

As approved by NJDEP, temporary wells were attempted at locations SB-6, SB-7, and SB-8 (Figure 3). However, due to the presence of backfill material from the previous UST and remedial soil excavations, the boreholes collapsed which precluded the installation of a 1-inch diameter PVC well screen. Instead, ground water samples were collected via hydropunch direct-push method in accordance with the NJDEP Alternative Ground Water Sampling

Techniques Guide dated July 1994. Ground water samples were collected at approximately 6.0 to 8.0 feet below grade (i.e., screen was installed across first encountered water). Sample SB-6/GW was collected at the NJDEP-approved location. At location SB-7, refusal was encountered twice at 4.0 feet below grade at the NJDEP-approved location. Sample SB-7/GW was successfully collected approximately 7 feet north of the original location. At location SB-8, a storage shed located adjacent to the building wall prevented drilling activity at the NJDEP-specified location. Therefore, SB-8 was first attempted approximately 12 feet from the building wall, where refusal was encountered. The location of SB-8 was then moved approximately 5 feet east, where sample SB-8/GW was successfully collected (Figure 3). Although the locations were moved, the original intent of the ground water sampling program in AOC #8 was still maintained.

The ground water samples were submitted to Accutest for analysis of volatile organic compounds (VOCs) via US EPA Method 624+10 and base neutrals via US EPA Method 625+10. With the exception of methylene chloride, volatile organic compounds either were not detected above the method detection limit or were detected below the applicable NJDEP Ground Water Quality Standard (GWQS) in all three ground water samples. Methylene chloride was detected slightly above the GWQS of 3 μg/L in all three ground water samples at concentrations of 5.4 μg/L (SB-6/GW), 7.1 μg/L (SB-7/GW), and, 4.0 μg/L (SB-8/GW). Base neutral compounds either were not detected above the method detection limit or were detected below the applicable NJDEP Ground Water Quality Standard (GWQS) in all three ground water samples.

The locations of soil borings SB-6, SB-7, and SB-8 are depicted on Figure 3. The current data are tabulated on Table 1. Soil boring logs noting lithology encountered and PID readings are included in Attachment E. The laboratory analytical data package is included in Attachment F.

Proposed Remedial Action

As discussed above, the NJDEP approved no further sampling of soil based upon previously submitted data. NJDEP also previously approved the use of engineering and institutional controls as the soil remedy for the residual TPHC and PAH compounds at former sample locations X52, X53, and X59 remaining in this area (i.e., existing asphalt/concrete cap and establishment of a Deed Notice). A Draft Deed Notice has been prepared that includes the referenced TPHC and PAH compounds, and is included in Attachment C. Based upon the above information, and pending the NJDEP approval and filing of the Deed Notice, no further action for soil in AOC #8 is requested.

As presented above, the concentration of compounds previously detected in ground water above the GWQS during the 1997 investigation (i.e., benzene, bis(2-ethylhexyl)phthalate, VOC tentatively identified compounds (TICs) and BN TICs) are no longer present in this area at concentrations above the GWQS. These conditions are attributable to the soil excavation activities completed in this area and the effects of natural attenuation.

Methylene chloride was detected at concentrations ranging from 4.0 μg/L to 7.1 μg/L, slightly above the NJDEP GWQS of 3 μg/L, in the three recent ground water samples. Historically, methylene chloride was detected in the remedial investigation (i.e., pre-excavation) soil samples collected from AOC #10a (Former Spill Containment Tank) at concentrations above the applicable NJDEP IGWSCC. The AOC #10a pre-excavation soil samples were located approximately 20 to 25 feet from temporary well SB-8 installed at AOC #8 on September 5 and 6, 2001. As previously reported to the NJDEP, the former spill containment tank was subsequently removed and significant soil excavation was completed in AOC #10a (March 2000 Baker Report). All post-excavation soil samples were non-detect for volatile organic compounds, including methylene chloride. Accordingly, the predicted source of the methylene chloride has been removed for this area of the property. Based on the proximity of AOC #8 to AOC #10a (Figure 2), the low level concentration of methylene chloride detected in the ground water samples collected from the temporary wells at AOC #8 is attributable to residual methylene chloride formerly present in the soil at AOC #10a. The

extent of the dissolved methylene chloride is predicted to be generally limited to the former excavation area, based upon the fact that (1) the compounds are present in water only within the former excavation area; and (2) shallow ground water is not present outside of the former excavation area within the native material (see discussion below).

In order to address the localized area of methylene chloride detected slightly above the GWQS in AOC 8, a Ground Water Classification Exception Area (CEA) is proposed. Upon NJDEP approval of this proposed remedy, the final administrative details of the CEA will be submitted in accordance with NJDEP requirements.

3.2. AOC #10a: Spill Containment UST (Rear)

On September 5 and 6, soil borings SB-9 through SB-14 were completed at AOC #10a to address outstanding soil and ground water concerns stet in the NJDEP April 23, 2001 letter. With respect to soil, the NJDEP required horizontal and vertical delineation of arsenic in the area of previously collected post-excavation soil samples X43-2, X44-5, and X48-6. Regarding ground water, the NJDEP stated in the April 23, 2001 correspondence that if it can be demonstrated "that at least five feet of clay is present in this location between the bottom of the excavation (6 feet below grade) and first water, a ground water sample will not be required." As such, a soil boring (SB-11) was completed to address this issue. The details of the recent investigation activities are presented below.

Soil

After reviewing historical documentation, ELM confirmed that post-excavation soil samples X43-2 (sample collected at 2'-2.5' below grade) and X44-5 (sample collected at 5'-5.5' below grade) were collected at the same location. As such, X44-5 (arsenic at 4.5 mg/kg) vertically delineates X43-2 (arsenic at 64.1 mg/kg). Soil excavation activities completed in the area of Sample X-43-2 precluded the collection of a soil sample from the east and south, as all soil from the 2.0'-2.5' interval was removed from this area (Figure 3). Soil borings SB-9 and SB-10 were completed north and west, respectively, to provide horizontal delineation of X43-2. Soil samples were collected at 2.0'-2.5' feet below grade and analyzed for arsenic via US

EPA Method 6010. Arsenic was detected at concentrations of 15.6 mg/kg (SB-9) and 8.2 mg/kg (SB-10), below the NJDEP RDCSCC of 20 mg/kg.

Soil borings SB-11, SB-12, SB-13, and SB-14 were completed to horizontally and vertically delineate arsenic detected in post-excavation soil sample X48-6 (22.4 mg/kg at 6'-6.5' below grade) (Figure 3). SB-13 was completed at the former location of X48-6 to provide vertical delineation, with a soil sample collected from SB-13 at 7.5 feet below grade. SB-11, SB-12, and SB-14 provided horizontal delineation to the south, east and north, respectively. Soil samples were collected from SB-11 and SB-14 at 6.0 to 6.5 feet below grade. It should be noted that a soil sample could not be collected at the NJDEP-approved location of SB-12 due to the presence of backfill material to a depth of 8.0 feet below grade (this location was right on the edge of the former soil excavation). As a result, SB-12 was moved slightly to the southwest in order to obtain a native soil sample, in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E, *et seq.*). Backfill material was encountered to a depth of 7.5 feet below grade where native soil was encountered. Accordingly, a soil sample was collected at this location at 7.5 feet below grade to serve as the delineation sample.

All soil samples were submitted to Accutest for analysis of arsenic via US EPA Method 6010. Arsenic was not detected above the method detection limit in the sample from SB-12. In the other soil samples, arsenic was detected below the NJDEP RDCSCC of 20 mg/kg at concentrations of 6.3 mg/kg (SB-11), 2.4 mg/kg (SB-13), and 4.7 mg/kg (SB-14) (Table 2). Based upon the results of the above soil delineation sampling, the horizontal and vertical extent of arsenic above the NJDEP RDCSCC of 20 mg/kg has been delineated in accordance with NJDEP requirements. The proposed final remedial action for this area (i.e., engineering/ institutional controls) is presented below.

The locations of soil borings SB-9 to SB-14, as well as post-excavation soil samples X43-2, X44-5, and X48-6, are depicted on Figure 3. The current and relevant historical data are tabulated on Table 2. Soil boring logs noting lithology encountered and PID readings are

included in Attachment E. The laboratory analytical data package is included in Attachment F.

Ground Water

As discussed above, the NJDEP previously stated that if at least five feet of clay were present in this area between the bottom of the excavation (6 feet below grade) and first water, a ground water sample would not be required. Therefore, to address this issue, soil boring SB-11 was drilled to a depth of 12.0 feet below grade (i.e., extending to 6.0 feet below the bottom of the excavation) (Figure 3). Soil encountered consisted of varying colors of dense to very dense clay from approximately 3.5 feet below grade to 12.0 feet below grade. An incidental amount of moisture (i.e., damp soil) was observed at the 8.0- to 12.0-foot interval. However, no visible or measurable amount of ground water was observed at SB-11. Further, to gather additional lithological data, soil borings SB-15 and SB-16 were completed approximately 48 feet east and 54 feet south of SB-11, respectively. Both soil borings were completed to 12.0 feet below grade. As with soil boring SB-11, varying colors of dense to very dense clay were observed from approximately 2.0 or 3.5 feet to 12.0 feet below grade. Visible or measurable ground water was not observed in either soil boring. Soil boring logs depicting the lithology encountered are included in Attachment E.

Based upon the above information, the NJDEP's previous condition regarding the need to complete a ground water investigation in AOC 10a was not satisfied and, therefore, no further investigation/action with regard to ground water is required for this area.

Proposed Remedial Action

As presented above, arsenic in AOC #10a has been horizontally and vertically delineated to the RDCSCC in accordance with NJDEP requirements. Arsenic either was not detected above the method detection limit or was detected at concentrations below the NJDEP RDCSCC in the six soil samples (SB-9 through SB-14) collected on September 5 and 6, 2001. The source of the arsenic is predicted to be historical fill material (i.e., non-indigenous soil/material brought to the site during historic site development activities). Accordingly, this localized

area of residual arsenic will be addressed via engineering and institutional controls (i.e., the existing asphalt /concrete cap and a Deed Notice). As required in the NJDEP's April 23, 2001 letter, this proposed remedy would also include the residual PAH compounds previously detected in sample X-43-2 (Table 3). A Draft Deed Notice has been prepared that includes the arsenic and PAH compounds, and is included in Attachment C. Based upon the above information, and pending the NJDEP approval and filing of the Deed Notice, no further action for AOC #10a (Spill Containment UST-Rear) is requested.

3.3. AOC #17: Potwash Area

On September 5 and 6, soil boring SB-5 and temporary well points SB-1 through SB-5 were completed to address outstanding soil and ground water concerns associated with AOC #17. With respect to soil at AOC #17, in the April 23, 2001 letter, the NJDEP requested the collection of a soil sample at the bottom of the former storm sewer pipe located in this area. As presented below, a soil sample was collected from boring SB-5 to address this issue. In the same correspondence, the NJDEP also requested a diagram depicting the existing storm sewer lines. Please note that the storm sewer lines are depicted on Figure 2 (General Site Map) of this report.

With regard to ground water, the NJDEP previously requested that ground water samples be collected within 10 feet of AOC #17. However, due to a new addition to the building, collection of ground water samples within 10 feet of AOC #17 is not possible as this area is now located beneath the new building. As explained in subsequent conversations with the NJDEP and in ELM's letter dated August 16, 2001, the Information Technology section and mainframe computers servicing the entire operations of the building are located directly above AOC #17. Therefore, ELM proposed the collection of ground water samples using temporary well points to address the NJDEP's ground water requirements. In a letter dated August 28, 2001, the NJDEP approved this proposed ground water investigation strategy, as conditioned by the installation of several additional well points. Soil borings/temporary well points SB-1 to SB-5 were installed in accordance with the scope of work outlined in the August 28, 2001 NJDEP correspondence and subsequent conference calls with the NJDEP Case Team.

Selected photographs and a figure depicting the current floor plan are included in Attachment H and Attachment I, respectively.

Soil

On September 5, 2001, soil boring SB-5 was installed within the former sewer line trench. The boring was completed to a depth of 8 feet below grade (Figure 4). Soil was screened with a PID and lithology was noted in Attachment E. PID readings were not detected above background. Based on discussions with on-site operations managers, it was determined that the bottom of the sewer line trench was approximately 3.5 feet below grade. As such, a soil sample (SB-5/3.5-4.0) was collected from this interval and submitted to Accutest for analyses of volatile organic compounds (VOCs) via US EPA Method 8260+10 and base neutral compounds (BNs) via 8270+10.

In sample SB-5/3.5-4.0, VOCs were not detected above their applicable method detection limit (Table 4). Several BN compounds were detected at estimated concentrations well below the NJDEP RDCSCC. The laboratory analytical data package is included in Attachment F. Based upon the above investigation, no further investigation/action is proposed for the former sewer line trench.

Ground Water

Temporary wells were installed at NJDEP-approved locations SB-1, SB-2, SB-3, SB-4, and SB-5 (Figure 3). The wells were installed using the passively placed narrow diameter point technique in accordance with NJDEP guidance (NJDEP. 1994). The temporary wells were allowed to equilibrate overnight in preparation for sample collection on September 6, 2001. Due to borehole collapse and/or dry temporary wells at some locations, installation of a 1-inch diameter PVC well screen to at least 5 feet below grade proved difficult in some locations. Ground water samples were collected in accordance with applicable NJDEP guidance from the temporary wells at locations SB-1, SB-2, and SB-4 without problems. The temporary well at location SB-3 was essentially dry, so the boring was re-drilled and the well was re-set. Afterwards, a ground water sample was successfully collected. At temporary well SB-5, the

screen had silted in and the well was dry. However, a ground water sample was successfully collected via the hydropunch method, using the methodology described at AOC #8, at locations SB-6, SB-7, and SB-8. Depth to ground water in SB-1 and SB-2 was approximately 2.25 feet below grade. Depth to ground water in SB-3 and SB-4 was approximately 4.5 feet below grade.

The ground water samples were submitted to Accutest for analysis of volatile organic compounds (VOCs) via US EPA Method 624+10 and base neutrals (BNs) via US EPA Method 625+10. Volatile organic compounds either were not detected above the method detection limit or were detected below the applicable NJDEP GWQS in all five ground water samples (Table 5). With the exception of tentatively identified compounds (TICs) in the sample from SB-5/GW, base neutral compounds either were not detected above the method detection limit or were detected below the applicable NJDEP Ground Water Quality Standard (GWQS) in all five ground water samples. In sample SB-5/GW, seventeen TICs were detected at an estimated total concentration of 940 μg/L. Of the seventeen TICs, only two unknown TICs were detected at estimated concentrations above 100 μg/L; one TIC was detected at an estimated concentration of 330 μg/L and one was detected at 120 μg/L. Please note that the presence of these TICs was likely due to suspended solids in the temporary well sample. The laboratory analytical data package is included in Attachment F.

The presence of the TICs in sample SB-5/GW is predicted to be attributable to the high volume of suspended solids present in the ground water sample. This high turbidity is typically unavoidable when utilizing the ground water sampling methodology, particularly within a high clay/silt matrix. BN and VOC TICs were present (below the NJDEP SCC) in the soil sample collected from SB-5, confirming the source of the TICs in the ground water sample from this location as being from the suspended solids. Accordingly, no further action is required for the slightly elevated TICs in the ground water sample from this location (SB-5).

Proposed Remedial Action

With respect to soil in the area of the former sewer line trench at AOC 17, volatile organic and base neutral compounds either were not detected or were detected at concentrations well below their applicable NJDEP RDCSCC in the soil sample collected at SB-5/3.5-4.0. As documented in the previous reports submitted to NJDEP, two compounds were detected above the NJDEP IGWSCC in the soil beneath the building following the August 1997 remedial soil excavation localized area of chemical residuals (i.e., diethylphthalate in three former post-ex samples and 1,1,2,2-tetrachloroetheane in one post-ex sample). Further excavation of soil in this area could not be completed without compromising the integrity of the building foundation. As previously proposed, this localized area would be included in the Deed Notice for the site (See Attachment C - Draft Deed Notice). The existing building foundation serves as a protective engineering control and essentially eliminates any water infiltration into this area in the future. As discussed below, this area of soil does not pose a significant threat to ground water quality beneath the property.

Based on the field observations and ground water sampling data collected on September 5 and 6, 2001, ground water within/immediately adjacent to the area of AOC #17 has not been impacted from the former potwash area. As observed during the soil boring/temporary well installation of September 5 and 6, 2001, the presence of first encountered ground water at the site is directly related to the amount (i.e., extent and depth) of fill/reworked overburden material that overlies the native silty clay and clayey silt soil. Generally, ground water was encountered at approximately 3.0 to 5.0 feet below grade. The source of this water is predominately infiltration from the surface. Any limited horizontal flow within this zone will be dictated by the presence/extent of the non-indigenous soil material above the clay/silt layer. The underlying clay/silt also will significantly limit the extent of downward vertical movement of this water.

As presented in the soil logs (Attachment E), immediately below the shallow fill/overburden material (i.e., surface to approximately 5.0 feet below grade), the moisture content of the soil decreases dramatically with depth, as the native silty clay and clayey silt becomes more and

more dense. As documented in the recent investigation, ground water was not present in soil borings located beyond the area immediately surrounding the building and the former excavation areas (i.e., boring locations SB-11, SB-12, SB-15 and SB-16).

Based upon the site-specific data, no further investigation or remedial action (beyond the proposed Deed Notice) is proposed for AOC #17 based upon the following:

- Significant source removal was previously completed in this area of concern;

- Post-excavation soil samples confirmed that only two compounds (benzene and diethylphthalate) were detected above the NJDEP IGWSCC within a localized area beneath the existing building (i.e., no significant water infiltration or contact with these residuals is predicted in the future);

- Extensive ground water sampling has been completed surrounding the former area of concern, providing a conservative investigation of ground water that confirmed no compounds of concern above GWQS. No further ground water sampling can be completed inside the existing building in the Area for AOC 17 due to physical limitations and impacts to operations;

- The site is located within an industrial area of Teterboro where there is no use of shallow ground water or presence of any other sensitive receptors.

4. CONCLUSIONS

4.1. Summary of the Proposed Remedial Action

The following provides a brief summary of the proposed remedial action following completion of the remedial activities presented in Section 3.0:

- AOC #11 – Exterior Storage Area: With respect to ground water at AOC #11, the NJDEP approved no further sampling in the April 23, 2001 correspondence. As

proposed in Section 2.2, no further action for soil is proposed beyond the maintenance of the existing asphalt/concrete cap and the establishment of the Deed Notice (Attachment C) for the residual base neutral compounds detected in soil samples GP-11, GP-44, and GP-46.

- AOC #8 - Abandoned 20,000-Gallon No. 4 Fuel Oil UST: With respect to soil at AOC #8, the NJDEP required no further investigation and approved the use of existing engineering controls and the establishment of a Deed Notice (Attachment C) as the soil remedy. A Classification Exception Area for low level methylene chloride detected in ground water will be submitted under separate cover to the NJDEP upon receipt of approval of this proposed final remedial action.

- AOC #10a: Spill Containment UST (Rear): As proposed in Section 3.2, the residual arsenic in soil has been delineated and will be addressed through the maintenance of the existing engineering controls (i.e., asphalt/concrete) and the establishment of a Deed Notice. As required, the PAH compounds detected in sample X43-2 in soil are also included in the Deed Notice (Attachment C). Based on observations during the September 5 and 6, 2001 field investigation, no further action with regard to ground water is required.

- AOC #17 – Potwash Area: Based on observations and data obtained during the September 5 and 6, 2001 field investigation, and as proposed in Section 3.3, no further action for soil and ground water is proposed beyond the maintenance of the existing engineering controls (i.e., the concrete building foundation) and the establishment of the Deed Notice for this area (Attachment C).

4.2. Data Presentation and Quality Assurance

All activities were completed in accordance with the quality assurance and quality control procedures detailed in N.J.A.C. 7:26E-2. Data were presented in accordance with all

applicable sections of N.J.A.C. 7:26E. A Report Certification form is included in Attachment J.

4.3. Health and Safety Plan

All site activities were conducted in accordance with all pertinent general industry (29 CFR 1910) and construction (29 CFR 1926) standards of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA), as well as any other state laws and regulations and municipal codes and ordinances.

5. REFERENCES

Baker. 2000. Response to Comments on Site Assessment Report. Baker Environmental, Inc. March 6, 2000.

Baker. 1998. Remedial Investigation/ Remedial Action Report and Remedial Action Workplan. Baker Environmental, Inc. December 4, 1998.

NJDEP. 2001. NJDEP Response Correspondence dated April 23, 2001.

NJDEP. 2001. NJDEP Response Correspondence dated August 28, 2001.

NJDEP. 1999. Soil Cleanup Criteria. Revised May 3, 1999.

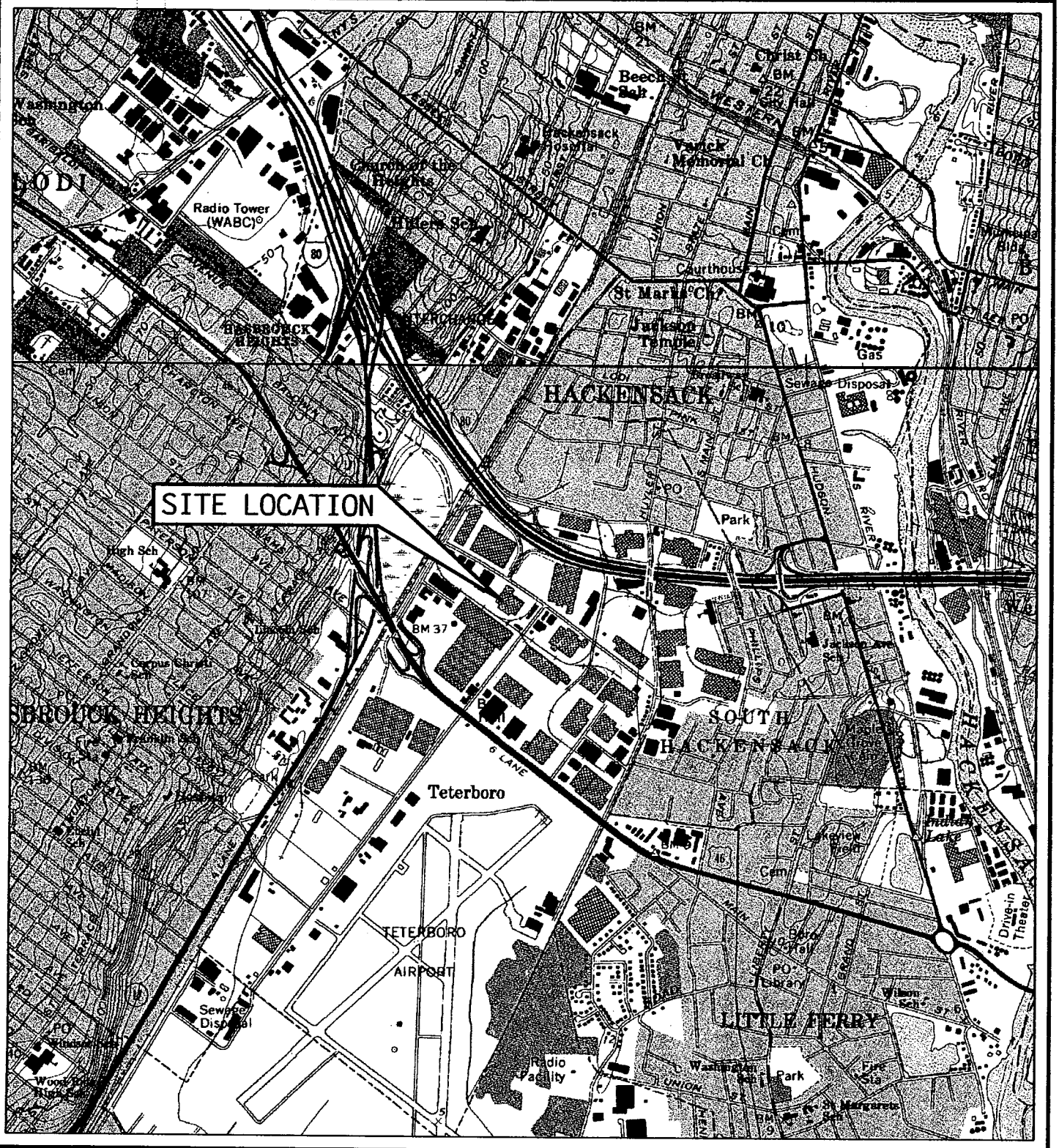
NJDEP. 1995. Guide for the Submission of Remedial Action Workplans. March 1995.

NJDEP. 1994. Alternative Ground Water Sampling Techniques Guide. July 1994.

NJDEP. 1992. Field Sampling Procedures Manual.

USGS. Hackensack, NJ 7.5 Minute Series (Topographic) Map. United States Department of the Interior, Geological Survey.

USGS. Weehawken, NJ-NY 7.5 Minute Series (Topographic) Map. United States Department of the Interior, Geological Survey.

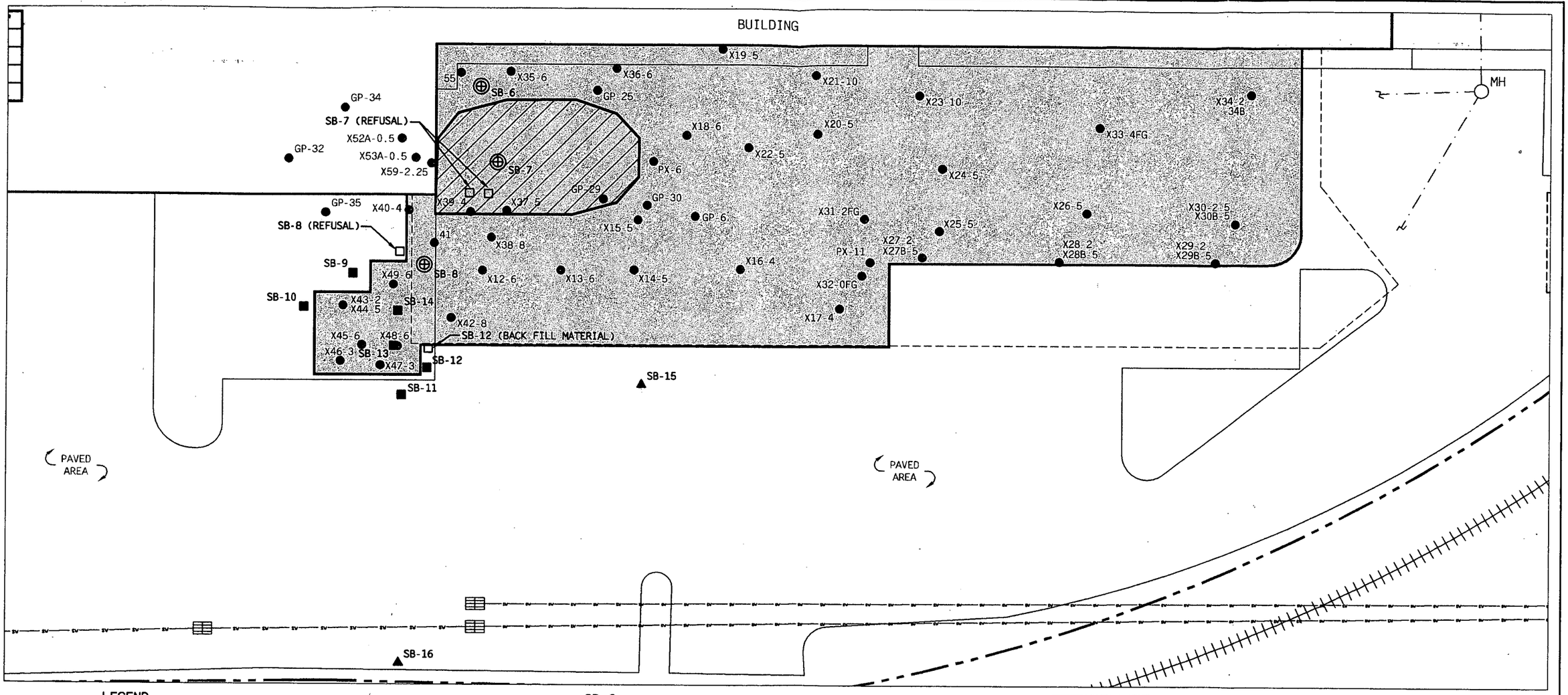


0 2,000 4,000

SCALE: 1" = 2,000'

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4820 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

TITLE:	FIGURE 1 SITE LOCATION MAP
LOCATION:	300 NORTH STREET TETERBORO, NEW JERSEY
DATE:	11/26/01
PROJECT NO.:	201162
FILENAME:	201162_SITELOC
SOURCE:	USGS TOPO, HACKENSACK, N.J. QUAD. USGS TOPO, WEEHAWKEN, N.J.-N.Y. QUAD.



LEGEND

- PROPERTY LINE (APPROX.)
- RAILROAD
- EDGE OF PAVEMENT
- SANITARY SEWER SYSTEM
- FORMER BUILDING LINE
- PX-6 — SOIL SAMPLE LOCATION AND ID (BAKER, 1997)
- SB-15 — SOIL BORING LOCATION & ID (LITHOLOGY ONLY - NO SAMPLE COLLECTED) (ELM SEPTEMBER 5 AND 6, 2001)
- SB-9 — SOIL BORING LOCATION & ID (ELM SEPTEMBER 5 AND 6, 2001)
- SB-12 — REFUSAL/FILL MATERIAL LOCATION & ID (NO SAMPLE COLLECTED) (ELM SEPTEMBER 5 AND 6, 2001)
- SB-6 — TEMPORARY WELL LOCATION AND ID (ELM SEPTEMBER 5 AND 6, 2001)
- AREA OF EXCAVATION (>20')
- AREA OF EXCAVATION (<20')

NOTES:

1) SOIL BORING SB-13 COLLECTED AT X48-6 SAMPLE LOCATION.

SOURCE:

1) SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

2) SAMPLING LOCATIONS TAKEN FROM PLAN ENTITLED "AREA OF CONCERN #8 ABANDONED 20,000 GALLON NO. 4 FUEL OIL UST RA SAMPLING LOCATIONS" PREPARED BY BAKER ENVIRONMENTAL.

0 20 40

SCALE: 1" = 20'

TITLE: FIGURE 3

TEMPORARY WELL AND SOIL BORING LOCATIONS AT AOC #8 (AOC #16) AND AOC #10A ON SEPTEMBER 5 AND 6, 2001

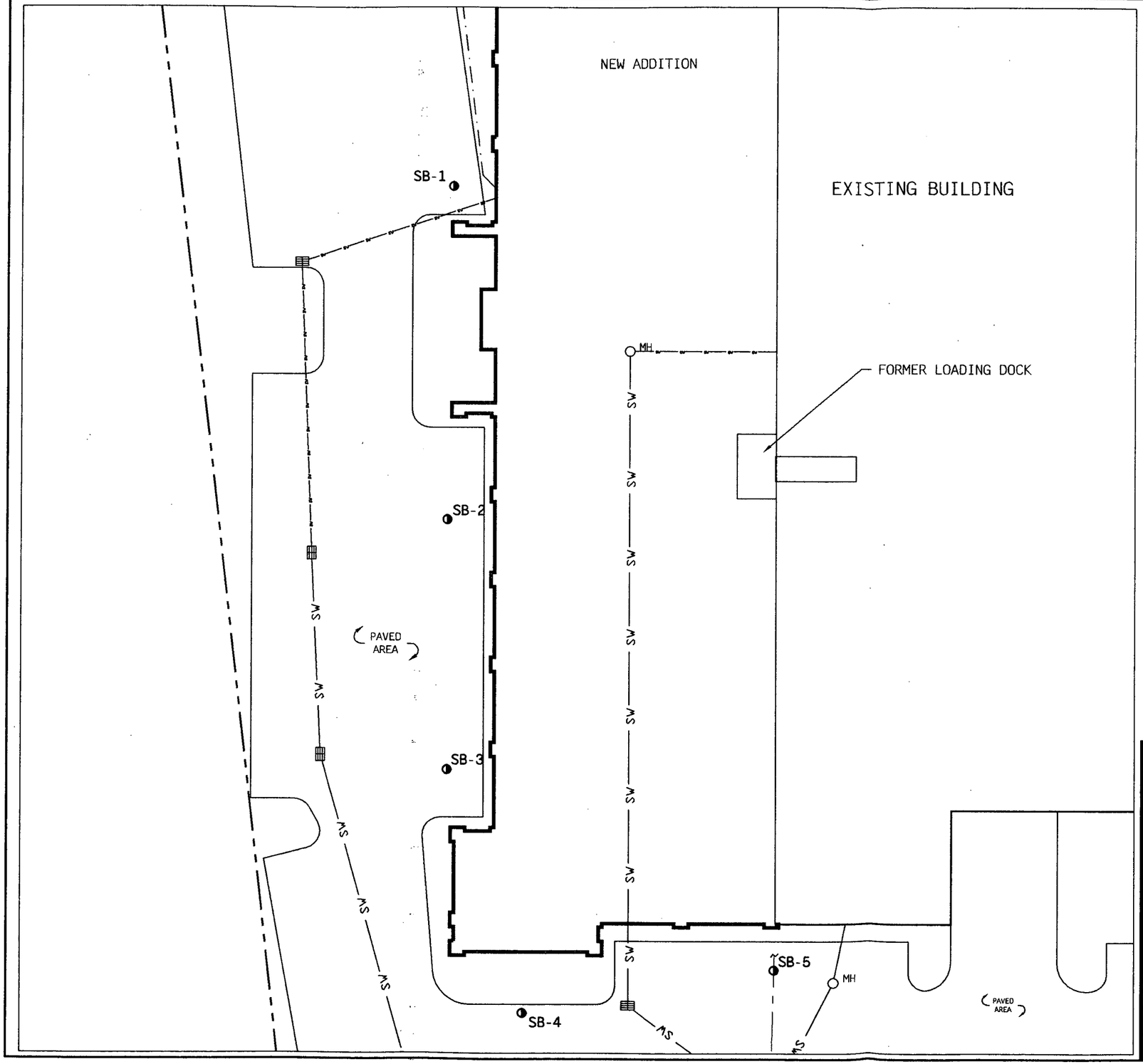
LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 12/28/01

FILENAME: 201162_AOC

LAYOUT: FIGURE_4

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005



LEGEND

- SB-1 SOIL BORING/TEMPORARY WELL LOCATION & ID
- MH MANHOLE
- PROPERTY LINE
- STORM SEWER SYSTEM
- SANITARY SEWER SYSTEM
- FENCE
- FORMER SEWER LINE / TRENCH

NOTES:

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

0 30 60

SCALE: 1" = 30'

TITLE:

FIGURE 4

TEMPORARY WELL AND SOIL BORING LOCATIONS AT AOC #17 ON SEPTEMBER 5 AND 6, 2001

LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 12/28/01

FILENAME: 201162_AOC

LAYOUT: FIGURE_3

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 305, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

TABLE 1
Summary Ground Water Data at AOC #8 and AOC #16 - September 5 and 6, 2001
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP	SB-6/GW		SB-7/GW		SB-8/GW	
Laboratory ID	Class IIA	E98264-9		E98264-15		E98264-8	
Area of Concern	Ground Water	AOC 8		AOC 8		AOC 8	
Sample Media	Quality	GW		GW		GW	
Sample Date	Criteria	9/5/01		9/6/01		9/5/01	
Units Of Measure	ug/l	ug/l		ug/l		ug/l	
Volatile Organic Compounds							
Benzene	1	1.0	U	1.0	U	1.0	U
Toluene	1,000	1.0	U	1.0	U	1.0	U
Ethylbenzene	700	1.0	U	1.2		1.0	U
Xylene (total)	1,000*	5.0	U	5.0	U	5.0	U
Acetone	700	4.1		4.0		3.4	
2-Butanone	300	5.0	U	5.0	U	5.0	U
Methylene Chloride	3*	**5.4**		**7.1**		**4.0**	
Total TICs	NS	119.9 (4)	J	379.6 (14)	J	196 (3)	J
Base Neutrals							
Acenaphthene	400	0.56	J	2.3		2.0	U
Benzo (a) anthracene	NS	2.0	U	2.0	U	2.0	U
Benzo (a) pyrene	NS	2.0	U	2.0	U	2.0	U
Benzo (b) fluoranthene	NS	2.0	U	2.0	U	2.0	U
Benzo (g,h,i) perylene	NS	2.0	U	2.0	U	2.0	U
Benzo (k) fluoranthene	NS	2.0	U	2.0	U	2.0	U
Carbazole	NS	0.51	J	0.77	J	2.0	U
Chrysene	NS	2.0	U	0.79	J	2.0	U
Dibenzofuran	NS	0.51	J	1.2	J	5.0	U
Diethyl phthalate	5,000	3.0		2.0	U	2.0	U
bis (2-Ethylhexyl) phthalate	30	2.0	U	1.5	J	2.0	U
Fluoranthene	300	2.0	U	2.0	U	2.0	U
Fluorene	300	0.94	J	2.7		2.0	U
Ideno (1,2,3-cd) pyrene	NS	2.0	U	2.0	U	2.0	U
2-Methylnaphthalene	NS	1.1	J	19.1		2.0	U
Naphthalene	NS	0.85	J	9.3		2.0	U
Phenanthrene	NS	1.4	J	3.8		2.0	U
Pyrene	200	2.0	U	1.3	J	2.0	U
Total TICs	NS	142.8 (13)	J	303 (15)	J	29.5 (4)	J

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria
*Interim Specific Criteria
Notes:
NS = No Standard
NT = Not Tested

201162\Excel
Florasynth AOC8-GW-0901.xls\GW-AOC8
1/16/02

TABLE 2
Arsenic Results in Soil at AOC #10a - November 7, 1997 and September 5 and 6, 2001
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP Soil Cleanup Criteria			X43-2	X44-5	X48-6	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14
Laboratory ID				30337	30338	30342	E98264-4	E98264-3	E98264-2	E98264-7	E98264-6	E98264-5
Area of Concern				AOC 10a	AOC 10a	AOC 10a	AOC 10a	AOC 10a	AOC 10a	AOC 10a	AOC 10a	AOC 10a
Sample Media				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Residential Direct Contact	Non-Residential Direct Contact	Impact to Ground Water	11/7/97	11/7/97	11/7/97	9/5/01	9/5/01	9/5/01	9/5/01	9/5/01	9/5/01
Sample Depth				2-2.5'	5-5.5'	6-6.5'	2.0'	2.0'	6.0'	7.5'	7.5'	6.0'
Percent Solids				NA	NA	NA	85.0	81.0	81.8	83.9	76.4	85.8
Units Of Measure	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Metals												
Arsenic	20	20	NS	**64.1**	4.5	**22.4**	15.6	8.2	6.3	1.2 U	2.4	4.7

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria

Notes:
NS = No Standard
NA = Not Available

201162\Excel
Florasynth AOC10a-Soil-0901.xls\Arsenic
1/16/02

TABLE 3
Residual Polyaromatic Hydrocarbon (PAH) Concentrations in Post-Excavation Soil Sample X43-2 at AOC #10a
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP Soil Cleanup Criteria			X43-2
Laboratory ID				30337
Sample Media	Residential Direct Contact	Non-Residential Direct Contact	Impact to Ground Water	Soil
Sample Date				11/7/97
Sample Depth				2-2.5'
Unit of Measure	mg/kg	mg/kg	mg/kg	mg/kg
Semivolatile Organic Compounds				
Benzo(a)anthracene	0.9	4	500	**2.7**
Benzo(a)pyrene	0.66	0.66	100	**3.66**
Benzo(b)fluoranthene	0.9	4	50	**2**
Benzo(k)fluoranthene	0.9	4	500	**2.5**
Indeno(1,2,3-cd)pyrene	0.9	4	500	**2.1**

Bold values indicate concentration exceeds criteria

Notes:
NA = Not Available

201162\Excel
Florasynth AOC10a-Soil-0901.xls\Hist. PAHs
1/16/02

TABLE 4
Summary of Soil Results in Sample SB-5/3.5-4.0 at AOC #17 - September 5, 2001
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP Soil Cleanup Criteria			SB-5	
Laboratory ID				E98264-1	
Area of Concern				AOC 17	
Sample Media				Soil	
Sample Date	Residential Direct Contact	Non-Residential Direct Contact	Impact to Ground Water	9/5/01	
Sample Depth				3.5-4.0'	
Percent Solids				89.1	
Units Of Measure	mg/kg	mg/kg	mg/kg	mg/kg	
Volatile Organic Compounds					
Benzene	3	13	1	0.15	U
Toluene	1,000	1,000	500	0.15	U
Ethylbenzene	1,000	1,000	100	0.15	U
Xylene (total)	410	1,000	67	0.15	U
Total TICs	NS	NS	NS	0	
Base Neutrals					
Benzo (a) anthracene	0.9	4	500	0.041	J
Benzo (a) pyrene	0.66	0.66	100	0.0376	J
Benzo (b) fluoranthene	0.9	4	50	0.0485	J
Benzo (g,h,i) perylene	NS	NS	NS	0.0231	J
Benzo (k) fluoranthene	0.9	4	500	0.0212	J
Chrysene	9	40	500	0.0418	J
Fluoranthene	2,300	10,000	100	0.0728	J
Indene (1,2,3-cd) pyrene	0.9	4	500	0.0264	J
Phenanthrene	NS	NS	NS	0.0288	J
Pyrene	1,700	10,000	100	0.0656	J
Total TICs	NS	NS	NS	0.35 (3)	
Metals					
Arsenic	20	20	NS	NT	

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria

Notes:
NS = No Standard
NT = Not Tested

201162\Excel
Florasynth AOC17-GW-Soil-0901.xls\Soil-AOC17
1/16/02

TABLE 5
Summary Ground Water Data at AOC #17 - September 5 and 6, 2001
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP	SB-1/GW		SB-2/GW		SB-3/GW		SB-4/GW		SB-5/GW	
Laboratory ID	Class IIA	E98264-10		E98264-11		E98264-12		E98264-13		E98264-14	
Area of Concern	Ground Water	AOC 17		AOC 17		AOC 17		AOC 17		AOC 17	
Sample Media	Quality	GW		GW		GW		GW		GW	
Sample Date	Criteria	9/6/01		9/6/01		9/6/01		9/6/01		9/6/01	
Units Of Measure	ug/l	ug/l		ug/l		ug/l		ug/l		ug/l	
Volatile Organic Compounds											
Benzene	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	1,000	1.0	U	1.0	U	1.0	U	1.0	U	25.5	
Ethylbenzene	700	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Xylene (total)	1,000*	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	700	10.8		13.8		4.6		4.0		119	
2-Butanone	300	5.0	U	8.3		5.0	U	5.0	U	5.0	U
Methylene Chloride	3*	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Total TICs	NS	0		0		0		0		212 (9)	J
Base Neutrals											
Acenaphthene	400	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Benzo (a) anthracene	NS	2.0	U	2.0	U	0.65	J	1.5	J	2.0	U
Benzo (a) pyrene	NS	2.0	U	2.0	U	0.65	J	1.7	J	2.0	U
Benzo (b) fluoranthene	NS	2.0	U	2.0	U	0.89	J	2.2		2.0	U
Benzo (g,h,i) perylene	NS	2.0	U	2.0	U	2.0	U	0.99	J	2.0	U
Benzo (k) fluoranthene	NS	2.0	U	2.0	U	2.0	U	0.80	J	2.0	U
Carbazole	NS	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chrysene	NS	2.0	U	2.0	U	0.66	J	1.5	J	2.0	U
Dibenzofuran	NS	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Diethyl phthalate	5,000	2.0	U	2.0	U	1.3	J	2.0	U	2.0	U
bis (2-Ethylhexyl) phthalate	30	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Fluoranthene	300	2.0	U	2.0	U	1.1	J	2.5		2.0	U
Fluorene	300	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Ideno (1,2,3-cd) pyrene	NS	2.0	U	2.0	U	0.52	J	1.1	J	2.0	U
2-Methylnaphthalene	NS	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	NS	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Phenanthrene	NS	2.0	U	2.0	U	2.0	U	0.82	J	2.0	U
Pyrene	200	2.0	U	2.0	U	1.1	J	2.7		2.0	U
Total TICs	NS	0		0		76.2 (5)	J	0		940 (17)	J

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria
*Interim Specific Criteria

Notes:
NS = No Standard
NT = Not Tested

201162\Excel
Florasynth AOC17-GW-Soil-0901.xls\GW-AOC17
1/16/02

ATTACHMENT A

NJDEP Correspondences dated April 23, 2001 and August 28, 2001

Received 4/27/01

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Nicholas Scarpa
300 North Street
Teterboro, NJ 07608

APR 23 2001

Re: Remediation Agreement In the Matter of Florasynth, Inc.
Florasynth, Inc. (Florasynth)
Teterboro, Bergen County
ISRA #E95108
Response to Comments on the Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31,1997, and Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998 dated March 6, 2000

Dear Mr. Freeman:

The New Jersey Department of Environmental Protection (NJDEP) has completed its review of the Response to Comments on the Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31,1997 and the Remedial Investigation/Remedial Action Report and Remedial Action Workplan (RI/RAR/RAW) dated December 4, 1998. The NJDEP's comments regarding the above referenced report are noted below:

I. Soil Comments

A. Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31, 1997

1. Florasynth Response:

NJDEP on March 23, 1998 issued a "No Further Investigation Approval Letter".

NJDEP Requirements:

No Further Investigation is still acceptable.

B. Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998:

1. Florasynth Response:

Florasynth submitted revised summary tables of laboratory analysis results for post-excavation samples in AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil Underground Storage Tank (UST), AOC#10: Spill Containment UST, AOC#11: Storage Area (Exterior) and AOC#17: Potwash Area, with an additional column comparing the results to the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) or Impact to Groundwater Soil Cleanup Criteria (IGWSCC), as appropriate. Based on the results shown in these tables, Deed Notices are proposed for AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil UST, AOC#11: Storage Area (Exterior), and AOC#17: Potwash Area, where levels of contamination above

RDCSCC remain. No further action is proposed for AOC#10: Spill Containment UST, AOC#12: Former Electric Transformers, and AOC#18: Motor Fuel Oil UST as no results above RDCSCC were found.

NJDEP Requirements:

NJDEP will comment on Florasynth's proposal for NFA at AOC#10: Spill Containment UST, AOC#12: Former Electric Transformers, and AOC#18: Motor Fuel Oil UST in those respective sections below.

2. Florasynth Response:

Florasynth concurs that AOC#8: Abandoned 20,000-Gallon #4 Fuel Oil UST, AOC#10: Spill Containment UST, AOC#11: Storage Area (Exterior), AOC#12: Former Electric Transformers, AOC#16: Groundwater and AOC#17: Potwash Area have not received "No Further Action" approval from NJDEP. With respect to AOC#14: Fill Material, our records confirm that in a letter dated March 14, 1997 from Stephen Maybury of NJDEP to David J. Freeman of Battle Fowler, under Item I, referencing the fill material for the former 10,000-Gallon, #2 Fuel Oil UST (which is AOC#14: Fill Material) "... the Department has determined that no further action is required in this area with regard to soils issues." This letter addresses AOC#1: Stressed Vegetation, AOC#9: Former 10,000-Gallon #2 Fuel Oil UST and AOC#14: Fill Material.

NJDEP Requirements:

The issue of fill material on site arises from the Site Investigation (SI) Report which stated that three subsurface zones exist in the first 12 feet below grade. The first zone consisted of primarily [historic] fill material. This zone was found in areas anywhere from grade to 6 feet in depth. If Florasynth claims it is a source of contamination, then they are required to address this fill material pursuant to the Technical Requirements for Site Remediation (TRSR) at N.J.A.C. 7:26E and S-1070.

3. Florasynth Response:

Soil samples collected for volatile organic analysis under the original, approved Remedial Investigation Workplan (RIW) were collected from acetate tubes driven by a macro core sampler, in accordance with the NJDEP Field Sampling Procedures Manual. Later soil samples collected for volatile organic analysis were collected in accordance with the field procedures for extraction/preservation by methanol extraction using a modified 10cc syringe to obtain the sample from the acetate tube driven by the macro core sampler.

NJDEP Requirements:

NJDEP accepts Florasynth's response.

4. AOC #8: Abandoned 20,000-Gallon No. 4 Fuel Oil UST

NJDEP Requirements:

NJDEP conditionally accepts Florasynth's responses. Florasynth shall explain what all the dashed lines mean in the figure in Attachment G.

5. **AOC #10: Spill Containment Tanks**

NJDEP Requirements:

NJDEP accepts Florasynth's responses for AOC #10.

NJDEP accepts Florasynth's response concerning Attachment J.

NJDEP reviewed the Analytical Data Report prepared by Integrated Analytical Laboratories, LLC., New Jersey Certified Lab # 14751. The data packages were complete. The results are acceptable as presented.

NJDEP conditionally accepts Florasynth's response in Attachment K. Florasynth should include the Polycyclic Aromatic Hydrocarbons (PAH's), whose concentration exceeded the RDCSCC, that were in post-excavation sample X43-2 in the Deed Notice.

6. **Florasynth Response:**

Florasynth should not be required to delineate the extent of arsenic at X43-2 and X48-6. Current and historic industrial site uses include flavor and fragrance blending and a winery operation. There is no indication that arsenic or arsenic containing compounds were ever used in these processes. Florasynth does not believe the source of elevated levels of arsenic is associated with any process or specific source at the site and arsenic may be attributable to natural background or historic fill. Further, this area is currently paved and no exposure pathway exists.

NJDEP Requirements:

Arsenic concentrations cannot be attributed to historic fill and natural background. Florasynth shall decide if the contaminant concentration is attributable to natural background or historic fill. Florasynth shall provide a proposal for the arsenic concentrations. Florasynth shall follow the Technical Requirements for Site Remediation (TRSR) at N.J.A.C. 7:26E-3.10 for natural background proposals and N.J.A.C. 7:26E-4.6.

7. **AOC #11: Exterior Storage Area**

NJDEP Requirements:

NJDEP conditionally accepts Florasynth's response. The Revised Figure 6, GP-11, shall be revised to be consistent with Revised Table 2. Specifically, in Figure 6 Revised, GP-11 lists ND sample results for Base Neutrals for soil samples collected at a depth of 2.5-3 feet bgs. In Table 2 Revised, there were no samples collected at a depth of 2.5-3 feet bgs. Therefore, Florasynth is claiming ND results for Base Neutrals for samples which were not collected. Given that during the winter of 1998 the exterior storage area was demolished, and that portions of the existing asphalt pavement were excavated, and that subgrade soils were disturbed to remove concrete footings, Florasynth shall provide a report, including a diagram, of what was removed, along with evidence as to where it was removed.

8. **AOC #12: Former Electrical Transformers**

NJDEP Requirements:

The remediation of the AOC #12: Former Electrical Transformers has been completed at this time. A No Further Action/Covenant Not To Sue will be issued for the industrial establishment at the completion of the ISRA case and after the filing of all applicable institutional controls.

9. AOC #17: Pot Wash Area

Reduced Deliverables QA/QC information is included in Attachment M (bound separately).

NJDEP Requirements:

NJDEP reviewed the Laboratory Data Deliverables in Attachment M. The Analytical Data Reports were prepared by Accredited Laboratories, Inc., New Jersey Certification Number 12007. The Technical Director at Accredited Laboratories, Inc. as of the date of the reports, 7/28/97, was Dr. Yun-shen Lee. Dr. Lee now works in NJDEP/BEMQA/QAS. Paul Nutkowitz conferred with Dr. Lee and he confirmed that the comment "Upgrade to Reduced Package.", September 9, 1997 was his comment. The data packages were complete. The results are acceptable as presented.

NJDEP conditionally accepts Florasynth's response. In Attachment M, AOC#17: Remedial Action Summary, page 2, concerning soils adjacent to the building, "Twelve post-excavation samples were collected from this area. In sample PE-5B, 1,1,2,2-Tetrachloroethane was detected at 11 ppm, exceeding the IGWSCC of 1 ppm; diethylphthalate was detected at 470 ppm, exceeding the IGWSCC of 50 ppm." In addition, "The results of analysis for soil samples A and B revealed levels of diethylphthalate in samples B-1 and B-2 of 91 ppm and 120 ppm respectively, exceeding the IGWSCC of 50 ppm." Since there are still contaminants in the soil underneath the building, in addition to a Deed Notice, Florasynth may be required to remediate the contaminants in the soil based upon the results of ground water sampling and studies.

In Attachment M, AOC#17 Remedial Action Summary, page 1, it states that "The area near F5 was then excavated. ... As the excavation progressed, contamination was observed to migrate along the gravel base of the storm sewer line. ... Additional contamination was visually observed beneath the pipe but could not be accessed until the pipe was relocated." That storm sewer line extended south beyond the edge of the current, existing building. Florasynth shall bore through the asphalt south of the current existing building, down to the depth of the former (or existing) storm sewer pipe and collect soil samples for analysis of Volatile Organic Compounds with Forward Library Search (VOC+10) and Base Neutrals (BN) extractable organics. Florasynth shall also provide NJDEP with a diagram of the current, existing storm sewer lines.

10. AOC #18: Motor Fuel USTs

NJDEP Requirements:

The remediation of the AOC #18: Motor Fuel USTs has been completed at this time. A No Further Action/Covenant Not To Sue will be issued for the industrial establishment at the completion of the ISRA case and after the filing of all applicable institutional controls.

IL Ground Water Comments

A. Remedial Action Workplan

1. **AOC #8: (20,000-Gallon Fuel Oil UST) and AOC #16: (Ground Water)**

In 1997, four passively-placed narrow diameter points (PPNDP), GP-25, GP-32, GP-34, and GP-35 were driven in Geoprobe borings to determine the impacts of the former 20,000-Gallon UST on groundwater quality. Analytical results revealed that benzene exceeded its 1 ppb GWQS in GP-25 (3 ppb), and bis (2-ethylhexyl) pthalate was found above its 30 ppb GWQS in GP-32 (39 ppb) and in GP-34 (870 ppb). VOC Tentatively Identified Compounds (TICs) were identified at a concentration of 1,161 ppb in GP-25, and BN TICs were identified at a concentration of 1,504 ppb, 2,209 ppb, and 5,720 ppb in GP-25, GP-34, and GP-35, respectively.

Proposal

Florasynth states that the contamination appears to be localized to the vicinity of the former UST. Since the UST system and contaminated soils were removed, concentrations in ground water can be expected to attenuate over time. Florasynth considers the perched water encountered in the PPNDPs is "trapped water" which is not considered a true aquifer. The varved silts and clays act as an aquitard and prevent vertical migration of any contaminants in the perched zones to underlying aquifer units.

NJDEP Requirements

NJDEP would like to clarify that ground water includes perched water, and that the ground water quality criteria in N.J.A.C. 7:9-6 apply to <u>all</u> ground water without distinction as to whether or not that ground water is perched. Although remedial decisions for contaminated ground water are based largely on the risks posed to potential receptors, the nature and extent of contamination must be delineated and a CEA must be designated for the impacted area.

As noted above, with the exception of the PPNDP sampling effort, no ground water investigation has been conducted at this site to date. It should also be noted PPNDPs are considered field screening tools, and that, per the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, field screening data must be <u>confirmed by data from monitor wells</u> installed and constructed in accordance with N.J.A.C. 7:26E-4.4(g) and the specifications in Appendix 7-1 of the 1992 *Field Sampling Procedures Manual*. The samples obtained from PPDNP are generally far more turbid than samples collected from properly developed monitor wells, which may result in sample analyses that are biased high, particularly for compounds that have a high affinity for soils (e.g., metals and base neutrals). Even though the source of the contamination has been removed and remaining dissolved contamination can be expected to attenuate over time, <u>verification of the contaminants present and their concentrations</u> is needed so that this data can be used to <u>designate a CEA</u> for the impacted ground water. Florasynth shall propose a location for a permanent monitor well in the vicinity of the former 20,000-gallon UST in accordance with N.J.A.C. 7:26E-4.4(f). This well shall be sampled for VOC +10 and BN +15. If this sampling confirms the presence of elevated TICs, Florasynth shall address the TICS pursuant to N.J.A.C. 7:26E-2.1(e).

2. **AOC #10: (Spill Containment Tanks)**

Three spill containment USTs connected to floor drainage systems within the facility are/were designed to intercept and contain accidental spills. Two of these tanks (10b and 10c) are still in place but closure under approved plans will be conducted in the future. The rear spill containment UST tank (10a) was closed by removal during October 1997. Soil borings in the vicinity of tanks 10b and 10c did not identify any exceedences of the NJDEP soil cleanup criteria. Pre-excavation soil borings performed near tank 10a revealed methylene chloride above its IGWSCC of 1 ppm at concentrations ranging from 2.3 – 17 ppm in three soil samples. These samples ranged in depth from 0.5 – 5 feet below grade. The tank bottom was

4.5 feet below ground surface. and excavation reportedly was conducted to a depth of 6 feet. No ground water sampling was conducted for AOC #10a.

Proposal

In a previous report, Florasynth stated that the rear spill containment UST was successfully closed and associated contaminated soils were removed. In the March 6, 2000 RAW, additional information/clarification regarding the soil sampling is provided but no recommendations are made for a groundwater investigation.

NJDEP Comments

Although the tank and associated contaminated soils have been removed, exceedences of the IGWSCC for methylene chloride during the RI boring program were identified, and groundwater sampling is required to determine whether ground water has been impacted. Although groundwater apparently was not encountered in the excavation area, the depth of the excavation is about 6 feet below grade, and perched ground water may exist below this depth. Perched water was encountered in about 20 borings installed near AOC #8, which is located approximately 30 feet northeast of tank 10a.

Florasynth shall obtain ground water samples proximate to former tank 10a and analyze the samples for VOC +10 and BN +15. Florasynth may use PPNDP to conduct the sampling, but is advised that, since a permanent monitor well may be required to verify the results of the field screening, installation of a permanent well at this location may be more prudent. The well screen shall be set at the first water encountered. If Florasynth can demonstrate that at least five feet of clay is present in this location between the bottom of the excavation (6 feet below grade) and first water, a ground water sample will not be required.

3. AOC #11: Exterior Storage Area

A storage pad area located on the paved surface of a parking lot was used for storage of miscellaneous items including storage containers. A large Above Ground Storage Tank (AST) containing propylene glycol was also located in this area. Staining had been observed on the pavement overlying the storage pad, and a series of soil borings were conducted during the RI and following demolition of the storage pad area, which included removal of the AST. A strong pungent odor had been observed when soil disturbance associated with demolition occurred. Soil samples were analyzed for VOs and BNs; no exceedences of the IGWSCC were identified. Florasynth believes that BNs above the RDCSCC are attributable to the asphalt and fill material in this area. Ground water was not encountered in soil borings obtained in this area.

Proposal

No proposals concerning ground water investigation are included in the RAW.

NJDEP Comments

Since no IGWSCC were exceeded during the soil sampling efforts, ground water sampling in this area is not required.

4. AOC #12: (Former Electrical Transformers)

The former electrical transformers were located exterior to the south side of the building adjacent to the maintenance area, north of AOC #10a and west of AOC #8. The transformers had been removed prior to the RI and replaced with a new electric supply system. Soil sampling was conducted in this area, and a PPNDP was driven into boring GP-35 and analyzed for TPHC and BN+15 analyses to delineate petroleum contamination associated with the former 20,000 -Gallon #4 Fuel Oil UST (AOC #8). Ground water was not encountered initially in the soil boring and was observed to seep into the boring slowly from beneath the concrete slab. No exceedences of the soil cleanup criteria were found in the borings; ground water samples from the PPNDP (GP-35) did not disclose any targeted compounds above the GWQS. BN TICs believed to be associated with the degradation of fuel from AOC #8 were detected in the ground water sample.

Proposal

Florasynth believes that no additional sampling and analysis is needed for this area.

NJDEP Comments

No additional ground water investigation is necessary for this AOC since no IGWSCC were exceeded during the soil boring program, and the BN TICS identified in the PPNDP sampling are associated with AOC #8.

5. AOC #17: (Pot Wash Area)

During construction of a building addition, four pipes leading from the pot wash area inside the building to the building exterior were uncovered during excavation. Potentially contaminated soils observed at two locations were field screened, excavated, and stockpiled on-site. The discharges were believed to originate from the pot washing room, and pot washing operations were discontinued and measures implemented to cease the discharge.

About 5,520 tons of soil were excavated to a depth of about 5 feet and transported off-site as non-hazardous waste. No ground water was observed in the excavation. Because of the proximity to the building foundation, it was determined that additional soils could not be excavated without compromising the integrity of the building. Additional soils were collected for analysis to document the concentrations of contaminants in soils left in place. The contamination was found to be flavor and/or fragrance oils, similar in appearance to petroleum products. Post-excavation samples were analyzed for Total Petroleum Hydrocarbons (TPHC) and the samples with the highest TPHC results were also analyzed for VOCs. All samples were analyzed for BNs.

In several post-excavation samples collected adjacent to the building, exceedences of IGWSCC were identified. In sample PE-5B, 1,1,2,2-tetrachloroethane was detected at 11 ppm (IGWSCC = 1 ppm), and diethylphthalate was detected at 470 ppm (IGWSCC = 50 ppm). Sample results for soil samples A and B revealed diethylphthlate in samples B-1 and B-2 of 91 ppm and 120 ppm, respectively.

Proposal

Florasynth had previously proposed no further cleanup activities since the post-excavation soil samples had levels only slightly above NJDEP's soil cleanup criteria. No groundwater investigation was proposed previously or in the March 7, 2000 RAW. Florasynth states that a clay layer exists at about 5 feet below ground surface, which will minimize infiltration of remaining contaminants.

NJDEP Comments

Since soil sampling performed adjacent to the building reveal exceedences of IGWSCC and it is likely that IGWSCC are exceeded beneath the building where additional excavation will not be conducted, ground water sampling is required to verify whether this AOC has impacted ground water quality. Florasynth shall sample ground-water within 10 feet of this AOC and shall analyze the samples for VOC +10 and BN +15. Florasynth may use PPNDP to conduct the sampling, but is advised that, since contaminated soils are proposed to be left in place beneath the building, installation of a permanent well at this location will be required; therefore, installation of a permanent well in lieu of a PPNDP at this time may be more prudent. The well shall be installed and constructed in accordance with N.J.A.C. 7:26E-4.4(g) and the specifications in Appendix 7-1 of the 1992 *Field Sampling Procedures Manual*. The well screen shall be set at the first water encountered.

6. AOC #18: (Motor Fuel USTs)

Four motor fuel USTs were identified during construction activities conducted at the site during the winter of 1997 – 1998. Liquids sampled from the USTs suggest that the UST system formerly contained leaded gasoline. The capacity of the tanks ranged from 1,500 – 3,000-Gallons, and depths ranged from 8.5 – 9 feet below ground surface (bgs). The tanks were closed in 1998 under approved closure plans. Corrosion holes were observed in each of the UST systems. Groundwater was not observed in any of the excavations. Pre- and post-excavation soil samples did not identify any contaminants of concern exceeding NJDEP's soil cleanup criteria.

Proposals

No ground water investigation is proposed.

NJDEP Comment

Since no IGWSCC were identified during the soil sampling effort, and groundwater was not encountered in the excavations or the borings, no groundwater investigation is necessary for this AOC.

B. Ground Water Conditions

In its January 3, 2000 response letter, NJDEP had directed Florasynth to address the groundwater contamination identified in the PPNDP near AOC #8 and to substantiate that the varved silts and clays are of sufficient depth to preclude vertical migration of the contaminants from this and other AOCs to underlying aquifers.

Proposal

Florasynth response is that, since ground water is perched, no additional groundwater investigation is needed. Florasynth does not consider perched water to be true ground water. Since most sources have been removed, and the amounts of VOCs and BNs detected in the perched water near AOC #8 are minor and limited in extent, no additional work is warranted. Florasynth references the logs included in the Attachment P as sufficient evidence that the varved silts and clays pose a barrier to vertical contaminant migration.

NJDEP Comments

Comments concerning groundwater investigation at specific AOCs are included in the section above. NJDEP reiterates that perched water is considered ground water, and that the presence, nature, and extent of contamination attributable to site operations must be determined so that a CEA can be designated for the impacted ground water.

The location of the 281-foot dispersion well referenced in the RAW shall be indicated on a map. Additionally, Florasynth proposes to seal the two wells on-site in accordance with NJDEP regulations. NJDEP assumes that these are the two wells located near the northeastern corner of the property, and that they are not monitoring wells. Clarification regarding this issue shall be provided.

III. General Requirements

1. Pursuant to the referenced Remediation Agreement, Florasynth, Inc. shall perform all actions as outlined in the RIW, and conditioned in this letter. If any change in methods outlined in the RIW is necessary, Florasynth, Inc. shall inform BEECRA in writing prior to implementation.

2. Florasynth, Inc. shall submit summarized analytical results in accordance with the Technical Requirements For Site Remediation (TRSR), N.J.A.C. 7:26E.

3. Florasynth, Inc. shall submit the results or additional work plans, in triplicate. Please note that only one copy of the Quality Assurance/Quality Control Deliverables is needed.

4. Florasynth, Inc. shall notify the Case Manager at least 14 calendar days prior to implementation of all field activities included in the RIW. If Florasynth, Inc. fails to initiate sampling in accordance with the approved schedule, any request for an extension may be denied.

5. Florasynth, Inc. shall collect and analyze all samples in accordance with the sampling protocol outlined in the most current edition of the NJDEP's "Field Sampling Procedures Manual" and Technical Requirements for Site Remediation (TRSR), N.J.A.C. 7:26E.

6. Florasynth, Inc. shall submit a revised schedule, pursuant to N.J.A.C. 7:26E-6.5, for NJDEP approval which includes all tasks associated with the remediation of the site within thirty (30) calendar days of the receipt of this letter.

7. Any proposal to leave contaminant concentrations on-site exceeding the NJDEP's current residential cleanup criteria, shall be in accordance with the Technical Requirements for Site Remediation N.J.A.C. 7:26E-5.1 and 5.2. Florasynth, Inc. shall also submit proof of acceptance of the non-residential cleanup criteria by the current property owner.

8. Pursuant to the TRSR, N.J.A.C. 7:26E-3.13(c) 3v, all analytical data shall be presented both as a hard copy and an electronic deliverable using the database format outlined in detail in the current HAZSITE application or appropriate spreadsheet format specified in the NJDEP's electronic data interchange manual.

   For further information related to electronic data submissions, please refer to the Site Remediation Program's (SRP's) home page at the following internet address: **http://www.state.nj.us/dep/srp** The **Regulations and Guidance** page of this web site has a section dedicated to HazSite which includes downloadable files, an explanation of how to use these files to comply with the NJDEP's requirements, the SRP's Electronic Data Interchange (EDI) manual, and **Guidance for the Submission and Use of Data In GIS Compatible Formats Pursuant to "Technical Requirements for Site Remediation"**.

If you have any questions, please contact the Case Manager, Sylvia Pearce, at (609) 633-1414.

Sincerely,

Lois Arbegast

Lois Arbegast, Supervisor
Bureau of Environmental Evaluation,
Cleanup and Responsibility Assessment

C: Paul Nutkowitz, NJDEP/BEERA
Derek Carano, NJDEP/BGWPA
Elizabeth Fernandez-Obergon, NJDEP/BGWPA
Mark Guarino, Bergen County Health Officer
Jack Friedman, Florasynth Inc.

State of New Jersey
Department of Environmental Protection

DONALD T. DIFRANCESCO
Acting Governor

Robert C. Shinn, Jr.
Commissioner

Suzanne M. Avena
Paul, Hastings, Janofsky and Walker LLP.
75 East 55th Street
New York, New York 10022-3205

AUG 28 2001

Re: Remediation Agreement In the Matter of Florasynth, Inc.
Florasynth, Inc. (Florasynth)
Teterboro, Bergen County
ISRA #E95108
Proposed Sampling Locations dated August 20, 2001

Dear Ms. Avena:

The New Jersey Department of Environmental Protection (NJDEP) has completed its review of the above document, please see below for comments and requirements.

I. Soils

A. AOC-8

Florasynth shall provide a scaled diagram of the aboveground and underground utilities and other permanent fixtures within the concrete-paved area that makes drilling in the area arduous. NJDEP would then be able to understand why samples could only be collected at certain boring locations.

B. AOC-10a

Florasynth shall determine if soil boring location X43-2 and X44-5 are in the same location or different locations. Should X44-5 represent a different boring location than X43-2, Florasynth shall vertically delineate location X43-2. Florasynth shall horizontally delineate boring location X43-2 to the North, West and East.

Florasynth shall vertically delineate soil boring location X48-6 and horizontally delineate to the North, South and East. The delineation point East of X43-2 and North of X48-6 can be in the same location with a minimum of two samples taken, one at the 2.0-2.5 feet bgs and one at 6.0-6.5 ft bgs.

Soil samples collected for lateral delineation should be collected at the same depth bgs as the sample that is being laterally delineated.

C. AOC-17

Florasynth's proposed sampling location, south southwest of AOC 17 is acceptable. The depth below ground surface (bgs) of sample collection is not identified, but it should correspond to the depth of the bottom of the (former) storm sewer pipe. Since analysis shall be for VOCs+10, a coring device for collection is required.

II. Groundwater

A. AOC #8

NJDEP questions why well points are being installed at this time when well point sampling conducted in 1997 showed that dissolved contaminants were present in ground water above the GWQS. In its April 23, 2001 letter, NJDEP had required confirmation of the well point data with the installation and sampling of a permanent monitor well. If it is Florasynth's intention to conduct temporary well point sampling to confirm whether contaminants are still present (the tank and associated contaminated soils were removed) prior to installing a permanent well, then one temporary well shall also be installed to the northeast of this AOC (it may be necessary to install this well within the General Warehouse building). Since groundwater flow direction is unknown, this additional well would intercept groundwater possibly flowing beneath this AOC in a northeasterly direction.

B. AOC 10A

Florasynth proposes to advance one of the soil borings to a depth of about 12 feet bgs to determine whether at least five feet of clay are present between the bottom of the former tank excavation (~ 6 feet bgs) and ground water. Florasynth should be informed that the boring is not to be advanced to this depth directly within the excavation. The deeper boring shall be advanced in a location proximate to, but not within, this AOC. This is to minimize the potential for vertical migration of any contaminants that may be present in the AOC during the boring program.

If the deep boring does not confirm that at least 5 feet of clay is present beneath the base of the tank excavation, then a well shall be installed within the excavation area, per N.J.A.C. 7:26E-4.4(e)1. If well installation directly within the excavation is not possible, then three PPDNP shall be installed within 10 feet of this AOC to the west, south, and east. The purpose of the three well locations is to account for the fact that groundwater flow direction is unknown. Groundwater samples shall be analyzed for VOC +10 and for BN + 15, per NJDEP's April 23, 2001 letter.

C. AOC #17

In addition to the proposed PPDNP locations, one temporary well should also be installed in each of the following locations:

- ~ 40 feet north of the well proposed to the northwest of the AOC;
- ~ 40 feet south of the well proposed to the northwest of the AOC;
- ~ 40 feet west of the ground water/soil sampling location proposed to the south of the AOC;
- East of the potwash area (approximately on a line across from the well to the northwest of this AOC) in the pilot plant area, assuming access to this area and installation of a temporary well by a small Geoprobe, Hydropunch, etc. is not precluded by the presence of utilities, underground piping/cable in this area; and
- ~ 40 feet north of the well to be installed inside the pilot plant area.

Florasynth should be advised that NJDEP is requiring a number of sampling locations due to the fact that no information has been presented to indicate a direction of ground water flow, and soils contaminated above the IGWSCC (a continuing source) are going to remain beneath the building.

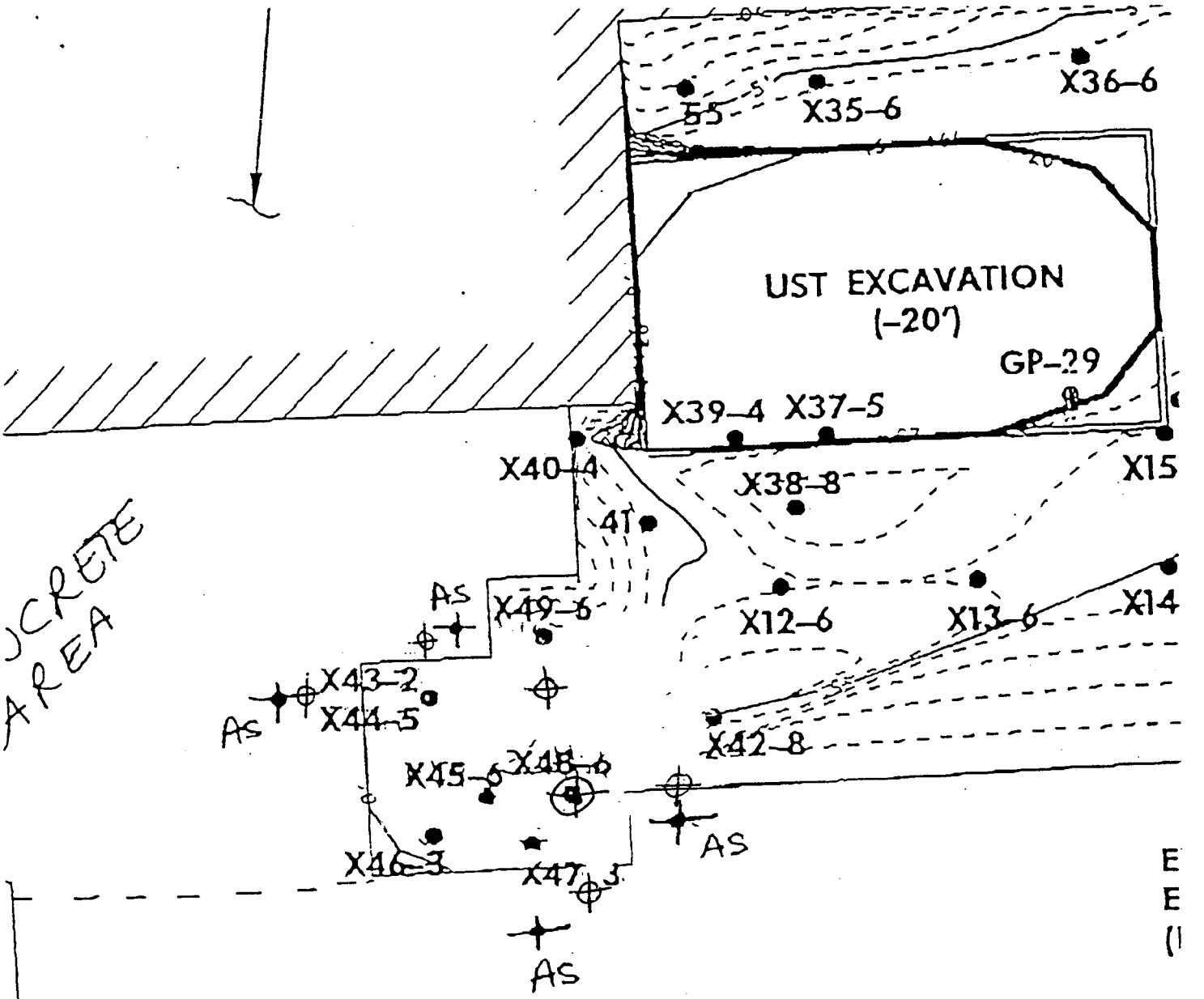
If you have any questions, please contact the Case Manager, Sylvia Pearce, at (609) 633-1414.

Sincerely,

Lois Arbegast

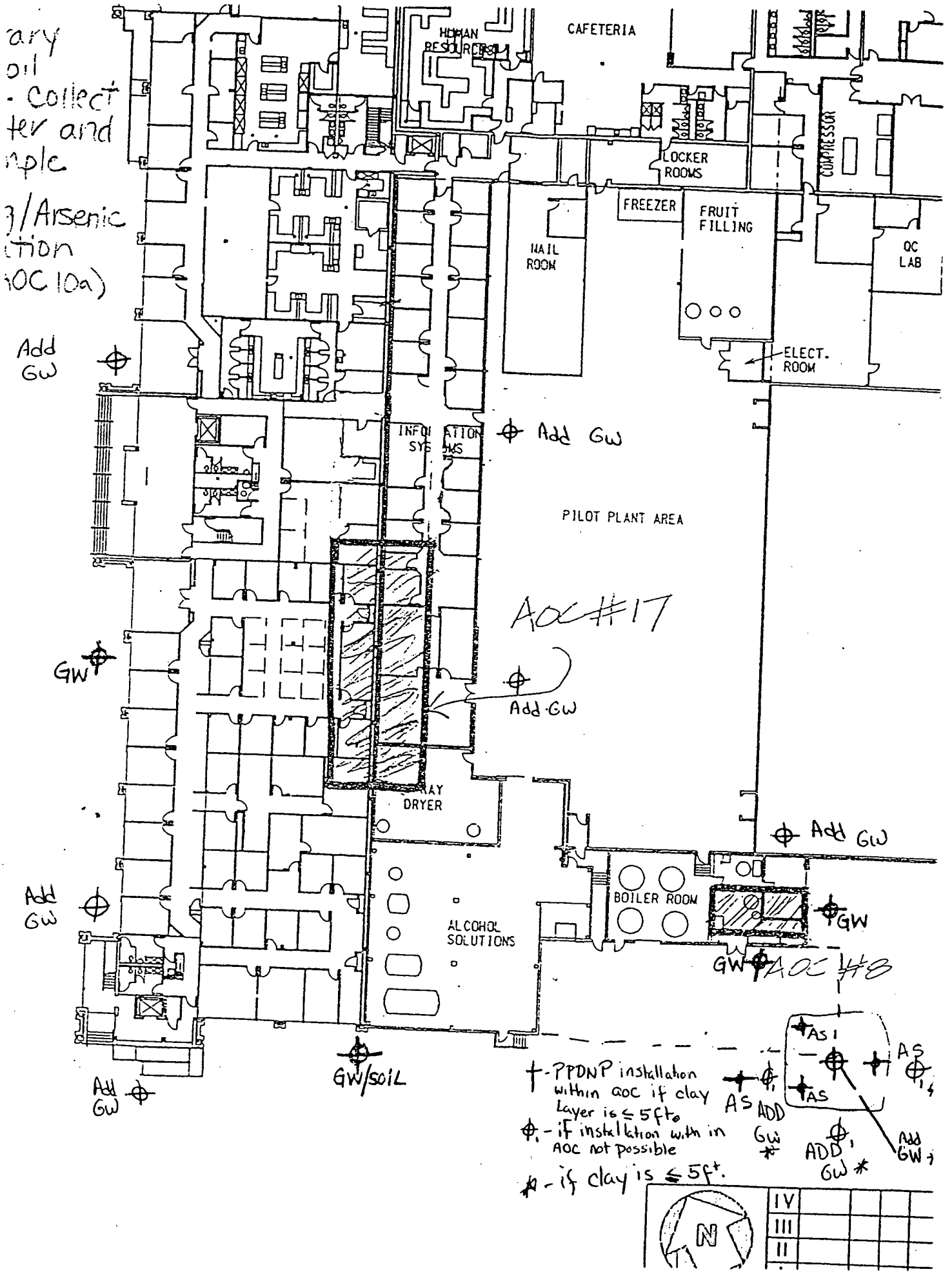
Lois Arbegast, Supervisor
Bureau of Environmental Evaluation,
Cleanup and Responsibility Assessment

C: Paul Nutkowitz, NJDEP/BEERA
Elizabeth Fernandez-Obergon, NJDEP/BGWPA
Mark Guarino, Bergen County Health Officer
Jack Friedman, Florasynth Inc.
Mark Fischer, Environmental Liability Management, Inc.



soil sampling delineation points.

ap is not to scale ~ Locations
posed soil borings are approximate.



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CAFETERIA
LOCKER ROOMS
COMPRESSOR
FREEZER
FRUIT FILLING
MAIL ROOM
QC LAB
ELECT. ROOM
Add GW
INFORMATION SYSTEMS
Add GW
PILOT PLANT AREA
AOC #17
GW
Add GW
DRYER
Add GW
BOILER ROOM
GW
ALCOHOL SOLUTIONS
GW
AOC #8
Add GW
GW/SOIL
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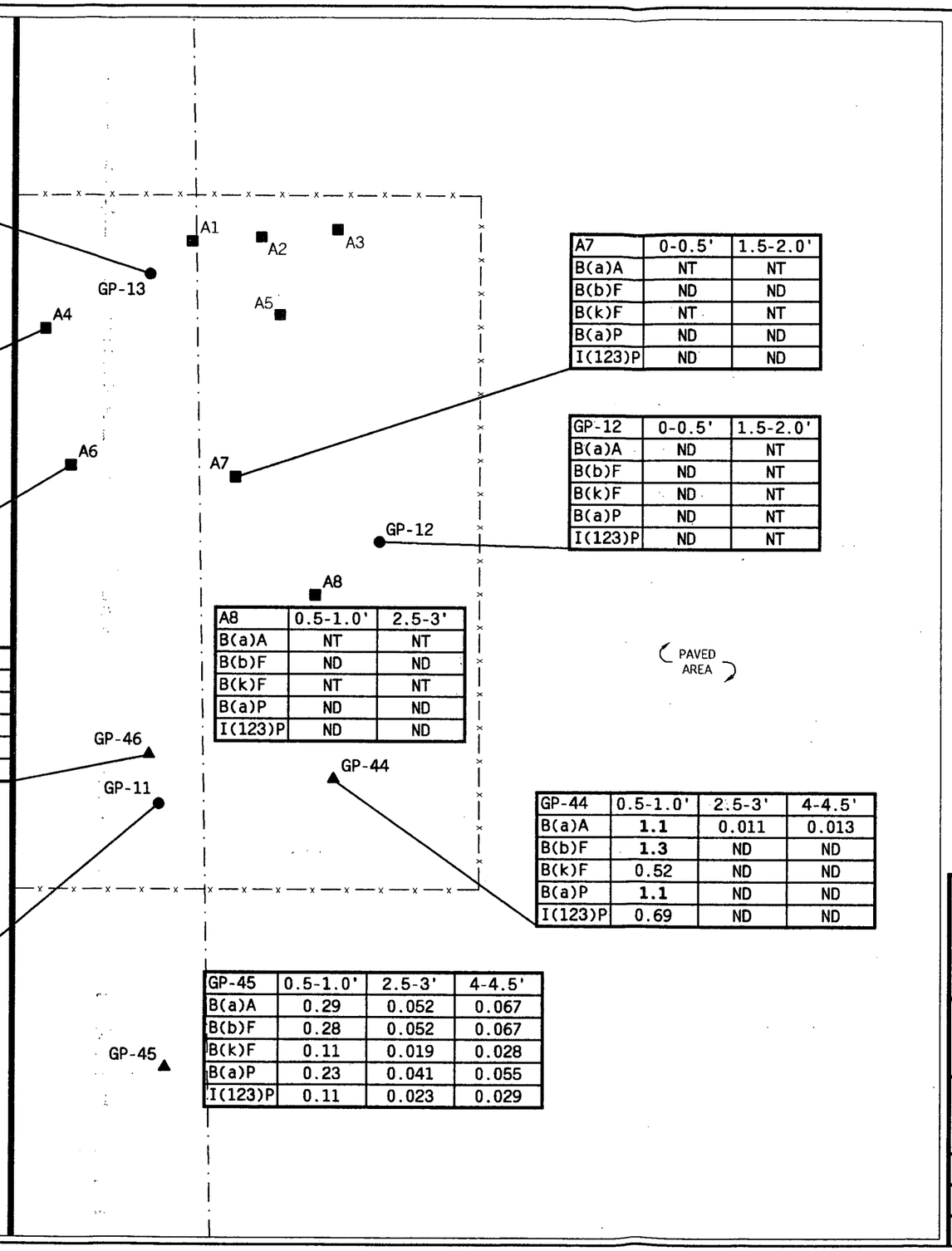
† - PPDNP installation within aoc if clay layer is ≤ 5ft.
⌖ - if installation with in AOC not possible
* - if clay is ≤ 5ft.
N
IV
III
II

ATTACHMENT B

AOC #11: Exterior Storage Area – Revised Soil Sampling Location Plan and Summary Data Table



GP-13	0.5-1.0'	2.5-3'
B(a)A	ND	NT
B(b)F	ND	NT
B(k)F	ND	NT
B(a)P	ND	NT
I(123)P	ND	NT

A4	0.5-1.0'	2.5-3'
B(a)A	NT	NT
B(b)F	0.29	ND
B(k)F	NT	NT
B(a)P	0.018	ND
I(123)P	0.013	ND

A6	0.5-1.0'	2.5-3'
B(a)A	NT	NT
B(b)F	ND	ND
B(k)F	NT	NT
B(a)P	ND	ND
I(123)P	ND	ND

A7	0-0.5'	1.5-2.0'
B(a)A	NT	NT
B(b)F	ND	ND
B(k)F	NT	NT
B(a)P	ND	ND
I(123)P	ND	ND

GP-12	0-0.5'	1.5-2.0'
B(a)A	ND	NT
B(b)F	ND	NT
B(k)F	ND	NT
B(a)P	ND	NT
I(123)P	ND	NT

A8	0.5-1.0'	2.5-3'
B(a)A	NT	NT
B(b)F	ND	ND
B(k)F	NT	NT
B(a)P	ND	ND
I(123)P	ND	ND

GP-46	0.5-1'	2.5-3'	4-4.5'
B(a)A	**3.7**	0.016	0.0095
B(b)F	**3.9**	0.012	ND
B(k)F	**1.6**	ND	ND
B(a)P	**3.1**	0.0089	ND
I(123)P	**1.9**	ND	ND

GP-11	0-0.5'	1.5-2.0'
B(a)A	**2**	NT
B(b)F	**1.7**	NT
B(k)F	**1.5**	NT
B(a)P	**1.8**	NT
I(123)P	**0.94**	NT

GP-44	0.5-1.0'	2.5-3'	4-4.5'
B(a)A	**1.1**	0.011	0.013
B(b)F	**1.3**	ND	ND
B(k)F	0.52	ND	ND
B(a)P	**1.1**	ND	ND
I(123)P	0.69	ND	ND

GP-45	0.5-1.0'	2.5-3'	4-4.5'
B(a)A	0.29	0.052	0.067
B(b)F	0.28	0.052	0.067
B(k)F	0.11	0.019	0.028
B(a)P	0.23	0.041	0.055
I(123)P	0.11	0.023	0.029

LEGEND

- GP-11 ● SOIL BORING LOCATION AND ID (6/14/95 MCLAREN HART)
- GP-44 ▲ SOIL BORING LOCATION AND ID (7/31/97 BAKER ENVIRONMENTAL, INC.)
- A7 ■ SOIL BORING LOCATION AND ID (4/27/98 BAKER ENVIRONMENTAL, INC.)
- A1 ■ SOIL BORING LOCATION AND ID (4/27/98 BAKER ENVIRONMENTAL, INC. - SAMPLES NOT TESTED)
- — · — · — SANITARY SEWER SYSTEM
- —x—x— FENCE

A7	0-0.5'	BORING ID AND SAMPLING DEPTH IN FEET
B(a)A	NT	BENZO(a)ANTHRACENE RESULT IN mg/kg.
B(b)F	ND	BENZO(b)FLUORANTHENE RESULT IN mg/kg.
B(k)F	NT	BENZO(k)FLUORANTHENE RESULT IN mg/kg.
B(a)P	ND	BENZO(a)PYRENE RESULT IN mg/kg.
I(123)P	ND	IDENO(1,2,3-cd)PYRENE RESULT IN mg/kg.

NT NOT TESTED
ND NOT DETECTED

NOTES:

1) FIGURE PREVIOUSLY KNOWN AS "FIGURE 6 REVISED".
2) ONLY COMPOUNDS THAT EXCEED APPLICABLE NJDEP SOIL CLEANUP CRITERIA (SCC) ARE SHOWN.
3) **BOLD RESULTS EXCEED APPLICABLE NJDEP SCC.**

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

0 10 20

SCALE: 1" = 10'

TITLE:

ATTACHMENT B

SOIL SAMPLING DATA OBTAINED AT AREA OF CONCERN #11
EXTERIOR STORAGE AREA

LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 12/28/01

FILENAME: 201162_DATA

LAYOUT: ATTACH_A

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

Attachment B
Summary of Soil Sampling Data at AOC #11 - Exterior Storage Area
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP			A7S1		A7S2		A8S1		A8S2		GP44S1		GP44S2		GP44S3		GP45S1		GP45S2		GP45S3		GP46S1		GP46S2		GP46S3	
Laboratory ID	Soil Cleanup Criteria			57427		57428		57429		57430		14872		14873		14874		14875		14876		14877		14878		14879		14880	
Sample Media	Residential	Non-Residential	Impact to	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Sample Date	Direct	Direct	Ground	4/27/98		4/27/98		4/27/98		4/27/98		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Sample Depth	Contact	Contact	Water	3.5-4'		7.5-8'		3.5-4'		7.5-8'		0.5-1'		2.5-3'		4-4.5'		0.5-1.0'		2.5-3'		4-4.5'		0.5-1.0'		2.5-3.0'		4-4.5'	
Unit of Measure	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Volatile Organic Compounds																													
Acetone	1,000	1,000	100	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
2-Butanone	1,000	1,000	50	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Toluene	1,000	1,000	500	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Ethylbenzene	1,000	1,000	100	0.14	U	0.16	U	0.13	U	0.16	U	NT		NT		NT		NT		NT		NT		NT		NT		NT	
Xylene (total)	410	1,000	10	0.14	U	0.16	U	0.13	U	0.16	U	NT		NT		NT		NT		NT		NT		NT		NT		NT	
Semivolatile Organic Compounds																													
Naphthalene	230	4,200	100	2	U	0.43	U	0.39	U	0.42	U	0.1		0.02	U	0.02	U	0.018	U	0.019	U	0.019	U	0.026	J	0.02	U	0.02	U
Acenaphthylene	NS	NS	NS	NT		NT		NT		NT		0.019	J	0.02	U	0.02	U	0.02		0.019	U	0.019	U	0.25		0.02	U	0.02	U
Acenaphthene	3,400	10,000	100	NT		NT		NT		NT		0.24		0.02	U	0.02	U	0.088		0.011	J	0.013	J	0.47		0.02	U	0.02	U
Fluorene	2,300	10,000	100	NT		NT		NT		NT		0.22		0.02	U	0.02	U	0.12		0.016	J	0.018	J	0.67		0.02	U	0.02	U
Phenanthrene	NS	NS	NS	2	U	0.43	U	0.39	U	0.42	U	2.1		0.02	U	0.02	U	0.81		0.11		0.14		5.9		0.02	U	0.02	U
Anthracene	10,000	10,000	100	NT		NT		NT		NT		0.58		0.02	U	0.02	U	0.2		0.028		0.039		1.6		0.02	U	0.02	U
Fluoranthene	2,300	10,000	100	2	U	0.43	U	0.39	U	0.0099	J	2.9		0.02	U	0.015	J	0.83		0.13		0.18		7.8		0.018	J	0.02	U
Pyrene	1,700	10,000	100	2	U	0.43	U	0.39	U	0.0093	J	2.5		0.02	U	0.012	J	0.66		0.1		0.14		6.9		0.015	J	0.02	U
Benzo(a)anthracene	0.9	4	500	NT		NT		NT		NT		**1.1**		0.011	J	0.013	J	0.29		0.052		0.067		**3.7**		0.016	J	0.0095	J
Chrysene	9	40	500	2	U	0.43	U	0.39	U	0.42	U	1.2		0.02	U	0.02	U	0.32		0.05		0.068		4.1		0.0088	J	0.02	U
Bis(2-ethylhexyl)phthalate	NS	NS	NS	2	U	0.43	U	0.39	U	0.42	U	0.15	J	0.16	J	0.28	J	0.12	J	0.085	J	0.59		0.73	U	0.41	U	0.72	
Benzo(b)fluoranthene	0.9	4	50	0.1	U	0.022	U	0.02	U	0.021	U	**1.3**		0.02	U	0.02	U	0.28		0.052		0.067		**3.9**		0.012	J	0.02	U
Benzo(k)fluoranthene	0.9	4	500	NT		NT		NT		NT		0.52		0.02	U	0.02	U	0.11		0.019		0.028		**1.6**		0.02	U	0.02	U
Benzo(a)pyrene	0.66	0.66	100	0.1	U	0.022	U	0.02	U	0.021	U	**1.1**		0.02	U	0.02	U	0.23		0.041		0.055		**3.1**		0.0089	J	0.02	U
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.1	U	0.022	U	0.02	U	0.021	U	0.69		0.02	U	0.02	U	0.11		0.023		0.029		**1.9**		0.02	U	0.02	U
Dibenz(a,h)anthracene	0.66	0.66	100	NT		NT		NT		NT		0.14		0.02	U	0.02	U	0.045		0.019	U	0.019	U	0.52		0.02	U	0.02	U
Benzo(ghi)perylene	NS	NS	NS	NT		NT		NT		NT		0.69		0.02	U	0.02	U	0.11		0.021		0.028		1.5		0.02	U	0.02	U
Di-n-octylphthalate	1,100	10,000	100	2	U	0.43	U	0.39	U	0.42	U	NT		NT		NT		NT		NT		NT		NT		NT		NT	
Carbazole	NS	NS	NS	NT		NT		NT		NT		NT		NT		NT		NT		NT	U	NT		NT		NT		NT	
Butylbenzylphthalate	1,100	10,000	100	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Total TICs	NS	NS	NS	833.8		118.3		ND		4.59		23.58		0.75		0.34		0.69		0.32		ND		31.93		177.68		14.74	
Alcohols																													
Methanol	NS	NS	NS	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Ethanol	NS	NS	NS	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria

*Table Previously known as Table 2 Revised and Table II

Notes:
NS = No Standard
NT = Not Tested
NR = Not Reported
ND = Not Detected
U = Not detected above indicated value
J = Estimated concentration

Attachment B
Summary of Soil Sampling Data at AOC #11 - Exterior Storage Area
Former Florasynth, Inc. Facility
300 North Street
Teterboro, New Jersey

Sample ID	NJDEP			GP-11		GP-11		GP-12		GP-12		GP-13		GP-13		FB-01		FB-02		TB-02		A4S1		A4S2		A6S1		A6S2	
Laboratory ID	Soil Cleanup Criteria			12023-013		12023-014		12023-015		12023-016		12023-017		12023-018		12023-009		12023-025		12023-026		57421		57422		57425		57426	
Sample Media	Residential	Non-Residential	Impact to	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Sample Date	Direct	Direct	Ground	6/14/95		6/14/95		6/14/95		6/14/95		6/14/95		6/14/95		6/13/95		6/14/95		6/14/95		4/27/98		4/27/98		4/27/98		4/27/98	
Sample Depth	Contact	Contact	Water	0-0.5'		1.5-2.0'		0-0.5'		1.5-2.0'		0-0.5'		1.5-2.0'		---		---		---		3.5-4'		7.5-8'		3.5-4'		7.5-8'	
Unit of Measure	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Volatile Organic Compounds																													
Acetone	1,000	1,000	100	NT		1.5		NT		0.14		NT		0.17		NR		0.1	U	0.1	U	NT		NT		NT		NT	
2-Butanone	1,000	1,000	50	NT		0.07		NT		0.1	U	NT		0.1	U	NR		0.1	U	0.1	U	NT		NT		NT		NT	
Toluene	1,000	1,000	500	NT		0.0066		NT		0.005	U	NT		0.005	U	NR		0.005	U	0.005	U	NT		NT		NT		NT	
Ethylbenzene	1,000	1,000	100	NT		NT		NT		NT		NT		NT		NR		NT		NT		0.089	J	0.15	U	0.15	U	0.16	U
Xylene (total)	410	1,000	10	NT		NT		NT		NT		NT		NT		NR		NT		NT		0.16		0.15	U	0.15	U	0.16	U
Semivolatile Organic Compounds																													
Naphthalene	230	4,200	100	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.046	J	0.43	U	0.39	U	0.43	U
Acenaphthylene	NS	NS	NS	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Acenaphthene	3,400	10,000	100	0.13	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Fluorene	2,300	10,000	100	NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT		NT	
Phenanthrene	NS	NS	NS	1.6		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.022	J	0.43	U	0.015	J	0.43	U
Anthracene	10,000	10,000	100	0.47	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Fluoranthene	2,300	10,000	100	3.2		NT		0.44	U	NT		0.061	J	NT		NR		0.01	U	NR		0.041	J	0.43	U	0.39	U	0.43	U
Pyrene	1,700	10,000	100	3.9		NT		0.44	U	NT		0.075	J	NT		NR		0.01	U	NR		0.037	J	0.43	U	0.39	U	0.43	U
Benzo(a)anthracene	0.9	4	500	**2**		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Chrysene	9	40	500	2.4		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.024	J	0.43	U	0.39	U	0.43	U
Bis(2-ethylhexyl)phthalate	NS	NS	NS	0.18	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.41	U	0.43	U	0.15	J	0.43	U
Benzo(b)fluoranthene	0.9	4	50	**1.7**		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.029		0.021	U	0.02	U	0.021	U
Benzo(k)fluoranthene	0.9	4	500	**1.5**		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Benzo(a)pyrene	0.66	0.66	100	**1.8**		NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.018	J	0.021	U	0.02	U	0.021	U
Indeno(1,2,3-cd)pyrene	0.9	4	500	**0.94**	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		0.013	J	0.021	U	0.02	U	0.021	U
Dibenz(a,h)anthracene	0.66	0.66	100	0.5	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Benzo(ghi)perylene	NS	NS	NS	0.76	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Di-n-octylphthalate	1,100	10,000	100	NT		NT		NT		NT		NT		NT		NT		NT		NT		0.41	U	0.43	U	0.13	U	0.43	U
Carbazole	NS	NS	NS	0.13	J	NT		0.44	U	NT		0.41	U	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Butylbenzylphthalate	1,100	10,000	100	1.2	U	NT		0.44	U	NT		0.043	J	NT		NR		0.01	U	NR		NT		NT		NT		NT	
Total TICs	NS	NS	NS	NR		NT		NR		NT		NR		NT		NR		NR		NR		259.4		ND		0.33		ND	
Alcohols																													
Methanol	NS	NS	NS	NT		5	U	NT		5	U	NT		5	U	NR		5	U	5	U	NT		NT		NT		NT	
Ethanol	NS	NS	NS	NT		5	U	NT		5	U	NT		5	U	NR		5	U	5	U	NT		NT		NT		NT	

Bold values indicate concentration exceeds criteria
Italicized values indicate method detection limit exceeds criteria

*Table Previously known as Table 2 Revised and Table II

Notes:
NS = No Standard
NT = Not Tested
NR = Not Reported
ND = Not Detected
U = Not detected above indicated value
J = Estimated concentration

ATTACHMENT C

Draft Deed Notice
(Deed of Environmental Restriction)

DEED NOTICE

Declaration of Environmental Restrictions - Revised 9/99 - Instruction page

The model document in this appendix contains blanks and matter in brackets [ ]. These blanks shall be replaced with the appropriate information prior to submission to the Department for approval. The model document in this appendix is not subject to the variance provisions of N.J.A.C. 7:26E-1.7.

Matter bracketed [ ] is not intended for deletion, but rather is intended to be descriptive of the variable information that may be contained in the final document.

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

DRAFT - 02/12/2002

Prepared by:

_____

[Signature]

_____

[Print name below signature]

Recorded by:

_____

[Signature, Officer of County Recording Office]

_____

[Print name below signature]

DEED NOTICE

This Deed Notice is made as of the _____ day of _____, 200__, by Haarmann & Reimer (together with his/her/its/their successors and assigns, collectively "Owner").

W I T N E S S E T H:

WHEREAS, Owner is the owner in fee simple of certain real property designated as Block 303, Lot 12, on the tax map of the Borough of Teterboro, Bergen County, New Jersey Department of Environmental Protection Known Contaminated Site List Number NJD070570122, more particularly described on Exhibit A attached hereto and made a part hereof (the "Property"); and

WHEREAS, the lead program during the remediation was BEECRA, and the program identification number was E95108; and

WHEREAS, the New Jersey Department of Environmental Protection ("Department") approved a remedial action on _____, for KCSL #NJD070570122/ E95108/ Former Florasynth Facility concerning the Property in which the Department has approved the use of institutional controls and/or engineering controls in accordance with N.J.S.A. 58:10B-13; and

WHEREAS, this Deed Notice itself is not intended to create any interest in real estate in favor of the Department, nor to create a lien against the Property, but merely is intended to provide record or notice of certain conditions and restrictions on the property and to reflect the regulatory and statutory obligations imposed as a condition of using institutional and/or engineering controls; and

WHEREAS, the areas described on Exhibit B attached hereto and made a part hereof (the "Affected Areas") contain contaminants above the applicable remediation standards that would allow for the unrestricted use of the Property; and

WHEREAS, the type, concentration and specific location of the contaminants are described on one or more diagrams, maps and/or tables on Exhibit B attached hereto and made a part hereof; and

WHEREAS, a narrative description of all institutional controls and associated monitoring and maintenance activities are provided in Exhibit C; and

WHEREAS, a narrative description of engineering controls and associated monitoring and maintenance activities is provided in Exhibit C; and

WHEREAS, to prevent the potential for migration of the contaminants and unacceptable risk of exposure to the contamination to humans or the environment, an impermeable surface cover is in place at the Property, at the location shown in Exhibit D on maps or diagrams; and

WHEREAS, in accordance with the Department's approval of the remedial action work plan, and in consideration of the terms and conditions of that approval, and other good and valuable consideration, Owner has agreed to subject the Property to certain statutory and regulatory requirements which impose restrictions upon the use of the Property, and to restrict certain activities at the Property, as set forth below.

NOW, THEREFORE, Owner agrees to the conditions and restrictions listed below and hereby notifies all interested parties, owners, lessees and operators that the applicable regulations and statutes require of such person while owning, leasing or operating the Property as follows:

1. RESTRICTED USES. The owner(s) of all or any fee interest in all or any portion of the Affected Areas and each operator of all or any portion of the Affected Areas, shall not allow any of the following uses of the following portions of the Affected Areas:

Portion of the Affected Area	Restricted Use
The Affected Areas as identified in Exhibit B.	The use shall be restricted to non-residential uses only, and pursuant to paragraphs 2 and 3.

2. EMERGENCIES. In the event of an emergency which presents a significant risk to public health, safety, or the environment, the application of Paragraph 1 above may be temporarily and unilaterally suspended, by Owner, provided that the Owner:

i. Immediately notifies the Department of the emergency;

ii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;

iii. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the residual contamination; and

iv. Restores the Affected Areas to the pre-emergency conditions to the extent reasonably possible, and provides a report to the Department of such emergency and restoration efforts within ninety (90) calendar days after the end of the emergency.

3. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

(a) Except as provided in Paragraph 2 above, no owner or operator shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the Affected Areas which disturbs any engineering control or which creates an unacceptable risk of exposure of humans or the environment to contamination in the Affected Areas without first obtaining the express written consent of the Department. Nothing herein shall constitute a wavier of the Owner's or operator's obligation to comply with all applicable laws and regulations.

(b) Notwithstanding subparagraph 3(a) above, the Department's consent is not required for any alteration, improvement, or disturbance provided the Owner or operator;

i. Provides for restoration of any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance; and

ii. Does not allow an exposure level above those noted under Restricted Uses, provided that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance.

4. ACCESS. While this Deed Notice is in effect, the Owner agrees to allow the Department, its agents and representatives access to the property to inspect and evaluate the continued effectiveness of the institutional or engineering controls and to conduct additional remediation to ensure the protection of the public health and safety and the environment.

5. NOTICE TO LESSEES AND OTHER HOLDERS OF PROPERTY INTERESTS. Owner shall cause all leases, grants, and other written transfers of interest in the Affected Areas to contain a provision expressly requiring all holders thereof to take the Property subject to the restrictions contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of Owner to provide any notice required by any law, regulation, or order of any governmental authority.

6. ENFORCEMENT OF VIOLATIONS. The restrictions provided herein may be enforceable solely by the Department against any person who violates this Deed Notice. A violation of this Deed Notice shall not affect the status of the ownership of or title to the Property. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11u and, require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11g.

7. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable, such provision shall be deemed to have been modified automatically to conform to the requirements for validity and enforceability as determined by such court. In the event that the provision invalidated is of such a nature that this provision cannot be so modified, the provision shall be deemed deleted from this instrument as though it had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.

8. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Owner and upon Owner's successors and assigns while each is an owner or operator of the Property, and the Department.

9. REQUIREMENT OF NOTIFICATION. The Owner shall notify any person who intends to excavate on the property of the nature and location of any contamination existing on the property and of any conditions or measures necessary to prevent exposure to contaminants.

10. TERMINATION AND MODIFICATION

(a) This Deed Notice shall terminate only upon filing of an instrument, executed by the Department, in the office of the County Clerk/Register of Deeds and Mortgages of Bergen County, New Jersey, expressly terminating this Deed Notice.

(b) Any person may request in writing at any time that the Department modify or terminate this Deed Notice or initiate termination proceedings based on, for example, a proposal that the Property does not pose an unacceptable risk to public health and safety or the environment. Within ninety (90) calendar days after receiving such a request the Department will either:

i. Approve the request and have the Owner:

- Record with the office of the county recording officer a notice executed by the Department that the use of the Property is no longer restricted and the Deed Notice is terminated or record a modified Deed Notice delineating the new restrictions; and

-Provide written notice to each municipality in which the Property is located, with a copy to the Department, of the removal or change of the restrictions contained herein; or

ii. Issue a written notification of intent to deny the request pursuant to (c) below.

(c) The Department will set forth in a notice of intent to deny a request to modify or terminate this Deed Notice the basis for its decision. The owner can respond to the intent to deny by providing new or additional information or data. The Department will review any such new or additional information or data and issue a final decision to grant or deny the request within sixty (60) calendar days after the Department's receipt of the owner's response.

IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

[If Owner is a corporation]

ATTEST:

[Name of corporation]

_____ By _____

_____ _____

[Print name and title] [Print name and title]

[If Owner is a general or limited partnership]

WITNESS:

[Name of partnership]

_____ By _____

_____ _____

[Print name and title] [Print name and title], General Partner

[If Owner is an individual]

STATE OF [State where document is executed] SS.:

COUNTY OF [County where document is executed]

I certify that on _____, 19_____, [Name of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that this person [or if more than one person, each person]

(a) is named in and personally signed this document; and

(b) signed, sealed and delivered this document as his or her act and deed.

_____

_____
[Print name and title], Notary Public

[If Owner is a corporation]

STATE OF [State where document is executed] SS.:

COUNTY OF [County where document is executed]

I certify that on _____, 19_____, [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that:

(a) this person is the [secretary/assistant secretary] of [Owner], the corporation named in this document;

(b) this person is the attesting witness to the signing of this document by the proper corporate officer who is the [president/vice president] of the corporation;

(c) this document was signed and delivered by the corporation as its voluntary act and was duly authorized;

(d) this person knows the proper seal of the corporation which was affixed to this document; and

(e) this person signed this proof to attest to the truth of these facts.

_____

_____
[Print name and title of attesting witness]

Signed and sworn before me on
, 19

_____

_____
[Print name and title], Notary Public

[If Owner is a partnership]

STATE OF [State where document is executed] SS.:

COUNTY OF [County where document is executed]

I certify that on _____, 19_____ [Name of person executing document on behalf of Owner] personally came before me, and this person acknowledged under oath, to my satisfaction, that this person:

(a) is a general partner of [Owner], the partnership named in this document;

(b) signed, sealed and delivered this document as his or her act and deed in his capacity as a general partner of [owner]; and

(c) this document was signed and delivered by such partnership as its voluntary act, duly authorized.

_____

_____
[Print name and title], Notary Public

EXHIBIT A

Metes and Bounds Description of Property with Lot and Block Designations
(See Exhibit A - Figure 1)

Tax Map with Lot and Block Designations
(See Exhibit A - Figure 2)

108 — DEED — QUITCLAIM
IND OR CORP — Plain Language

ARRANGT - 1

Celebrity 1983 © ALL STATE LEGAL SUPPLY CO
One Commerce Drive Cranford N.J. 07016

PREPARED BY:
RICHARD P. BANDUTTI, ESQUIRE

DEED

This Deed is made on July 20, 19 88.

BETWEEN NEW JERSEY ECONOMIC DEVELOPMENT AUTHORITY, A Body Politic and Corporation organized and existing under the laws of the State of New Jersey

whose address is Capital Place One, CN 990, 200 S. Warren Street, Trenton, New Jersey 08625 referred to as the Grantor.

AND

FLORASYNTH, INC., A New York Corporation, authorized to do business in the State of New Jersey

whose post office address is 410 East 62nd Street, New York, NY referred to as the Grantee.

The words "Grantor" and "Grantee" shall mean all Grantors and all Grantees listed above.

Transfer of Ownership. The Grantor grants and conveys (transfers ownership of) the property described below to the Grantee. This transfer is made for the sum of TEN DOLLARS ($10.00)

The Grantor acknowledges receipt of this money.

Tax Map Reference. (N.J.S.A. 46:15-2.1) Municipality of Borough of Tenafly
Block No. 6 Lot No. 4 Account No.
☐ No property tax identification number is available on the date of this Deed. (Check box if applicable.)

Property. The property consist of the land and all the buildings and structures on the land in the Borough of Tenafly County of Bergen and State of New Jersey. The legal description is:

BEGINNING at a point in the southerly line of North Street, distant 840 feet easterly as measured along the said southerly line of North Street from the point of intersection of the said southerly line of North Street with the easterly line of Green Street, as the said Streets are now laid out, opened and used and from said point of beginning running; thence

(1) South 59 degrees 43 minutes 30 seconds East along the said southerly line of North Street 197.60 feet to a point: thence

(2) South 54 degrees 12 minutes 30 seconds East still along the said southerly line of North Street 486 feet to a point: thence

(3) South 35 degrees 47 minutes 30 seconds West 121.78 feet to a point: thence

(4) Southerly and Westerly curving to the right along a curve having a radius of 349.26 feet, an arc distance of 551.31 feet to a point: thence

(5) South 30 degrees 16 minutes 30 seconds West 451.62 feet to a point: thence

(6) South 51 degrees 42 minutes 30 seconds East 207.76 feet to the end of the fourth course herein run.

CONTAINING 6.50 acres.

TOGETHER with a non-exclusive easement of right of way 10 feet in width as hereinafter described to the existing center drainage ditch for the purpose of installing a drainage pipe line of any size up to 24 inches, for the exclusive use of the Grantee, its successors and assigns.

CONTINUED...

COUNTY CLERK

RECORDED BERGEN COUNTY
88 OCT 24 AM 8:55

124911

BK 7242 PG 383

6/173/ON ATT. / Jon Carbie
300 North St Tenafly

ALSO together with a right of the Grantee, its successors and assigns, of ingress and egress to, from and over the easement to place, replace, repair, clean and maintain said pipe line.

THE premises affected by the easement or right of way are more particularly bounded and described as follows:

BEGINNING at the end of the fourth course in the premises hereinabove described and from said point of beginning running: thence

(1) Northeasterly and along said fourth course curving to the left along a curve, having a radius of 349.26 feet, an arc distance of 83.78 feet to a point: thence

(2) South 53 degrees 42 minutes 30 seconds East 353.71 feet to the center line of the center drainage ditch; thence

(3) Southerly along the said center line of said center drainage ditch South 37 degrees 20 minutes 10 seconds West 10.01 feet to a point; thence

(4) North 53 degrees 42 minutes 30 seconds West parallel with the second course herein run 438.50 feet to the end of the above mentioned fourth course and the point or place of BEGINNING.

SHEET 3

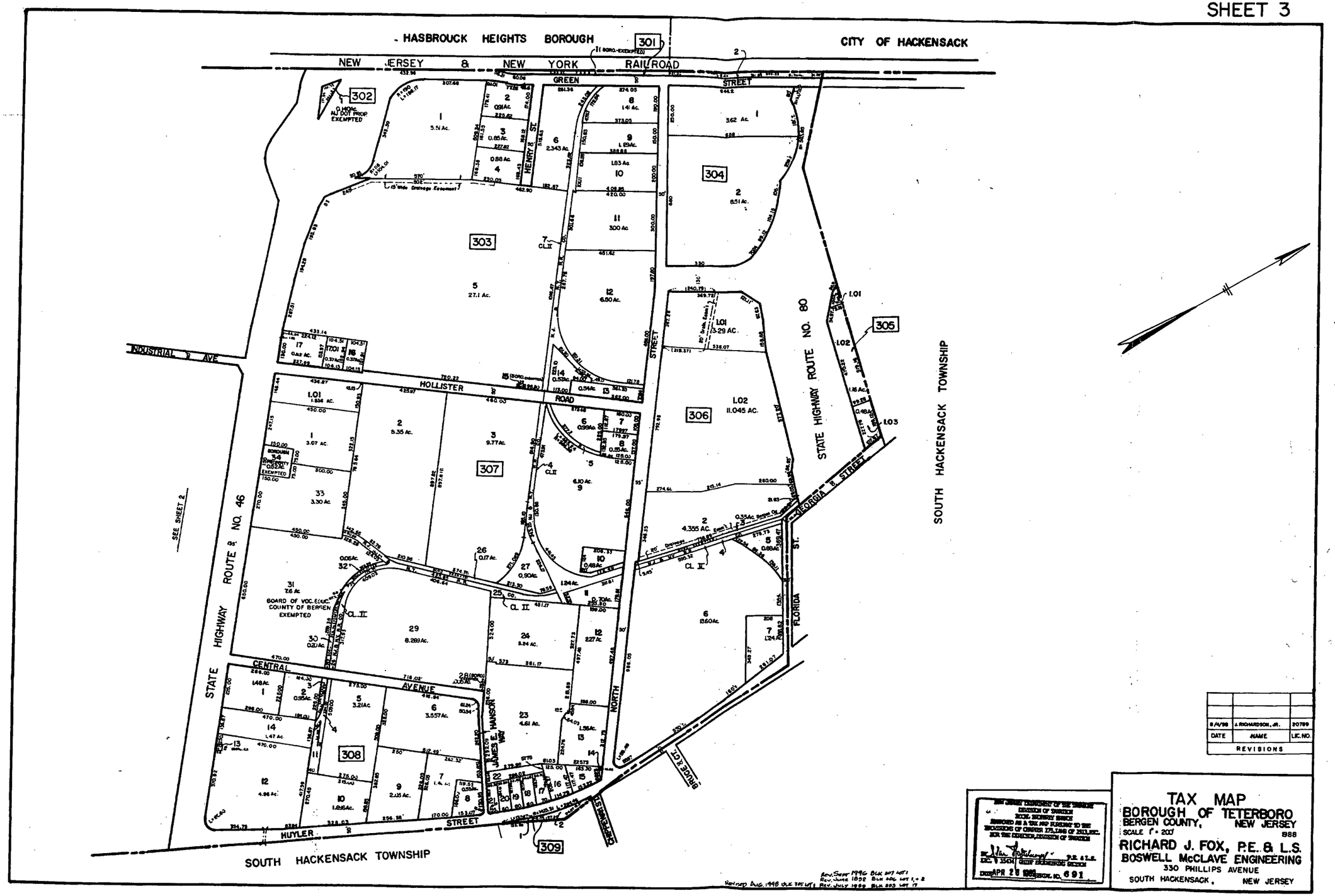


EXHIBIT A - FIGURE 2

Tax Map with Lot and Block Designations

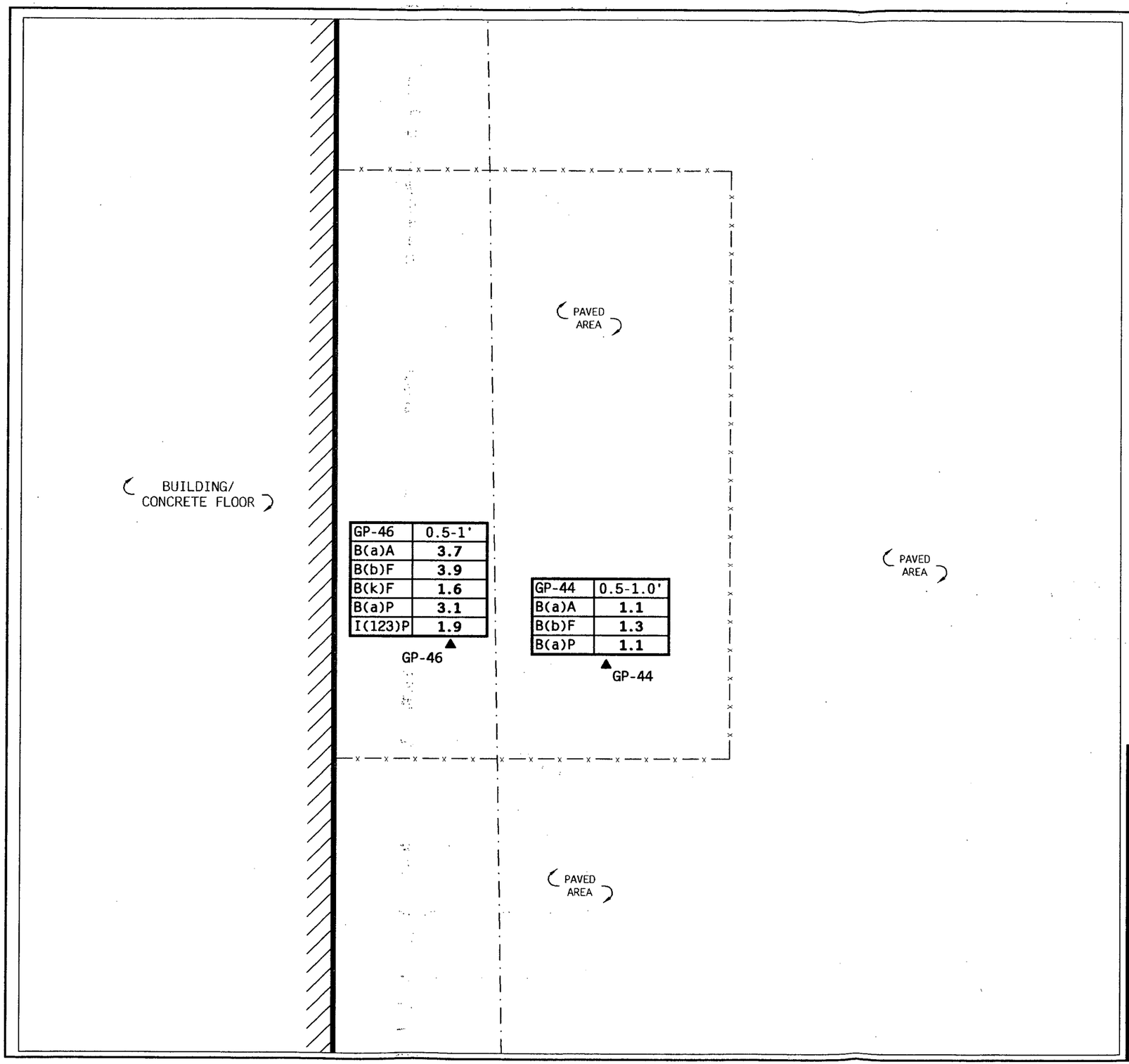
SHEET 3

EXHIBIT B

Description of Affected Areas

Deed Notice Affected Area #	Corresponding AOC #	Soil Sample #	Contaminant and Concentration (mg/kg)	Corresponding Exhibit B – Figure #	Institutional/ Engineering Control
1	AOC #11	GP44-S1	Benzo(a)anthracene – 1.1 Benzo(b)fluoranthene – 1.3 Benzo(a)pyrene – 1.1	Figure 1	Asphalt (now in place)
		GP46-S1	Benzo(a)anthracene – 3.7 Benzo(b)fluoranthene – 3.9 Benzo(k)fluoranthene – 1.6 Benzo(a)pyrene – 3.1 Ideno(1,2,3-cd)pyrene – 1.9	Figure 1	Asphalt (now in place)
2	AOC #8	X52A-.5	TPHC* - 57,400 Benzo(a)anthracene – 2.8 Benzo(b)fluoranthene – 1.7J Benzo(k)fluoranthene – 1.9U Benzo(a)pyrene – 1.5J Ideno(1,2,3-cd)pyrene – 1.9U Dibenzo(a,h)anthracene – 1.9U	Figure 2	Concrete floor/ building foundation and asphalt (now in place)
		X53A-.5	TPHC* - 44,000 Benzo(a)anthracene – 1.6 Benzo(b)fluoranthene – 0.940U Benzo(k)fluoranthene – 0.940U Benzo(a)pyrene – 0.680J Ideno(1,2,3-cd)pyrene – 0.940U Dibenzo(a,h)anthracene – 0.940U	Figure 2	Concrete floor/ building foundation and asphalt (now in place)
		X59A-2.25	TPHC* - 18,300 Dibenzo(a,h)anthracene – 0.95	Figure 2	Concrete floor/ building foundation and asphalt (now in place)
3	AOC #10a	X43-2	Benzo(a)anthracene – 1.8 Benzo(b)fluoranthene – 3.0 Benzo(k)fluoranthene – 1.1 Benzo(a)pyrene – 1.6 Ideno(1,2,3-cd)pyrene – 1.2 Arsenic – 64.1	Figure 2	Asphalt (now in place)
		X-48-6	Arsenic – 22.4	Figure 2	Asphalt (now in place)
4	AOC #17	PE5B	Diethyl phthalate – 470 Methylene Chloride – 4.2 1,1,2,2-Tetrachloroethane – 11 Total TICs – 394.1	Figure 3	Concrete floor/ building foundation (now in place)

TPHC* = Total Petroleum Hydrocarbons.
J = Estimated concentration.
U = Not detected above method detection limit (However, method detection limit greater than applicable Residential Direct Contact Soil Cleanup Criteria).



LEGEND

▲ GP-44 SOIL BORING LOCATION AND ID (7/31/97 BAKER ENVIRONMENTAL, INC.)

— · — · — SANITARY SEWER SYSTEM

—x—x— FENCE

GP-46	0.5-1'	BORING ID AND SAMPLING DEPTH IN FEET
B(a)A	**3.7**	BENZO(a)ANTHRACENE RESULT IN mg/kg.
B(b)F	**3.9**	BENZO(b)FLUORANTHENE RESULT IN mg/kg.
B(k)F	**1.6**	BENZO(k)FLUORANTHENE RESULT IN mg/kg.
B(a)P	**3.1**	BENZO(a)PYRENE RESULT IN mg/kg.
I(123)P	**1.9**	IDENO(1,2,3-cd)PYRENE RESULT IN mg/kg.

NOTES:

1) ONLY COMPOUNDS THAT EXCEED APPLICABLE NJDEP SOIL CLEANUP CRITERIA (SCC) ARE SHOWN.
2) **BOLD RESULTS EXCEED APPLICABLE NJDEP SCC.**

DRAFT

SOURCE: SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.

0 10 20

SCALE: 1" = 10'

TITLE: EXHIBIT B - FIGURE 1
DEED NOTICE AFFECTED AREA #1 (AOC #11) SOIL SAMPLES

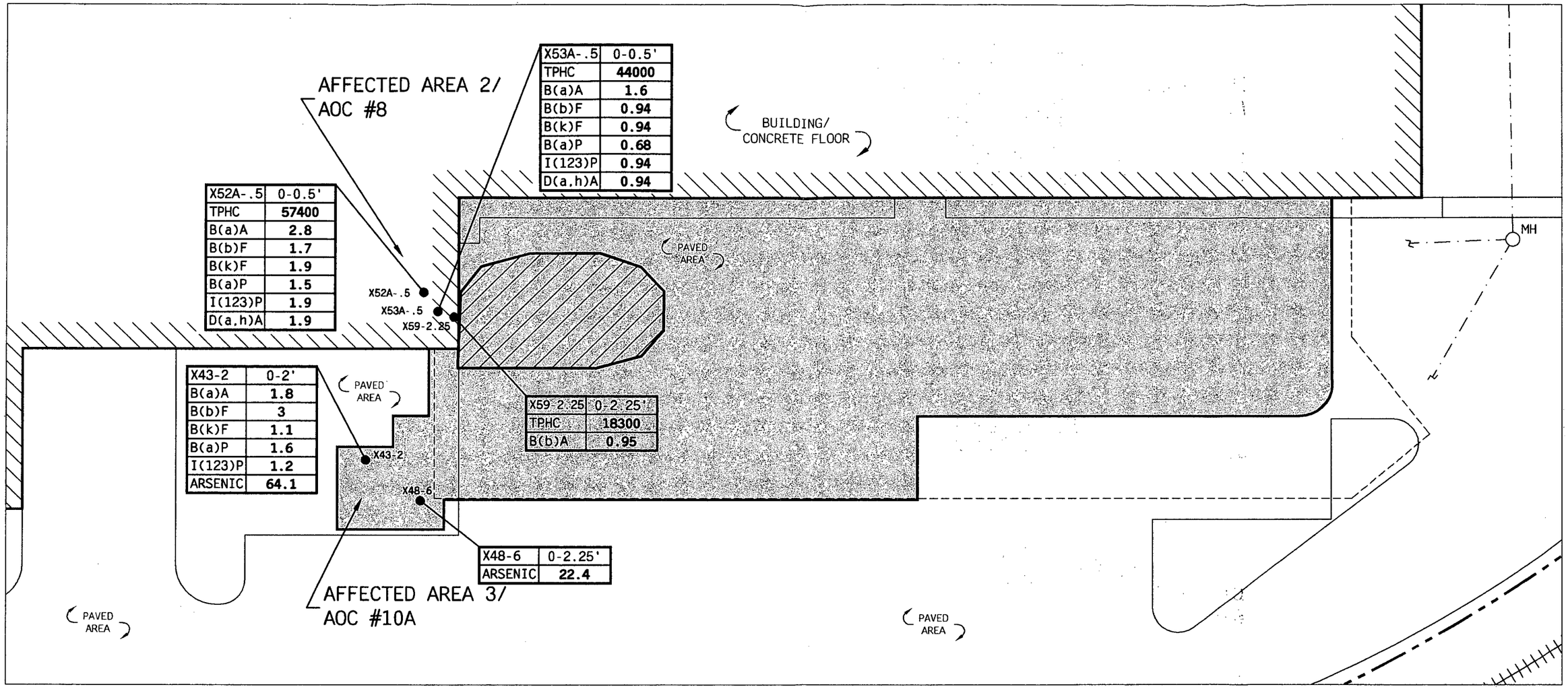
LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 01/12/02

FILENAME: 201162_DATA

LAYOUT: EXHIBIT_b

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4820 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005



LEGEND

— — —	PROPERTY LINE (APPROX.)
++++++++++	RAILROAD
———	EDGE OF PAVEMENT
— · — · —	SANITARY SEWER SYSTEM
- - - - - - - -	FORMER BUILDING LINE

X52A-.5	0-0.5' BORING ID AND SAMPLING DEPTH IN FEET
TPHC	57400 TOTAL PETROLEUM HYDROCARBONS RESULTS IN mg/kg
B(a)A	2.8 BENZO(a)ANTHRACENE RESULTS IN mg/kg
B(b)F	1.7 BENZO(b)FLUORANTHENE RESULTS IN mg/kg
B(k)F	1.9 BENZO(k)FLUORANTHENE RESULTS IN mg/kg
B(a)P	1.5 BENZO(a)PYRENE RESULTS IN mg/kg
I(123)P	1.9 IDENO(1,2,3-cd)PYRENE RESULTS IN mg/kg
D(a,h)A	1.9 DIBENZO(a,h)ANTHRACENE RESULTS IN mg/kg
ARSENIC	ND ARSENIC RESULTS IN mg/kg

X43-2 SOIL SAMPLE LOCATION AND ID (BAKER, 1997)

FORMER AREA OF EXCAVATION (>20')

FORMER AREA OF EXCAVATION (<20')

NOTES:
1) ONLY COMPOUNDS THAT EXCEED APPLICABLE NJDEP SOIL CLEANUP CRITERIA (SCC) ARE SHOWN.
2) **BOLD RESULTS EXCEED APPLICABLE NJDEP SCC.**

SOURCE:
1) SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.
2) SAMPLING LOCATIONS TAKEN FROM PLAN ENTITLED "AREA OF CONCERN #8 ABANDONED 20,000 GALLON NO. 4 FUEL OIL UST RA SAMPLING LOCATIONS" PREPARED BY BAKER ENVIRONMENTAL,

DRAFT

0 20 40

SCALE: 1" = 20'

TITLE: EXHIBIT B - FIGURE 2

DEED NOTICE AFFECTED AREAS #2 (AOC #8) AND #3 (AOC #10A) SOIL SAMPLES

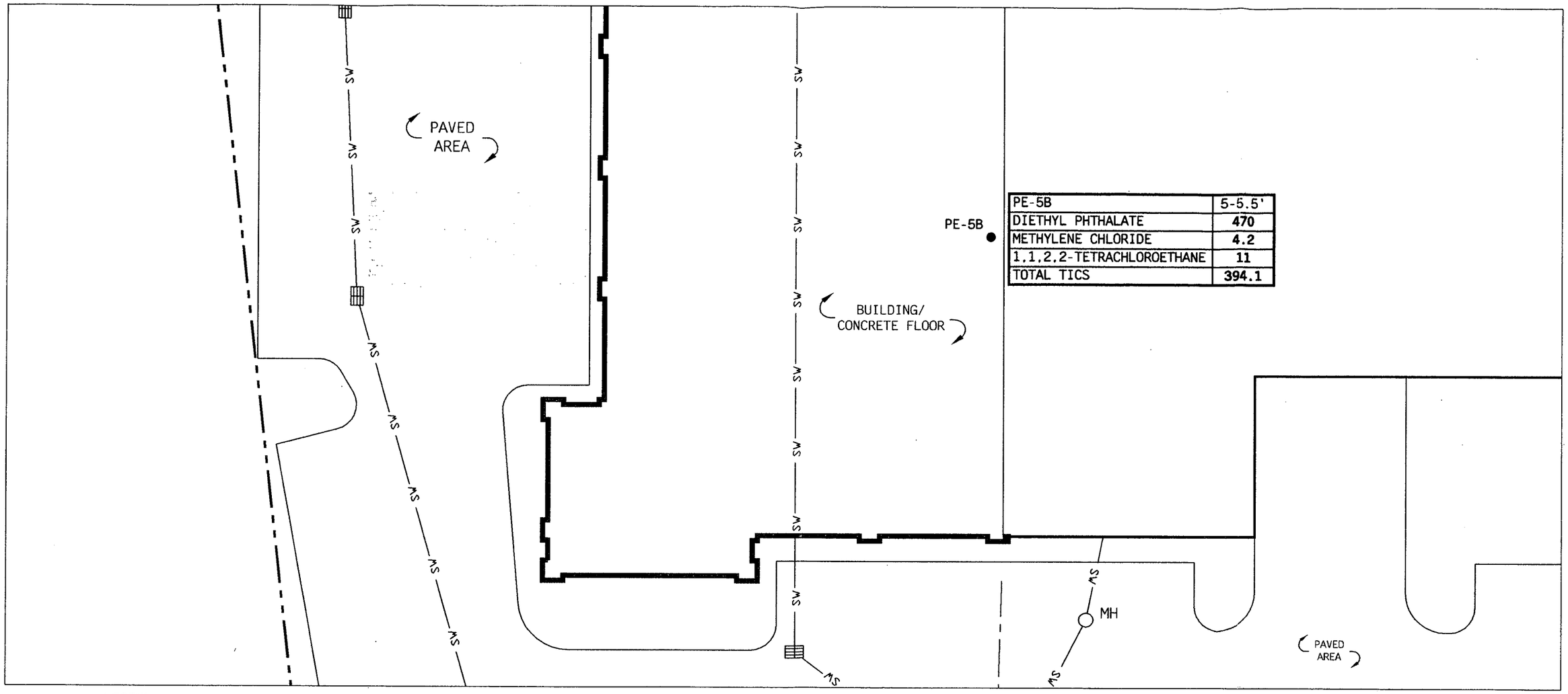
LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 01/08/02

FILENAME: 201162_AOC

LAYOUT: EXHIBIT_B_FIG-2

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4920 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005



PE-5B	5-5.5'
DIETHYL PHTHALATE	**470**
METHYLENE CHLORIDE	**4.2**
1,1,2,2-TETRACHLOROETHANE	**11**
TOTAL TICS	**394.1**

LEGEND

- PE-5B — SOIL SAMPLE LOCATION AND ID (K&S ENVIRONMENTAL, 1997)
- PROPERTY LINE (APPROX.)
- SW — STORM SEWER SYSTEM
- EDGE OF PAVEMENT
- FORMER SEWER LINE / TRENCH

NOTES:
1) ONLY COMPOUNDS THAT EXCEED APPLICABLE NJDEP SOIL CLEANUP CRITERIA (SCC) ARE SHOWN.
2) **BOLD RESULTS EXCEED APPLICABLE NJDEP SCC.**
3) ALL RESULTS ARE IN mg/kg.

DRAFT

SOURCE:
1) SITE MAP TAKEN FROM PLAN ENTITLED "FACILITY SITE PLAN AND AREAS OF CONCERN" PREPARED BY BAKER ENVIRONMENTAL, DATED 10-7-98.
2) SAMPLING LOCATIONS TAKEN FROM PLAN ENTITLED "AREA OF CONCERN #8 ABANDONED 20,000 GALLON NO. 4 FUEL OIL UST RA SAMPLING LOCATIONS" PREPARED BY BAKER ENVIRONMENTAL.

0 20 40

SCALE: 1" = 20'

TITLE: EXHIBIT B - FIGURE 3

DEED NOTICE AFFECTED AREA #4 (AOC #17) SOIL SAMPLE

LOCATION: 300 NORTH STREET TETERBORO, NEW JERSEY

DATE: 01/08/02

FILENAME: 201162_AOC

LAYOUT: EXHIBIT_B_FIG-3

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
218 Wall Street, Research Park, Princeton, NJ 08540
4820 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

EXHIBIT C

Description of Institutional Controls

The institutional controls for the affected areas are specifically described in items 1, 2, and 3 of the Deed Notice. The Deed Notice will be filed with the appropriate state and local officials in accordance with N.J.A.C. 7:26E-6.6(c)9. Any proposed modifications or removal of the Deed Notice will be made in accordance with N.J.A.C. 7:26E-6 (see Exhibit D for details).

Description of Engineering Controls

The Affected Areas are described in Exhibit B. The engineering controls for the Affected Areas are surface covers that comprise of:

(i) asphalt and roadstone base (approximately 4 to 6 inches thick) at Affected Area 1 (AOC #11);

(ii) concrete floor and building foundation over stone/fill material (inside building) and asphalt (outside building) at Affected Area 2 (AOC #8);

(iii) concrete slab (approximately 4 to 6 inches thick) and asphalt and roadstone base (approximately 4 to 6 inches thick) at Affected Area # (AOC #10a); and,

(iv) concrete floor and building foundation over fill material (inside building) at Affected Area 4 (AOC #17). Please note an asphalt-covered parking area is installed outside the building, surrounding Affected Area 4 (AOC #17).

Monitoring and Maintenance

In accordance with N.J.A.C. 7:26E-6.1(b)5 and N.J.S.A. 58:10B-13.1a(2)(a), the following monitoring and maintenance of the engineering controls will be completed for the Affected Areas:

1. An inspection of the Engineering Control for the Affected Areas will completed every year to:

    a. confirm the integrity of the Engineering Control in the Affected Areas, and confirm that the Engineering Control is maintained as detailed in the Deed notice for the affected Area; and

    b. confirm that use of the Affected Areas is in compliance with conditions and restrictions detailed in paragraphs1, 2 and 3 of the Deed Notice.

2. Documentation of the completion of the inspections will be submitted to NJDEP every two years and will include:

    a. the appropriate Site location information;

b. documentation of the inspection results regarding items 1a, 1b, above;
c. any recommended corrective actions to meet the requirements of 1a or 1b, above (i.e., necessary maintenance), if any;
d. confirmation that the Deed Notice remains on the file with the county recording officer; and,
e. submission of the NJDEP's Deed Notice and Engineering Control Biennial Certification Form (or other applicable NJDEP form) to the appropriate NJDEP Program.

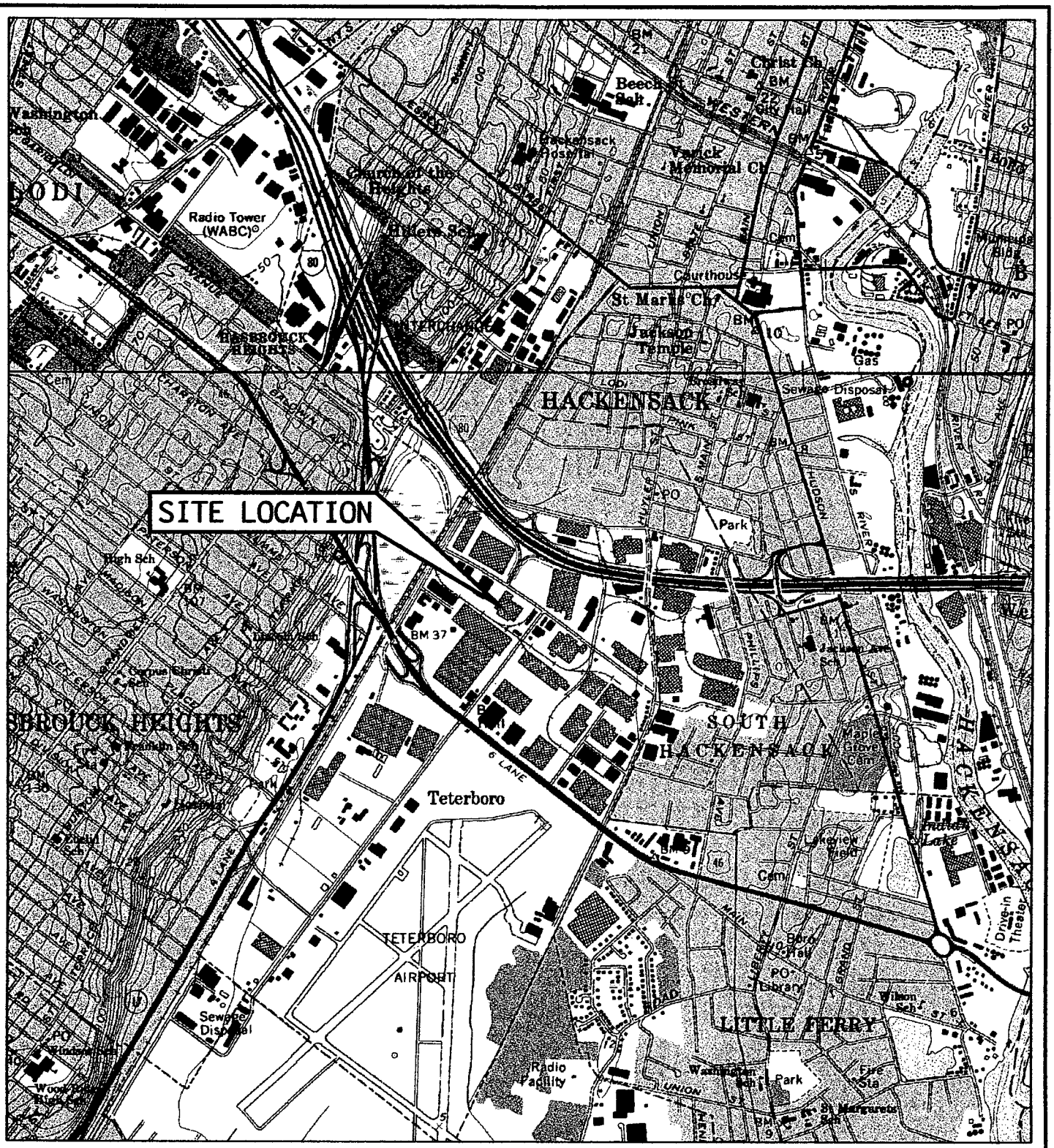
EXHIBIT D

Additional Maps of the Affected Areas and Engineering Controls

U.S.G.S. Topographic Map
(See Exhibit D – Figure 1)

Site Location Hagstrom Street Map
(See Exhibit D – Figure 2)

Engineering Controls
(See Exhibit D – Figure 3)

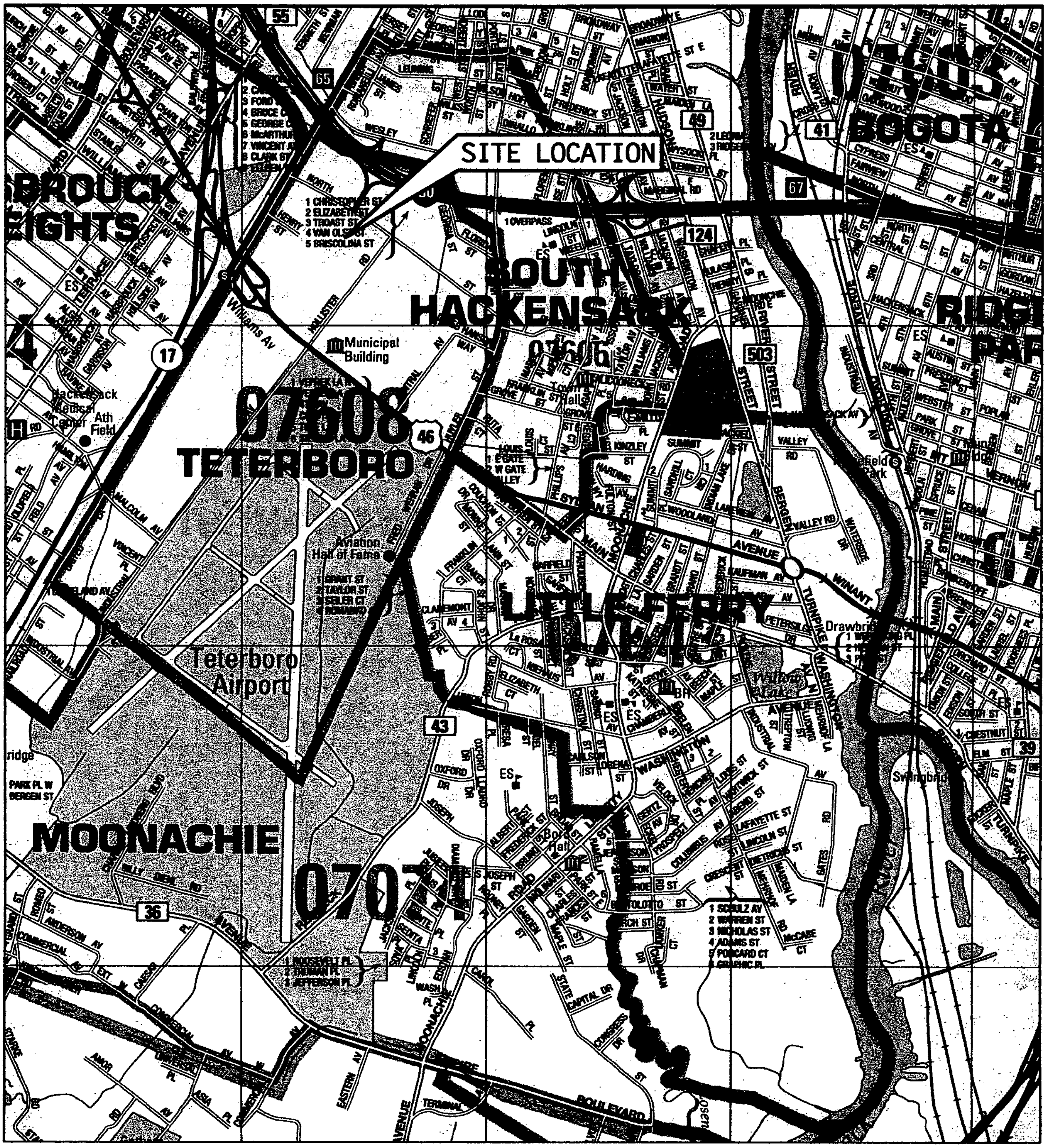


0 2,000 4,000

SCALE: 1" = 2,000'

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.

TITLE:	FIGURE 1 SITE LOCATION MAP
LOCATION:	300 NORTH STREET TETERBORO, NEW JERSEY
DATE:	11/26/01
PROJECT NO.:	201162
FILENAME:	201162_SITELOC
SOURCE:	USGS TOPO, HACKENSACK, N.J. QUAD. USGS TOPO, WEEHAWKEN, N.J.-N.Y. QUAD.



0 2,000 4,000	**TITLE:** FIGURE 2 SITE LOCATION STREET MAP
SCALE: 1" = 2,000'	**LOCATION:** FORMER FLORASYNTH FACILITY 300 NORTH STREET TETERBORO, NEW JERSEY
	DATE: 1/3/02
	PROJECT NO.: 201162
	FILENAME: 201162_StreetMap
	SOURCE: HAGSTROM BERGEN COUNTY ATLAS

ELM
ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
213 Wall Street, Research Park, Princeton, NJ 08540
4609 York Road, Ste. 2CC2, P.O. Box 306, Holicong, PA 18928
612 Main Street, 2nd Floor, Boonton, NJ 07005

ATTACHMENT D

Summary Tables of Soil and Ground Water Data Collected on September 5 and 6, 2001

Attachment D
Soil Sampling Data September 5 and 6, 2001
Former Florasynth, Inc. Facility
Teterboro, New Jersey

Sample ID	NJDEP			SB-5 / 3.5-4.0		SB-9 / 2.0		SB-10 / 2.0		SB-11 / 6.0		SB-12 / 7.5		SB-13 / 7.5		SB-14 / 6.0	
Laboratory ID	Soil Cleanup			E98264-1		E98264-4		E98264-3		E98264-2		E98264-7		E98264-6		E98264-5	
Sample Media	Criteria			Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Sample Date	Residential	Non-Residential	Impact to	9/5/01		9/5/01		9/5/01		9/5/01		9/5/01		9/5/01		9/5/01	
Sample Depth	Direct	Direct	Ground	3.5-4.0'		2.0'		2.0'		6.0'		7.5'		7.5'		6.0'	
Percent Solids	Contact	Contact	Water	89.1		85		81		81.8		83.9		76.4		85.8	
Units Of Measure	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Volatile Organic Compounds																	
Acetone	1000	1000	100	0.73	U	NT		NT		NT		NT		NT		NT	
Benzene	3	13	1	0.15	U	NT		NT		NT		NT		NT		NT	
Bromodichloromethane	11	46	1	0.73	U	NT		NT		NT		NT		NT		NT	
Bromoform	86	370	1	0.73	U	NT		NT		NT		NT		NT		NT	
Bromomethane	79	1000	1	0.73	U	NT		NT		NT		NT		NT		NT	
2-Butanone (MEK)	1000	1000	50	0.73	U	NT		NT		NT		NT		NT		NT	
Carbon disulfide	NS	NS	NS	0.73	U	NT		NT		NT		NT		NT		NT	
Carbon tetrachloride	2	4	1	0.73	U	NT		NT		NT		NT		NT		NT	
Chlorobenzene	37	680	1	0.73	U	NT		NT		NT		NT		NT		NT	
Chloroethane	NS	NS	NS	0.73	U	NT		NT		NT		NT		NT		NT	
Chloroform	19	28	1	0.73	U	NT		NT		NT		NT		NT		NT	
Chloromethane	520	1000	10	0.73	U	NT		NT		NT		NT		NT		NT	
Dibromochloromethane	110	1000	1	0.73	U	NT		NT		NT		NT		NT		NT	
1,1-Dichloroethane	570	1000	10	0.73	U	NT		NT		NT		NT		NT		NT	
1,2-Dichloroethane	6	24	1	0.73	U	NT		NT		NT		NT		NT		NT	
1,1-Dichloroethene	8	150	10	0.73	U	NT		NT		NT		NT		NT		NT	
cis-1,2-Dichloroethene	79	1000	1	0.73	U	NT		NT		NT		NT		NT		NT	
trans-1,2-Dichloroethene	1000	1000	50	0.73	U	NT		NT		NT		NT		NT		NT	
1,2-Dichloropropane	10	43	NS	0.73	U	NT		NT		NT		NT		NT		NT	
cis-1,3-Dichloropropene	NS	NS	NS	0.73	U	NT		NT		NT		NT		NT		NT	
trans-1,3-Dichloropropene	NS	NS	NS	0.73	U	NT		NT		NT		NT		NT		NT	
Ethylbenzene	1000	1000	100	0.15	U	NT		NT		NT		NT		NT		NT	
2-Hexanone	NS	NS	NS	0.73	U	NT		NT		NT		NT		NT		NT	
4-Methyl-2-pentanone(MIBK)	1000	1000	50	0.73	U	NT		NT		NT		NT		NT		NT	
Methylene chloride	49	210	1	0.73	U	NT		NT		NT		NT		NT		NT	
Styrene	23	97	100	0.73	U	NT		NT		NT		NT		NT		NT	
1,1,2,2-Tetrachloroethane	34	70	1	0.73	U	NT		NT		NT		NT		NT		NT	
Tetrachloroethene	4	6	1	0.73	U	NT		NT		NT		NT		NT		NT	
Toluene	1000	1000	500	0.15	U	NT		NT		NT		NT		NT		NT	
1,1,1-Trichloroethane	210	1000	50	0.73	U	NT		NT		NT		NT		NT		NT	
1,1,2-Trichloroethane	22	420	1	0.73	U	NT		NT		NT		NT		NT		NT	
Trichloroethene	23	54	1	0.73	U	NT		NT		NT		NT		NT		NT	
Vinyl chloride	2	7	10	0.73	U	NT		NT		NT		NT		NT		NT	
Xylene (total)	410	1000	67	0.15	U	NT		NT		NT		NT		NT		NT	
Total TICs	NS	NS	NS	ND		NT		NT		NT		NT		NT		NT	
Semi-Volatile Organic Compounds																	
Acenaphthene	3400	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
Acenaphthylene	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
Anthracene	10000	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
Benzo(a)anthracene	0.9	4	500	0.041	J	NT		NT		NT		NT		NT		NT	
Benzo(a)pyrene	0.66	0.66	100	0.0376	J	NT		NT		NT		NT		NT		NT	
Benzo(b)fluoranthene	0.9	4	50	0.0485	J	NT		NT		NT		NT		NT		NT	
Benzo(g,h,i)perylene	NS	NS	NS	0.0231	J	NT		NT		NT		NT		NT		NT	
Benzo(k)fluoranthene	0.9	4	500	0.0212	J	NT		NT		NT		NT		NT		NT	
4-Bromophenyl phenyl ether	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
Butyl benzyl phthalate	1100	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
2-Chloronaphthalene	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
4-Chloroaniline	230	4200	NS	0.18	U	NT		NT		NT		NT		NT		NT	
Carbazole	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
Chrysene	9	40	500	0.0418	J	NT		NT		NT		NT		NT		NT	
bis(2-Chloroethoxy)methane	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
bis(2-Chloroethyl)ether	0.66	3	10	0.073	U	NT		NT		NT		NT		NT		NT	
bis(2-Chloroisopropyl)ether	2300	10000	10	0.073	U	NT		NT		NT		NT		NT		NT	
4-Chlorophenyl phenyl ether	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	5100	10000	50	0.073	U	NT		NT		NT		NT		NT		NT	
1,3-Dichlorobenzene	5100	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
1,4-Dichlorobenzene	570	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
2,4-Dinitrotoluene	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
2,6-Dinitrotoluene	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
3,3'-Dichlorobenzidine	2	6	100	0.18	U	NT		NT		NT		NT		NT		NT	
Dibenzo(a,h)anthracene	0.66	0.66	100	0.073	U	NT		NT		NT		NT		NT		NT	
Dibenzofuran	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
Di-n-butyl phthalate	5700	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
Di-n-octyl phthalate	1100	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
Diethyl phthalate	10000	10000	50	0.073	U	NT		NT		NT		NT		NT		NT	
Dimethyl phthalate	10000	10000	50	0.073	U	NT		NT		NT		NT		NT		NT	
bis(2-Ethylhexyl)phthalate	49	210	100	0.073	U	NT		NT		NT		NT		NT		NT	
Fluoranthene	2300	10000	100	0.0728	J	NT		NT		NT		NT		NT		NT	
Fluorene	2300	10000	100	0.073	U	NT		NT		NT		NT		NT		NT	
Hexachlorobenzene	0.66	2	100	0.073	U	NT		NT		NT		NT		NT		NT	
Hexachlorobutadiene	1	21	100	0.073	U	NT		NT		NT		NT		NT		NT	
Hexachlorocyclopentadiene	400	7300	100	0.73	U	NT		NT		NT		NT		NT		NT	
Hexachloroethane	6	100	100	0.18	U	NT		NT		NT		NT		NT		NT	
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.0264	J	NT		NT		NT		NT		NT		NT	
Isophorone	1100	10000	50	0.073	U	NT		NT		NT		NT		NT		NT	
2-Methylnaphthalene	NS	NS	NS	0.073	U	NT		NT		NT		NT		NT		NT	
2-Nitroaniline	NS	NS	NS	0.18	U	NT		NT		NT		NT		NT		NT	
3-Nitroaniline	NS	NS	NS	0.18	U	NT		NT		NT		NT		NT		NT	
4-Nitroaniline	NS	NS	NS	0.18	U	NT		NT		NT		NT		NT		NT	
Naphthalene	230	4200	100	0.073	U	NT		NT		NT		NT		NT		NT	
Nitrobenzene	28	520	10	0.073	U	NT		NT		NT		NT		NT		NT	
N-Nitroso-di-n-propylamine	0.66	0.66	10	0.073	U	NT		NT		NT		NT		NT		NT	
N-Nitrosodiphenylamine	140	600	100	0.18	U	NT		NT		NT		NT		NT		NT	
Phenanthrene	NS	NS	NS	0.0288	J	NT		NT		NT		NT		NT		NT	
Pyrene	1700	10000	100	0.0656	J	NT		NT		NT		NT		NT		NT	
1,2,4-Trichlorobenzene	68	1200	100	0.073	U	NT		NT		NT		NT		NT		NT	
Total TICs	NS	NS	NS	0.35		NT		NT		NT		NT		NT		NT	
Metals																	
Arsenic	20	20	NS	NT		15.6		8.2		6.3		1.2	U	2.4		4.7	

Bold Values Indicate Concentration Exceeds Criteria
Italicized Values Indicate Method Detection Limit Exceeds Criteria

Notes:
NS = No Standard
NT = Not Tested
U = Not Detected Above Indicated Concentration
J = Estimated Value

Attachment D
Ground Water Sampling Data September 5 and 6, 2001
Former Florasynth, Inc. Facility
Teterboro, New Jersey

Sample ID	NJDEP	SB-1 / GW		SB-2 / GW		SB-3 / GW		SB-4 / GW		SB-5 / GW		SB-6 / GW		SB-7 / GW		SB-8 / GW	
Laboratory ID	**Ground Water Quality Criteria**	E98264-10		E98264-11		E98264-12		E98264-13		E98264-14		E98264-9		E98264-15		E98264-8	
Sample Media	**Class II-A**	Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Sample Date	**Criteria**	9/6/01		9/6/01		9/6/01		9/6/01		9/6/01		9/5/01		9/6/01		9/5/01	
Units Of Measure	**ug/L**	ug/l		ug/l		ug/l		ug/l		ug/l		ug/l		ug/l		ug/l	
Volatile Organic Compounds																	
Acetone	700	10.8		13.8		4.6	J	4	J	119		4.1	J	4	J	3.4	J
Benzene	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromoform	4	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U
Bromomethane	10	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone (MEK)	300	5	U	8.3		5	U	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	2	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	50*	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloroethane	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroform	6	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloromethane	30	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	10	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	50*	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	2	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethene	2	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
cis-1,2-Dichloroethene	70*	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	100	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	NS	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	700	1	U	1	U	1	U	1	U	1	U	1	U	1.2		1	U
2-Hexanone	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone(MIBK)	400	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	3*	2	U	2	U	2	U	2	U	2	U	**5.4**		**7.1**		**4**	
Styrene	100	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	1*	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Tetrachloroethene	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	1,000	1	U	1	U	1	U	1	U	25.5		1	U	1	U	1	U
1,1,1-Trichloroethane	30	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	3	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Trichloroethene	1	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Vinyl chloride	5	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Xylene (total)	1,000*	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Total TICs	NS	ND		ND		ND		ND		212		119.9		379.6		196	
Semivolatile Organic Compounds																	
Acenaphthene	400	2	U	2	U	2	U	2	U	2	U	0.56	J	2.3		2	U
Acenaphthylene	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Anthracene	2,000	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Benzo(a)anthracene	NS	2	U	2	U	0.65	J	1.5	J	2	U	2	U	2	U	2	U
Benzo(a)pyrene	NS	2	U	2	U	0.65	J	1.7	J	2	U	2	U	2	U	2	U
Benzo(b)fluoranthene	NS	2	U	2	U	0.89	J	2.2		2	U	2	U	2	U	2	U
Benzo(g,h,i)perylene	NS	2	U	2	U	2	U	0.99	J	2	U	2	U	2	U	2	U
Benzo(k)fluoranthene	NS	2	U	2	U	2	U	0.8	J	2	U	2	U	2	U	2	U
4-Bromophenyl phenyl ether	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Butyl benzyl phthalate	100	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbazole	NS	2	U	2	U	2	U	2	U	2	U	0.51	J	0.77	J	2	U
Chrysene	NS	2	U	2	U	0.66	J	1.5	J	2	U	2	U	0.79	J	2	U
bis(2-Chloroethoxy)methane	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis(2-Chloroethyl)ether	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis(2-Chloroisopropyl)ether	300	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Chlorophenyl phenyl ether	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichlorobenzene	600	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,3-Dichlorobenzene	600	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,4-Dichlorobenzene	75	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,4-Dinitrotoluene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,6-Dinitrotoluene	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
3,3'-Dichlorobenzidine	60	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibenzo(a,h)anthracene	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Dibenzofuran	NS	5	U	5	U	5	U	5	U	5	U	0.51	J	1.2	J	5	U
Di-n-butyl phthalate	900	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Di-n-octyl phthalate	100	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Diethyl phthalate	5,000	2	U	2	U	1.3	J	2	U	2	U	3		2	U	2	U
Dimethyl phthalate	NS	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis(2-Ethylhexyl)phthalate	30	2	U	2	U	2	U	2	U	2	U	2	U	1.5	J	2	U
Fluoranthene	300	2	U	2	U	1.1	J	2.5		2	U	2	U	2	U	2	U
Fluorene	300	2	U	2	U	2	U	2	U	2	U	0.94	J	2.7		2	U
Hexachlorobenzene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Hexachlorobutadiene	1	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*
Hexachlorocyclopentadiene	50	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Hexachloroethane	10	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Indeno(1,2,3-cd)pyrene	NS	2	U	2	U	0.52	J	1.1	J	2	U	2	U	2	U	2	U
Isophorone	100	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Methylnaphthalene	NS	2	U	2	U	2	U	2	U	2	U	1.1	J	19.1		2	U
2-Nitroaniline	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	NS	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	NS	2	U	2	U	2	U	2	U	2	U	0.85	J	9.3		2	U
Nitrobenzene	10	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
N-Nitroso-di-n-propylamine	20	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
N-Nitrosodiphenylamine	20	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Phenanthrene	NS	2	U	2	U	2	U	0.82	J	2	U	1.4	J	3.8		2	U
Pyrene	200	2	U	2	U	1.1	J	2.7		2	U	2	U	1.3	J	2	U
1,2,4-Trichlorobenzene	9	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Total TICs	NS	ND		ND		76.2		ND		940		142.8		303		29.5	

Bold Values Indicate Concentration Exceeds Criteria
Italicized Values Indicate Method Detection Limit Exceeds Criteria
*Interim Specific Criteria

Notes:
NS = No Standard
NT = No Tested
U = Not Detected Above Indicated Concentration
J = Estimated Value

ATTACHMENT E

Soil Boring and Temporary Well Logs – September 5 and 6, 2001

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
TEMPORARY MONITORING WELL LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 5, 2001	Sampling Method:	Poly-hose (ground water)

Soil Boring ID#:	SB-1	Diameter of Well:	1-inch diameter
Total Depth of Boring:	8 feet	Total PVC Screen:	5 feet

SB-1

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
+1.15				
0				0.0-0.5' Asphalt and Roadstone.
1		0		0.5-2.0' Backfill: Gray-brown crushed Stone (Gravel, Cobbles), some medium to coarse Sand, very loose, dry to wet at 2.0'.
2				
3		0	SB-1/GW	2.0-4.0' Black to light-orange dense CLAY, trace wood chips, "meadow mat" odor, moist to damp.
4				
5		0		4.0-8.0' Light brown-orange dense laminated/gray-mottled CLAY, no odor, wet.
6				
7		0		
8				Soil boring completed to 8 feet below grade. *
9				

* Temporary well installed to 3.85 feet below grade due to borehole collapse.

Soil Boring ID#:	SB-2	Diameter of Well:	1-inch diameter
Total Depth of Boring:	5 feet	Total PVC Screen:	5 feet

SB-2

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
0				0.0-0.5' Asphalt and Roadstone.
0.5		0		0.5-2.5' Backfill: Gray-brown crushed Stone (Gravel, Cobbles), some medium to coarse Sand, very loose.
1				
1.5		0		
2				
2.5		0		2.5-3.0' Brown very fine SAND, trace Cobbles, no odor, moist to wet.
3			SB-2/GW	3.0-4.25' Black to brown dense laminated CLAY, moist to wet.
3.5		0		
4				4.25-4.5' Brown very fine SAND, trace cobbles (overburden?).
4.5		0		4.5-5.0' Brown dense laminated CLAY, no odor, moist to damp.
5				Soil boring/Temp well completed to 5 feet below grade.
5.5				

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
TEMPORARY MONITORING WELL LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 5, 2001	Sampling Method:	Poly-hose (ground water)

Soil Boring ID#:	SB-3	Diameter of Well:	1-inch diameter
Total Depth of Boring:	5 feet	Total PVC Screen:	5 feet

SB-3

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
+0.5				
0				0.0-0.5' Asphalt and Roadstone.
0.5		0		0.5-3.0' Backfill: Gray Cobbles and Gravel, trace Silt and Sand, very loose, no odor, wet at 3.0 (coarse Sand).
1				
1.5		0		
2				
2.5		0		
3				3.0-3.5' Brown GRAVEL and coarse SAND, no odor, wet.
3.5		0		3.5-4.0' Gray dense laminated/mottled CLAY, no odor, moist.
4			SB-4/GW	4.0-5.0' Brown dense laminated/mottled CLAY, no odor, moist to wet.
4.5		0		
5				Soil boring completed to 5 feet below grade. *
5.5				

* Due to low water volume in well on September 5, the boring/well were re-installed on September 6.

Soil Boring ID#:	SB-4	Diameter of Well:	1-inch diameter
Total Depth of Boring:	5 feet	Total PVC Screen:	5 feet

SB-4

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
+1.3				
0				0.0-0.5' Asphalt and Roadstone.
0.5		0		0.5-4.5' Backfill: Gray to brown Gravel and Cobbles, some medium to coarse Sand, trace Silt, no odor, wet at 4.0.
1				
1.5		0		
2				
2.5		0		
3			SB-4/GW	
3.5		0		
4				
4.5		0		4.5-5.0' Light orange-brown mottled CLAY, no odor, moist.
5				Soil boring completed to 5 feet below grade. *
5.5				

* Temporary well installed to 3.7 feet below grade due to borehole collapse.

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
TEMPORARY MONITORING WELL LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 5, 2001	Sampling Method:	Poly-hose (ground water)

Soil Boring ID#:	SB-5	Diameter of Well:	1-inch diameter
Total Depth of Boring:	8 feet	Total PVC Screen:	10 feet

SB-5

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
+2				
+1				
0				0.0-0.5' Asphalt and Roadstone.
1		0		0.5-4.0' Backfill: Red brick, crushed rock fragments (sandy-like)
2				grading to black dense clayey Sand, no odor, wet at 4.0'.
3		0	SB-5/3.5-4.0	
4			SB-5/GW	4.0-5.0' Crushed Cobbles and Rock, no odor, saturated.
5		0		
6				5.0-8.0' Light brown dense mottled CLAY, no odor, damp to moist
7		0		at 8.0'.
8				Soil boring completed to 8 feet below grade. *
9				

* Due to well silting in (i.e. no water detected in well), the boring/well were re-installed on September 6.

Soil Boring ID#:	SB-6	Diameter of Well:	NA
Total Depth of Boring:	8 feet	Total PVC Screen:	NA

SB-6

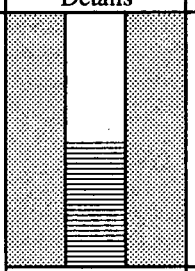
Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
0				0.0-0.5' Concrete.
1		NA		
2				* Due to borehole collapse from concrete/fill material, a ground
3				water sample was collected via direct macro-core (hydropunch)
4				sampling. Ground water sample collected approximately 6.0-8.0 feet
5			SB-6/GW	below grade. No lithology or PID readings recorded.
6				
7				
8				Soil boring completed to 8 feet below grade.
9				

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
TEMPORARY MONITORING WELL LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 6, 2001	Sampling Method:	Poly-hose (ground water)

Soil Boring ID#:	SB-7	Diameter of Well:	NA
Total Depth of Boring:	8 feet	Total PVC Screen:	NA

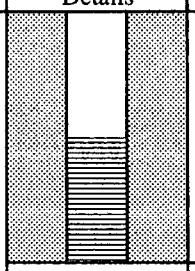
SB-7

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
0 1 2 3 4 5 6 7		NA	SB-7/GW	0.0-0.5' Concrete. * Due to multiple refusals and borehole collapse from concrete/fill material, a ground water sample was collected via direct macro-core (hydropunch) sampling. Ground water sample collected approximately 6.0-8.0 feet below grade. No lithology or PID readings recorded. Odor and slight sheen on ground water observed.
8 9				Soil boring completed to 8 feet below grade.

** Encountered refusal at 4.0 feet below grade at two locations. Third location successful.

Soil Boring ID#:	SB-8	Diameter of Well:	NA
Total Depth of Boring:	8 feet	Total PVC Screen:	NA

SB-8

Depth (Feet)	Construction Details	PID (units)	Sample Collected	Lithology Encountered
0 1 2 3 4 5 6 7		NA	SB-8/GW	0.0-0.5' Concrete. * Due to refusal and borehole collapse from concrete/fill material, a ground water sample was collected via direct macro-core (hydropunch) sampling. Ground water sample collected approximately 6.0-8.0 feet below grade. No lithology or PID readings recorded. Good ground water recovery.
8 9				Soil boring completed to 8 feet below grade.

** Encountered refusal at 4.0 feet below grade at first location. Second location successful.

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
SOIL BORING LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 5, 2001	Sampling Method:	Acetate Sleeve

SB-9

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.3' Concrete.
0.5	0		0.3-2.0' Backfill: Gray-brown-black Sand and Gravel, no odor, slightly moist.
1			
1.5	0		
2		SB-9/ 2.0	2.0-4.0' Gray-black grading to light brown dense CLAY, trace mottles, no odor, dry to damp.
2.5	0		
3			
3.5	0		
4			Soil boring completed to 4 feet below grade.

SB-10

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.3' Concrete.
0.5	0		0.3-2.0' Backfill: Gray-brown-black Sand and Gravel, no odor, slightly moist.
1			
1.5	0		
2		SB-10/ 2.0	2.0-4.0' Gray-black grading to light brown dense CLAY, trace mottles, no odor, dry to damp.
2.5	0		
3			
3.5	0		
4			Soil boring completed to 4 feet below grade.

SB-11

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-3.5' Asphalt, Roadstone and Fill Material: Gray Gravel, Cobbles, Sand, no odor, dry.
1	0		
2			
3	0		3.5-4.0' Gray dense, mottled CLAY, no odor, dry to damp.
4			4.0-8.0' Dark brown grading to light brown dense CLAY, some mottles and laminations, no odor, damp.
5	0		
6		SB-11/ 6.0	
7	0		
8			8.0-12.0' Light brown to brown (at 12.0) very dense CLAY, citrus odor, damp.
9	0		
10			
11	0		
12			Soil boring completed to 12 feet below grade.

* No visible or measureable water observed in soil boring SB-11.

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
SOIL BORING LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 5, 2001	Sampling Method:	Acetate Sleeve

SB-12

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.3' Concrete.
1	0		0.3-4.0' Backfill: Gray Gravel and Cobbles, no odor, dry.
2			
3	0		
4			4.0-7.5' Backfill: Gray Gravel and Cobbles, no odor, wet at 7.0-7.5'.
5	0		
6			
7	0	SB-12/ 7.5	7.5-8.0' Brown dense, laminated CLAY, citrus odor, moist to damp.
8			Soil boring completed to 8 feet below grade.

SB-13

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.3' Concrete.
1	0		0.3-7.0' Backfill: Gray Gravel, Cobbles, Sand, no odor, dry to wet at 6.0-7.0'.
2			
3	0		
4			
5	0		
6			
7	0	SB-13/ 7.5	7.0-8.0' Brown dense, laminated CLAY, citrus odor, damp.
8			Soil boring completed to 8 feet below grade.

SB-14

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.3' Concrete.
1	0		0.3-4.0' Backfill: Gray Gravel, Cobbles, Sand, Rock Dust, no odor, dry.
2			
3	0		
4			4.0-5.5' Backfill: Gray Gravel and Cobbles, no odor, dry to wet at 5.5'.
5	0		5.5-8.0' Light brown dense, laminated CLAY, citrus odor, damp.
6		SB-14/ 6.0	
7	0		
8			Soil boring completed to 8 feet below grade.

ENVIRONMENTAL LIABILITY MANAGEMENT, INC.
SOIL BORING LOG

Project Number:	201162	Drilling Company:	TerraProbe
Project Name:	Former Florasynth, Inc.	Drilling Method:	GeoProbe
Installation Date:	September 6, 2001	Sampling Method:	Acetate Sleeve

SB-15

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.5' Asphalt and Roadstone.
1	0	NA	0.5-3.5' Backfill: Gray Cobbles, Gravel, medium to coarse Sand, no odor, dry.
2			
3	0		3.5-4.0' Gray-brown dense, mottled CLAY, no odor, dry.
4			4.0-7.0' Light orange-brown dense, mottled CLAY, trace gray laminations,
5	0		trace Silt, no odor, dry.
6			
7	0		7.0-8.0' Light orange-brown dense CLAY, trace very fine Sand laminations,
8			no odor, dry.
9	0		8.0-12.0' Light orange-brown dense CLAY, trace very fine Sand laminations,
10			no odor, dry.
11	0		
12			Soil boring completed to 12 feet below grade.

* No visible or measureable water observed in soil boring SB-15.

SB-16

Depth (Feet)	PID (units)	Sample Collected	Lithology Encountered
0			0.0-0.5' Asphalt and Roadstone.
1	0	NA	0.5-2.0' Backfill: Gray Cobbles, Gravel, medium to coarse Sand, no odor, dry.
2			2.0-4.0' Red grading to tan-black dense CLAY, trace Cobbles and Gravel,
3	0		no odor, dry.
4			4.0-6.0' Tan-black dense CLAY, no odor, damp.
5	0		
6			6.0-8.0' Light brown dense, laminated CLAY, no odor, dry.
7	0		
8			8.0-9.0' Tan-black dense CLAY, cleaning product odor, damp to moist.
9	0		9.0-12.0' Light orange-brown dense CLAY, trace very fine Sand laminations,
10			no odor, damp.
11	0		
12			Soil boring completed to 12 feet below grade.

* No visible or measureable water observed in soil boring SB-16.

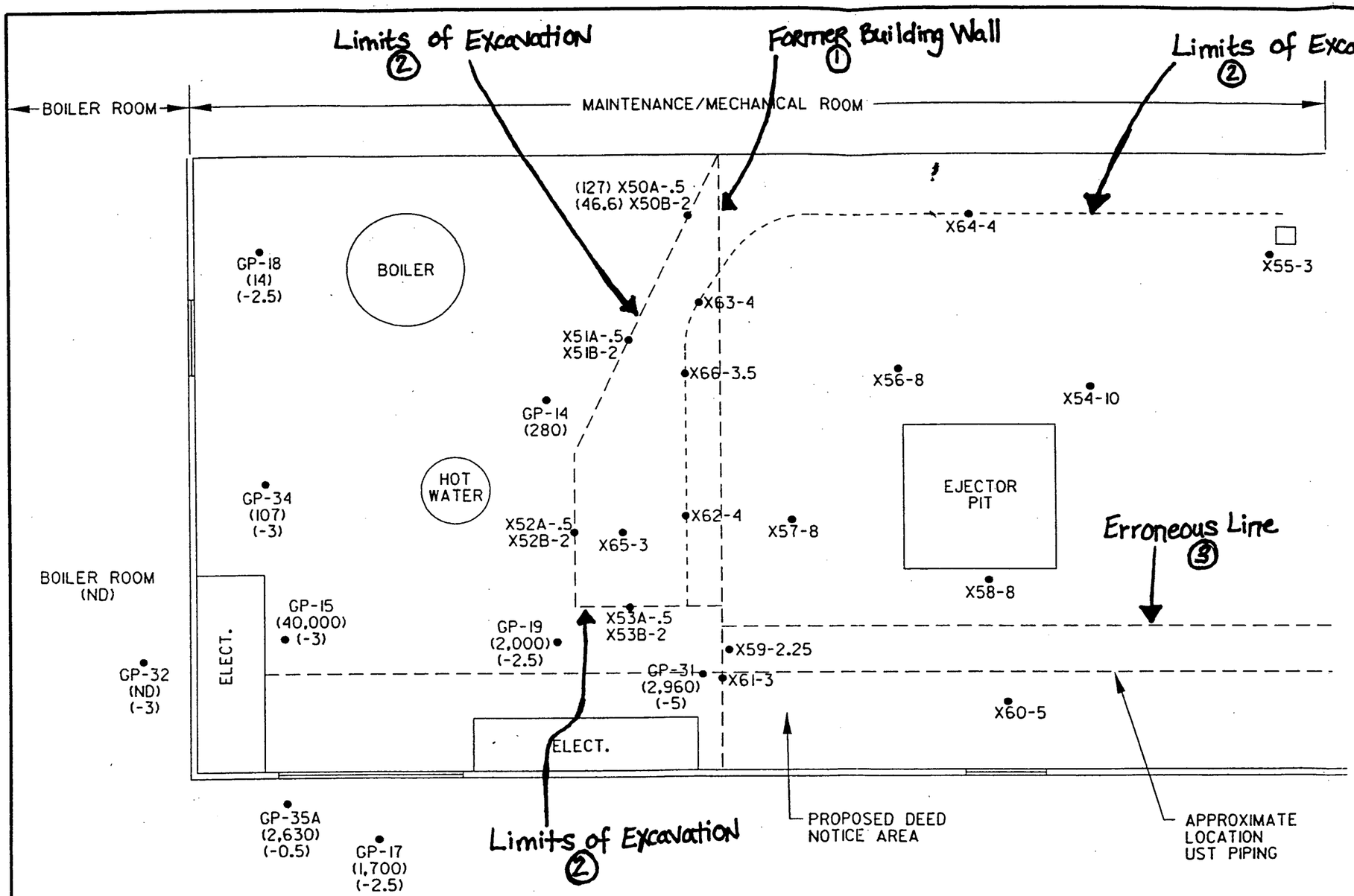
ATTACHMENT F

Laboratory Deliverable Packages for Soil and Ground Water Samples Collected on September 5 and 6, 2001

(Bound Separately in Two Volumes, Accutest #E98264)
(HAZSITE Electronic Data Submission (1 Diskette) Included)

ATTACHMENT G

AOC #8: Abandoned 20,000-Gallon No. 4 Fuel Oil UST – Clarification of Figure Presented in Attachment G of March 2000 Report



NOTES:

① Based on review of Figures presented in Attachments D+E of the March 2000 Baker Report.

② Since post-excavation soil samples are located along these dashed lines, it is presumed that the dashed lines mark the limit of the excavation.

③ No known purpose of this dashed line.

NOTE:

( ) TPHC CONCENTRATION IN PARTS PER MILLION (ppm)

(-2) SAMPLE DEPTH BELOW FINISHED FLOOR

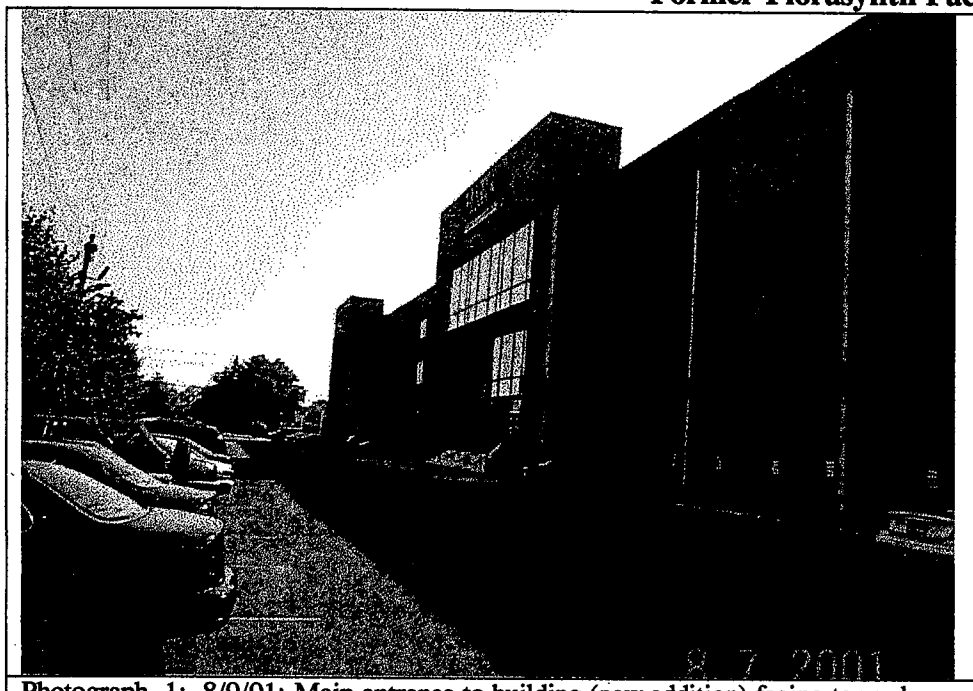
(ND) NOT DETECTED

FLORASYNTH, INC.	SITE INVESTIGATION/REMEDIAL INVESTIGATION
ATTACHMENT G MAINTENANCE /MECHANICAL ROOM	
Baker Environmental, Inc.	307 College Road East Princeton, NJ 08540 (609) 734-7900
SCALE: 1"=5' | DATE: FEB. 17, 2000 | JO. NO. 22680-000-0000-00002	FILE NAME: E:\ SMI\TETERBOR\ATTACHMENT-G.DGN

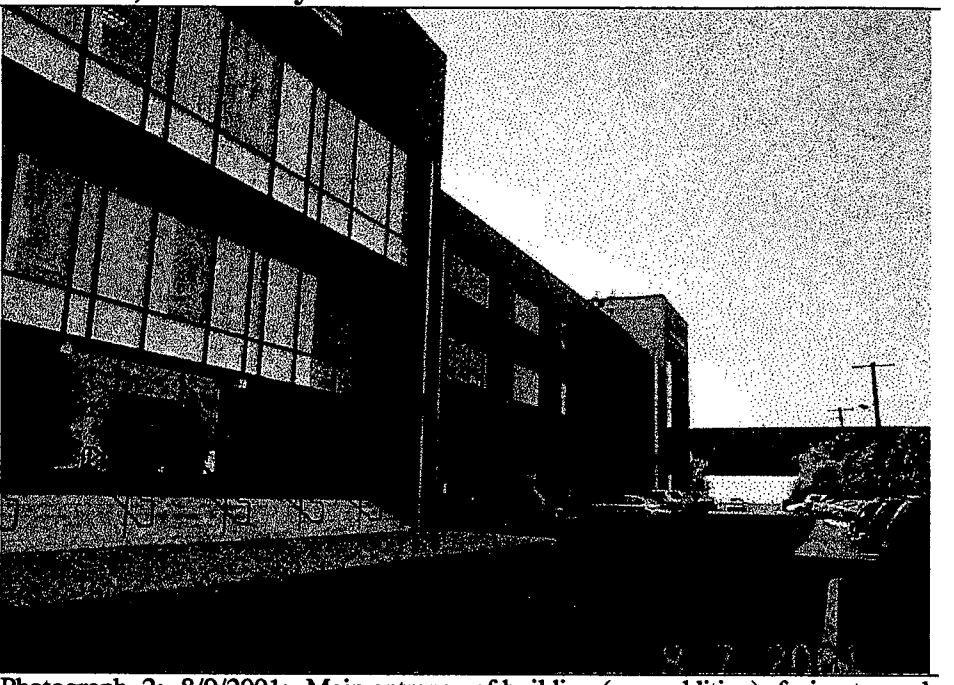
ATTACHMENT H

Selected Site Wide Photographs

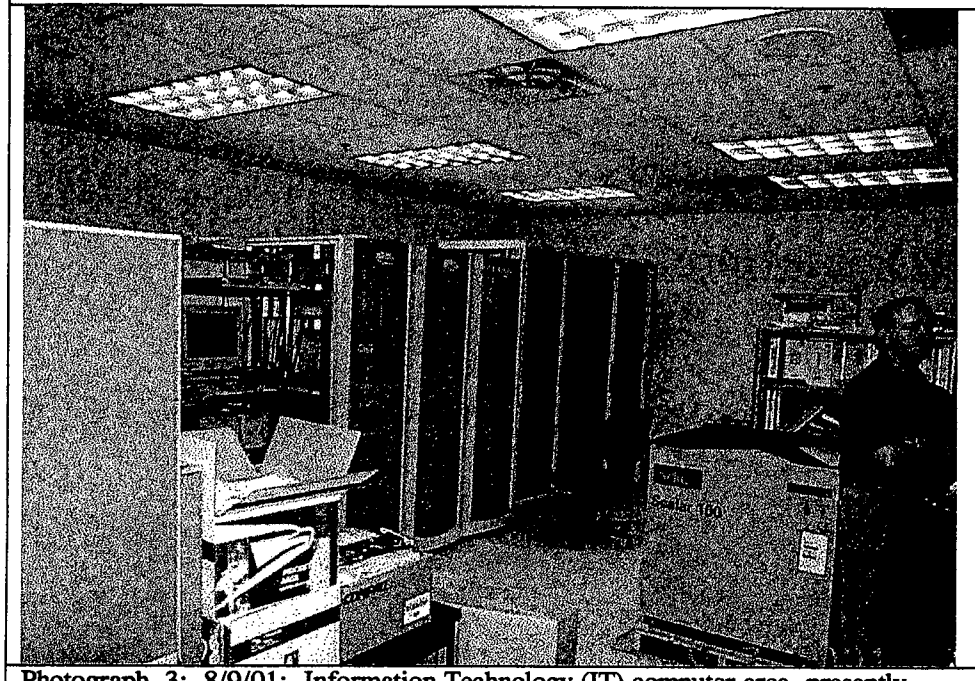
Former Florasynth Facility, Teterboro, New Jersey



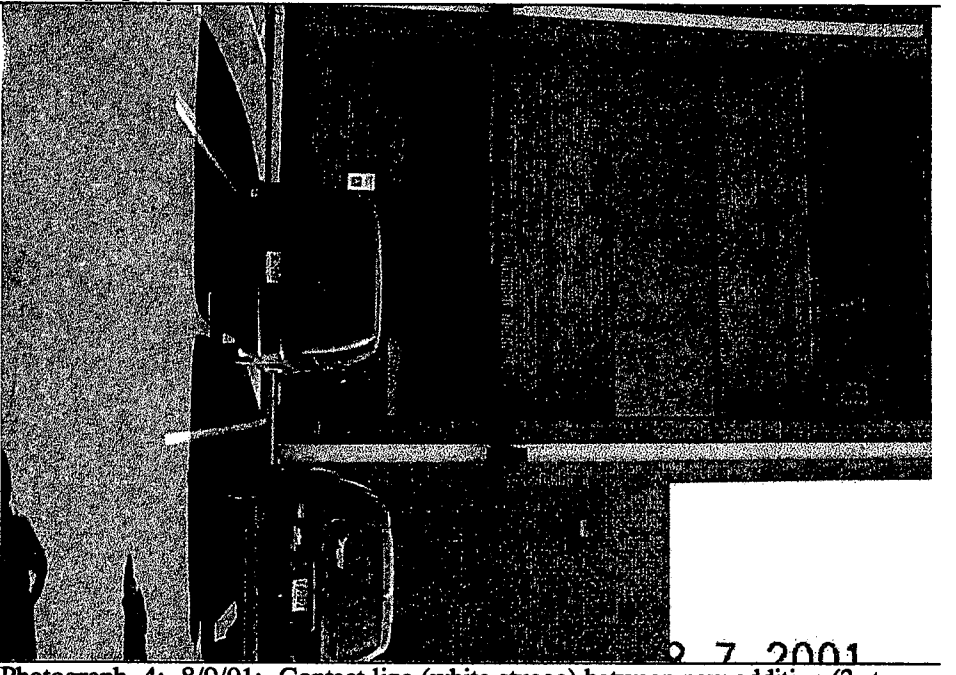
Photograph 1: 8/9/01: Main entrance to building (new addition) facing towards North Street.



Photograph 2: 8/9/2001: Main entrance of building (new addition), facing towards rear of property.



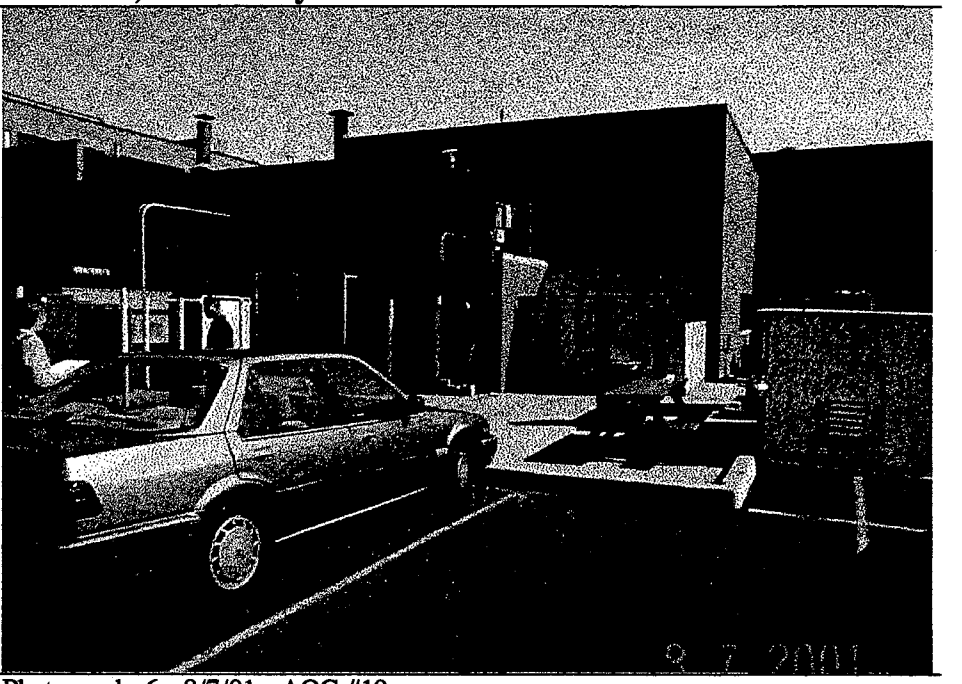
Photograph 3: 8/9/01: Information Technology (IT) computer area, presently located at AOC #17.



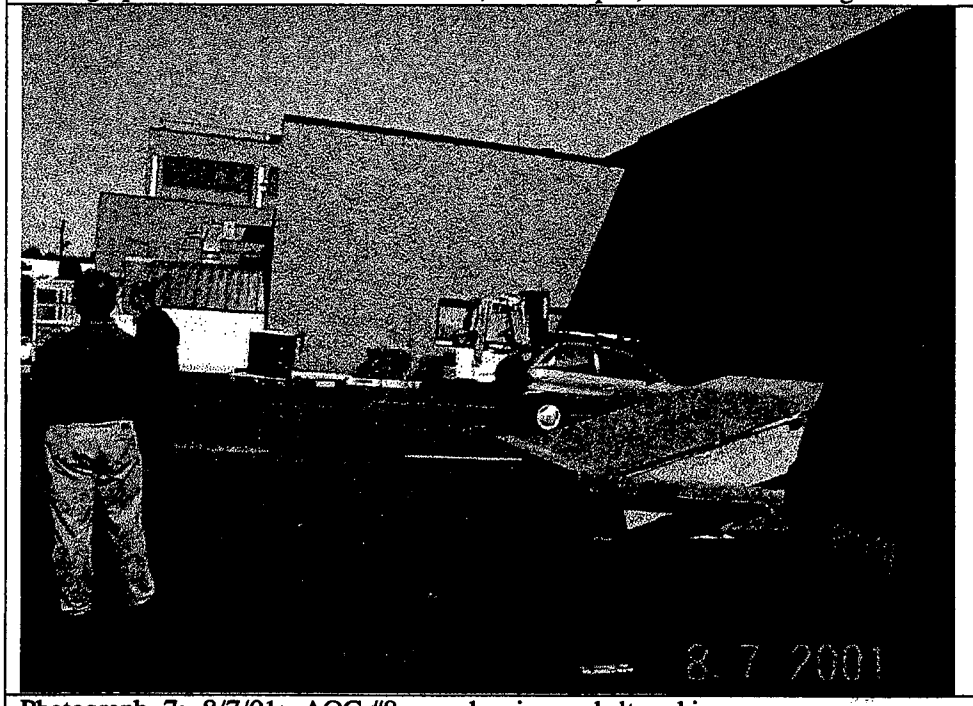
Photograph 4: 8/9/01: Contact line (white stucco) between new addition (3 story brick) and original (1 story brick) building.

Former Florasynth Facility, Teterboro, New Jersey

Photograph 5: 9/4/01: AOC #10a area, concrete pad, utilities and storage shed.



Photograph 6: 8/7/01: AOC #10a area.

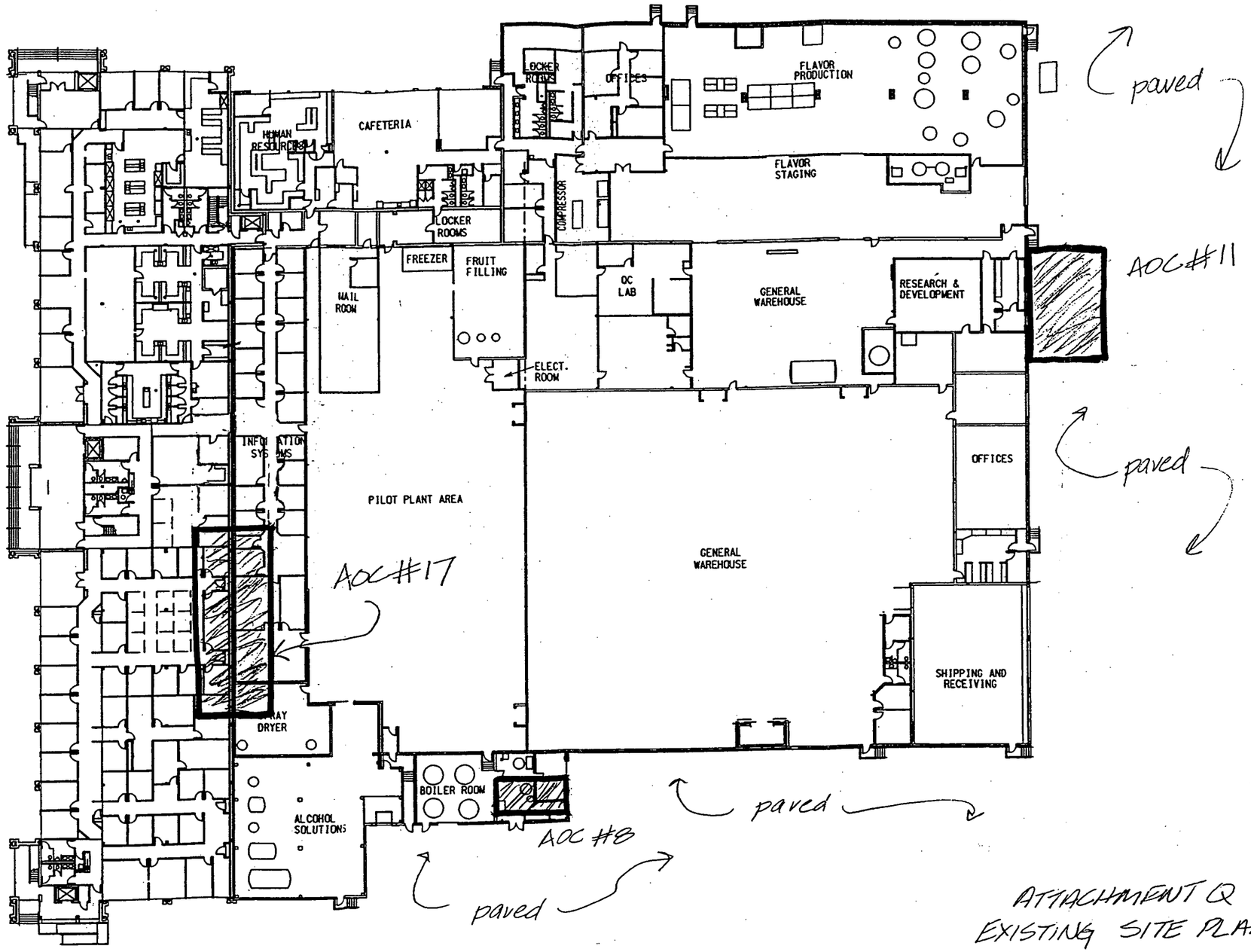


Photograph 7: 8/7/01: AOC #8 area showing asphalt parking area.

ATTACHMENT I

Current Floor Plan of 300 North Street, Teterboro, New Jersey

NORTH STREET



ATTACHMENT Q
EXISTING SITE PLAN

NORTH	NO.	DATE	BY	CK.	REVISION
	IV				
	III				
	II				
	I				

DWN. B.T. DATE 03-01-99
CHK. D.S. DATE 03-01-99
APPR. DATE
SCALE:
FILE NAME LAYOUT300.DGN

SHEET OF

Haarmann & Reimer

LAYOUT PLAN
300 NORTH STREET TETERBORO, NJ

ACCEPTED BY: DWG. NO. 1 C

ATTACHMENT J

Report Certification

CERTIFICATIONS
N.J.A.C. 7:26E-1.2, *et seq.*

Any person making a submission to the Department required by this chapter and pursuant to N.J.A.C. 7:26E shall include the following signature and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g., Remedial Action Report, for each technical submittal.

TYPE OF DOCUMENT Remedial Investigation Report/Remedial Action Workplan

CASE NAME Florasynth, Inc.

CASE ADDRESS 300 North Street, Teterboro, Bergen County, New Jersey

CASE NUMBER 95108

The following certification shall be signed by:

1. For a corporation; by a principal executive officer of at least the level office of vice president;
2. For a partnership or sole proprietorship, by a general partner of the proprietor, respectively, or;
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.
4. For persons other than 1 through 3 above, by the person with legal responsibility for the site.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement that I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

PRINTED NAME Klaus Birchenstaedt TITLE President

SIGNATURE DATE 16th of January 2002

NOTARY SIGNATURE Candace L. Powell DATE Jan. 16, 2002

CANDACE L. POWELL
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Sept. 8, 2004

E:\201162\RIR-RAWCERTIFICATION FORM-2002.DOC

Baker

Baker Environmental, Inc.
A Unit of Michael Baker Corporation

307 College Road East
Princeton, New Jersey 08540

(609) 734-7900
FAX (609) 734-7950

HAND DELIVERED

March 6, 2000

Ms. Sylvia Pearce
New Jersey Department of Environmental Protection
Industrial Site Evaluation Element
Bureau of Environmental Evaluation, Cleanup and Responsibility Assessment
P.O. Box 432
401 East State Street, Fifth Floor
Trenton, New Jersey 08625

Re: Remediation Agreement In the Matter of Florasynth, Inc. (Florasynth)
Teterboro, Bergen County
ISRA #95108
NJDEP Letter dated January 3, 2000
Response to Comments on Site Assessment Report/
Underground Alcohol Storage Tank Closure dated October 31,1997
Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998

Dear Ms. Pearce:

On behalf of Florasynth, Inc. (Florasynth), we offer the following responses to comments in your letter dated January 3, 2000. The original text of your letter is included. Specific comments by the Department or requirements for additional information are highlighted in **bold**, and Florasynth's responses are *italicized.*

I. Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31,1997:

A. Soil Conditions

Summary:

This site assessment was prepared to document the closure activities associated with one 8,000-gallon underground storage tank (UST) containing denatured alcohol.

An expansion of the facility is currently under construction. The UST was closed due to its location in the construction area. No known discharges from this UST were on file. Denatured alcohol (ethanol and tert-butyl alcohol) was stored in the UST for use within the facility.

All excavated soil was staged in an area adjacent to the UST excavation. The final excavation depth was approximately 11.5 feet below ground surface (bgs). Groundwater was not encountered during excavation. The excavated soil was screened for volatile organic vapors with an Hnu. No volatile organic vapor levels above background levels (2 ppm) were recorded. No staining of the excavated soil or excavation walls was observed. A visual inspection of the UST did not reveal any holes or other evidence that the UST's integrity had been compromised. The UST was pressure tested for tightness.

Seven soil samples were collected from the UST excavation subsequent to the UST removal. Six of these samples (A-1 through A-6) were collected at the base of the sidewalls of the excavation at a depth of approximately 11.5 feet below grade. The remaining soil sample (A-7) was collected with the interval 0 to 6 inches below the product piping. Soil samples collected at a depth of 11.5 feet were collected from the center of the excavator bucket due to safety concerns. The sample collected at 3 feet below grade was collected directly from the sidewall of the excavation. No samples were

collected along the centerline of the UST due to the presence of a concrete slab. A summary of the analytical data is below.

Sample ID	Ethanol (mg/kg)	Tert-butyl alcohol (mg/kg)
A-1	ND	ND
A-2	ND	ND
A-3	1.930	ND
A-4	ND	ND
A-5	ND	ND
A-6	ND	0.230E
A-7	ND	ND

E = Concentration was below method detection limit, value is estimated.
ND = Not Detected

Tert-butyl alcohol, a denaturing agent, is on the New Jersey Hazardous Substance list. However, laboratory data indicated that tert-butyl alcohol was not detected in any of the soil samples at levels above the method detection limit.

Florasynth's Proposal:

Based on analysis of the post-excavation soil samples, there was no contamination of the subsurface by the contents of the UST. In addition, a tank tightness test was performed on the UST which indicated that the UST was not leaking. There does not appear to be any environmental concern associated with this UST and No Further Action (NFA) is proposed.

NJDEP Response:

The remediation of the AOC# 6 the 8,000 Gallon Alcohol UST Number 1 has been completed at this time. A No Further Action/Covenant Not To Sue will be issued for the industrial establishment at the completion of the ISRA case and after the filing of all applicable institutional controls.

Florasynth Response:

The Department on March 23, 1998 issued a "No Further Investigation Approval Letter". The approval letter is contained in Attachment A.

B. QA/QC REVIEW

The data package was complete. The results are acceptable as presented.

LABORATORY SELECTED:

ENVIROTECH RESEARCH, INC.
777 New Durham Road
Edison, New Jersey 08817
New Jersey Certification 12543

Baker

II. Remedial Investigation/Remedial Action Report and Remedial Action Workplan dated December 4, 1998:

A. Soil Conditions

1. Summary:

The primary Area of Concern is AOC#8. The Underground Storage Tank was removed. After the tank was removed, soils were excavated. Some of the claims of Total Petroleum Hydrocarbons (TPHC) contaminated soils being removed appear to be incorrect. Soils west of the UST remain with TPHCs above the 10,000parts per million (ppm) maximum for total organic contaminants. Contaminated soils were excavated in AOC#17, the Potwash Area, but the reports documenting the activities are poorly written.

NJDEP Response:

Florasynth shall compare all soil sampling results to the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) for the purposes of delineation to a clean zone and the filing of a Deed Notice. In addition, if a contaminant is present in ground water at a concentration greater than the ground water quality standard, then Florasynth shall compare all soil sampling results for that contaminant to the Impact to Ground Water Soil Cleanup Criteria (IGWSCC) for the purposes of developing a remediation plan for that contaminant.

Florasynth Response:

Attachment B to this letter contains revised summary tables of laboratory analysis results for post-excavation samples in AOC#8, AOC#10, AOC#11 and AOC#17 with an additional column comparing the results to the RDCSCC or IGWSCC, as appropriate. Based on the results shown in these tables, Deed Notices are proposed for AOC #8, AOC #11, and AOC #17 where levels of contamination above RDCSCC remain. No further action is proposed for AOC #10, AOC #12, and AOC #18 as no results above RDCSCC were found.

2. Summary:

Florasynth reports that the following AOCs have been identified at the site. The highlighted AOC numbers 8, 10, 11, 12, 16, 17 and 18 are addressed in this report.

NFA '97

AOC #1	Stressed Vegetation
AOC #2	Small Vent Pipes
AOC #3	Cut Pipe
AOC #4	White Pipe
AOC #5	Manhole
AOC #6	8,000 Gallon Alcohol UST No. 1
AOC #7	Ethyl Alcohol UST No. 2
AOC #8	**Abandoned 20,000 Gallon No. 4 Fuel Oil UST** ✓ S1/RIWP Deed Notice
NFA AOC#9	Former 10,000 Gallon No. 2 Fuel Oil UST
AOC #10	**Spill Containment UST's** ✓ S1/RIWP NFA
AOC #11	**Storage Area (Exterior)** ✓ S1/RIWP Deed Notice
AOC #12	**Former Electrical Transformers** ✓ NFA
NFA AOC#13	Asbestos
NFA AOC #14	Fill Material
NFA AOC #15	Production/Reinjection Well
AOC #16	**Groundwater** ✓ S1/RIWP
AOC #17	**Potwash Area** — Deed Notice.
AOC #18	**Motor Fuel UST's** } Observed during investigation of other sites NFA.

AOCs 1 through 7, 9, 13, 14 and 15 were granted "No Further Action" by NJDEP prior to May 1997. Investigation of AOC #8, AOC #10, AOC #11, AOC #12 and AOC #16 were performed in accordance with the conditionally approved Site Investigation/ Remedial Investigation Workplan (SI/RIWP). As the NJDEP was previously notified, AOC #17 and AOC #18 were discovered during the course of investigating the other AOCs and during construction activities on site. The location of the AOCs addressed in this RI/RA/RAW Report is located in Figure 1 of said report.

NJDEP Response:

NJDEP has reviewed the case file and has identified the documents which contain NFA information for the AOCs.

AOC #1	Stressed Vegetation: NFA issued June 17, 1997, letter to David J. Freeman, Battle Fowler, from John Graham, NJDEP.
AOC #2	Small Vent Pipes: NFA issued December 13, 1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP.
AOC #3	Cut Pipe: NFA issued December 13,1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP.
AOC #4	White Pipe: NFA issued December 13, 1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP.
AOC #5	Manhole: NFA issued December 13, 1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP.
? AOC #6	8,000-Gallon Alcohol UST No. 1: Referenced in the Site Assessment Report/Underground Alcohol Storage Tank Closure dated October 31, 1997 comments section above. — #6
AOC #7	Ethyl Alcohol UST No. 2: NFA issued December 13, 1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP.
AOC #8	**Abandoned 20,000 Gallon No. 4 Fuel Oil UST** Deed notice proposed
AOC#9	Former 10,000-Gallon No. 2 Fuel Oil UST: NFA issued March 14, 1997, letter to David J. Freeman, Battle Fowler, from Stephen Maybury, NJDEP, p.2.
AOC #10	**Spill Containment UST's** NFA proposed
AOC #11	**Storage Area (Exterior)** Deed notice proposed
AOC #12	**Former Electrical Transformers** NFA proposed
? AOC#13	Asbestos: Dec. 13, 1996, letter to David J. Freeman, Battle Fowler, from Maurice Migliarino, NJDEP, p.5, #21. ?
? AOC #14	Fill Material
AOC #15	Production/Reinjection Well: See the AOC sheet, NFA issued December 16, 1996, from Robert Bechtold.
AOC #16	**Groundwater**
AOC #17	**Potwash Area** Deed notice
AOC #18	**Motor Fuel UST's** NFA

AOC #8, #10, #11, #12, #14, #16, #17, #18 have not been issued a No Further Action letter by NJDEP.

Florasynth Response:

We concur that AOC #8, AOC #10, AOC #11, AOC # 12, AOC #16 and AOC #17 have not received "No Further Action" approval from NJDEP. With respect to AOC #14, our records confirm that in a letter dated March 14, 1997 from Stephen Maybury of NJDEP to David J. Freeman of Battle Fowler, under Item I, referencing the fill material for the former 10,000 gallon, #2 fuel oil UST (which is AOC#14) "...the Department has determined that no further action is required in this area with regard to soils issues." A copy of the letter is contained in Attachment C. This letter addresses AOC#1, AOC #9 and AOC#14.

3. Summary:

Florasynth reports that no ground water aquifers were encountered in the soil borings performed during previous investigations, the Remedial Investigation (RI) or Remedial Action (RA) at the Site. Where observed, trapped water was encountered within loose porous fill materials, limited to the relatively shallow fill soil materials overlying the silty clay stratum in soils adjacent to building foundations and buried subsurface structures.

Florasynth's Proposal:

Florasynth considers that the trapped water likely results from surface runoff and flooding and that the silty clay stratum acts as an aquiclude to vertical migration.

NJDEP Response:

See comments in Ground Water section below.

4. Summary:

Florasynth reports that RI activities were performed under an NJDEP approved RI Work Plan, dated October 31, 1996 and Addendum dated January 20, 1997. The remedial investigation activities for each of the identified AOCs were conducted from July 1997 through April 1998. Activities included the drilling of soil borings using pod mounted Geoprobe ™ drilling equipment. In four of the borings, temporary Passively Placed Narrow Diameter Points (PPNDP) were installed to facilitate the collection of ground water samples as an alternative to installing monitoring wells within the building.

NJDEP Response:

Florasynth shall identify the coring device used to collect soil samples for analysis of Volatile Organic Compounds (VOCs).

Is this in accordance with Technical Requirements for Site Remediation (TRSR)?

Florasynth Response:

NJDEP - collect another sample

Soil samples collected for volatile organic analysis under the original, approved RI Workplan were collected from acetate tubes driven by a macro core sampler, in accordance with the NJDEP Field Sampling Procedures Manual. Later soil samples collected for volatile organic analysis were collected in accordance with the field procedures for extraction/ preservation by methanol extraction using a modified 10cc syringe to obtain the sample from the acetate tube driven by the macro core sampler.

7:26 K - 3.6

5. Summary:

AOC #8 Abandoned 20,000 Gallon No. 4 Fuel Oil UST

Florasynth reported that the #4 fuel oil UST is situated beneath the concrete floor of the butter rendering room in the structure's interior (Site Investigation Report, November 29, 1995). The reinforced concrete floor appeared to be in good condition with no visible cracks. It was originally installed in 1950 by the former owner of the facility and at that time was situated outside the building footprint. Subsequent extensions to the rear portion of the building covered the tank with the reinforced concrete floor slab of the building. The #4 fuel oil tank was closed in place in 1975 by filling it with clean sand and sealing/removing the fill ports and discharge pipes. No documentation is available regarding the status of the tank prior to its closure in place. A sampling program, designed to assess any impact of the tank contents on the surrounding soils and groundwater, was conducted. During June 13-14, 1995, a total of 22 soil samples were collected from 16 soil boring locations. Additional confirmatory sampling was conducted on October 19, 1995, with a total of 9 soil samples collected from 6 boring locations.

A summary of detected compounds was provided in Table 1 (SI Report). TPHC was detected in 17 of the of the 26 samples collected, ranging from 13 ppm (GP-20, 2.5-3.0') to 40,000 ppm (GP-15, 3.0-3.5'). Two samples, GP-15 (3.0-3.5') 40,000 ppm TPHC and GP-6 (6.0-6.5') 12,000 ppm TPHC, had TPHC concentrations above the NJDEP Guideline concentration for total organic compounds of 10,000 ppm.

Carcinogen Polycyclic Aromatic Hydrocarbons (CaPAHs) were detected in 9 of the 20 samples analyzed for these constituents. As indicated in Table 1 of the SI Report, no CaPAHs were detected above NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC). However, samples GP-6 (6.0-6.5'), GP-10 (2.5-3.0'), and GP-15 (3.0-3.5') indicated elevated method detection limits (due to dilution) that exceed the NJDEP Soil Cleanup Criteria of various CaPAHs (in 1995, but not after the Soil Cleanup Criteria were revised on 7/11/96).

Florasynth, while trying to argue that the TPHC concentration at GP-6, at a depth of 6.0-6.5', was horizontally delineated, made the following statement: "Due to the new construction at this location, this depth equates to approximately 3.0' below grade in the butter room area."

During the 1997 RI activities conducted at the Site, a series of 20 soil borings (GP-23 through GP-43) were performed adjacent to the former tank, product piping and fill line (Figure 3 of the RI/RAR/RAW Report).

In 4 soil borings, PPNDP were installed to facilitate the collection of water samples. Water samples were collected and submitted for analyses including Volatile Organics with forward library search (VO+10), Base Neutrals with forward library search (BN+15) and water quality parameters (Table 13 of the RI/RAR/RAW Report).

The tank bottom was sounded to a depth of 14.7 feet below the maintenance room floor.

RI Laboratory Analytical Data

Soils

GP29A (7.5-8.0')
TPHC 31,900 mg/kg > 10,000 mg/kg maximum for total organic contaminants

GP30A (7.5-8.0')
TPHC 17,200 mg/kg > 10,000 mg/kg maximum for total organic contaminants

GP30B (11.5-12.0)
TPHC 11,300 mg/kg > 10,000 mg/kg maximum for total organic contaminants

Water, Analytical data are further described in section 5.5 of the RI/RAR/RAW Report.

In October and November 1997, the 20,000-gallon UST system was closed by removal during demolition activities related to the facility renovation. Remedial activities included the demolition of portions of the existing building over the tank and fill lines. Prior to excavation, soils in the proposed excavation area were sampled in-place and characterized for waste disposal purposes (Table 4 of the RI/RAR/RAW).

PX6, S2 (3.5-4.0')
TPHC 20,200 mg/kg > 10,000 maximum for total organic contaminants

PX15, Tank (4.5-5.0)
TPHC 26,100 mg/kg > 10,000 maximum for total organic contaminants

PX11, S1 (0.5-1.0)
Copper 2,430 mg/kg > RDCSCC

Florasynth reports that during closure activities, impacted soils surrounding the UST were excavated, stockpiled and then disposed of. The contents of the UST, including free product and sludge, and water encountered in the excavation area, was removed. Excavation of petroleum impacted soils was limited west of the UST area in the direction of the boiler room due to access restrictions within the existing building and the proximity to underground electric lines and process equipment in this area. As a result, petroleum contaminated soils and the product supply and return lines were left in place in the subgrade within the maintenance and boiler rooms of the building. Upon completion of the UST closure operations, the excavation areas were backfilled with "certified clean" 1-1/2 inch clean coarse, crushed stone to finished subgrade elevations. This type of material was used to provide a stable subbase for paving of the area. The area of concern was then paved with bituminous pavement. At the western limit of the excavation area, a building wall foundation was constructed to support the portions of the building remaining in place.

RA Laboratory Analytical Data: Post-excavation soil sample locations are presented in Figures 4A and 4B. A summary of the post excavation soil samples collected from the UST excavation area are presented in Table 5 of the RI/RAR/RAW Report.

X52A_.5 (5.0-5.5) (U = Not Detected)
TPHC 57,400 mg/kg > 10,000 mg/kg maximum for total organic contaminants
Benzo(a)anthracene 2.8 mg/kg > RDCSCC
Benzo(b)fluoranthene 1.7 mg/kg (estimated value) > RDCSCC
Benzo(a)pyrene 1.5 mg/kg (estimated value) > RDCSCC
Benzo(k)fluoranthene U with an elevated detection limit of 1.9 ppm
Indeno(1,2,3-cd)pyrene U with an elevated detection limit of 1.9 ppm
Dibenz(a,h)anthracene U with an elevated detection limit of 1.9 ppm

X53A_.5 (5.0-5.5)
TPHC 44,000 mg/kg > 10,000 mg/kg maximum for total organic contaminants
Benzo(a)anthracene 1.6 mg/kg > RDCSCC
Benzo(a)pyrene 0.68 mg/kg (estimated value) > RDCSCC
Benzo(b)fluoranthene U with an elevated detection limit of 0.94 ppm
Benzo(k)fluoranthene U with an elevated detection limit of 0.94 ppm
Indeno(1,2,3-cd)pyrene U with an elevated detection limit of 0.94 ppm
Dibenz(a,h)anthracene U with an elevated detection limit of 0.94 ppm

X59-2.25 (2.25-2.75)
TPHC 18,300 mg/kg > 10,000 mg/kg maximum for total organic contaminants
Benzo(a)anthracene 0.95 mg/kg > RDCSCC

Florasynth's Proposal:

Florasynth reports that the abandoned 20,000-gallon fuel oil UST system has been closed by removal. Petroleum contaminated materials have been removed from the north, east and south sides of the UST area. Petroleum contaminated soils remain in the subsurface beneath portions of the existing building. Additional excavation of the petroleum impacted soils and former product supply lines is not considered practical since this area is beneath an existing building containing electrical and mechanical systems required for facility operations. The extent of petroleum contamination remaining in the subsurface has been delineated and is limited in extent, both horizontally and vertically. The building acts as an engineering control. In addition, the contaminant levels are expected to decrease over time as they degrade. A deed notice is proposed for this area as shown on Figure 9 of the RI/RAR/RAW Report.

NJDEP Response:

Florasynth's proposal is unacceptable.

Florasynth shall provide a cross sectional diagram of this AOC so that the depth of sample locations can be compared relative to the maintenance room floor.

Florasynth Response:

Attachment D contains two cross sectional diagrams of AOC #8. The locations of sections A-A (north-south) and B-B (east-west)are shown in the Cross Section Location Plan in Attachment D . It is important to consider that several rounds of sampling and analysis were performed in this area: two rounds prior to tank removal/building demolition; one round of pre-excavation sampling and analysis (for waste characterization purposes); and one round of post-excavation sampling and analysis. As shown on these cross sections, the point of reference for sample depth changed from the initial investigations and pre- and post-excavation. It would also be expected that a variation of +, - six inches in depth, and several feet in length would not be uncommon, given that the areas were not surveyed (nor were they required to be surveyed) and the reported depths are based on field measurements only.

The figure in Attachment F (revised Figure 4B) shows the approximate limits of the excavation in this area. Please note that the areas where samples GP-29, GP-30, PX6, and PX11 were collected were all excavated. The approximate limits shown on Section A-A and Section B-B are considered conservative, since the thickness of the floor slab was not accounted for (the actual excavation depth would be slightly greater). Sample PX15 was collected from inside the UST. All the material inside the UST was containerized and disposed off-site. Sample locations X52A, X53A and X59 are all contained within the proposed Deed Notice Area.

The extent of petroleum contamination remaining in the subsurface has been delineated and is limited in extent, both horizontally and vertically. The building also acts as an engineering control. In addition, the remaining contaminant levels are expected to decrease over time as they degrade. A deed notice is appropriate for this area as no exposure pathway exists.

Florasynth shall explain what direct reading instrument was used to field screen the soil samples.

Florasynth Response:

An Hnu PID 101 was used for field screening.

Florasynth shall provide a Figure showing the sampling locations for the PX series of samples listed in Table 4 of the RI/RAR/RAW Report.

Florasynth Response:

Attachment E contains a sketch of the sampling locations. These samples were collected for waste characterization purposes, prior to building demolition and UST removal. The pre-excavation (PX) samples were collected to expedite disposal approval. Sample depths are shown on Table 4 in the RI/RA/RAW Report.

The NJDEP disagrees with Florasynth's conclusion that "Based upon the excavation and post-excavation sample results, the extent of contamination has been fully delineated and is shown on Figure 4. (of the RI/RAR/RAW Report)" For example, RI sampling location GP-29A had 31,900 mg/kg of TPHC at a depth of 7.5-8.0'. GP-29A is located between post-excavation samples X14 and X15, which were collected at a depth of 5-5.5'. Therefore, GP-29A was not excavated. Another example is RI sampling location GP-30, A and B. GP-30A had 17,000 mg/kg of TPHC at a depth of 7.5-8.0'. GP-30B had 11,300 mg/kg of TPHC at a depth of 11.5-12.0'. GP-30 is directly east of GP-29 and it is in the vicinity of post-excavation sample X16, which was collected at a depth of 4-4.5'. Therefore GP-30A and GP-30B were not excavated.

Florasynth Response:

Revised Figure 4B contained in Attachment F shows the sampling locations GP-29 and GP-30 relative to the post-excavation samples. The sketch also shows approximate depths of the excavation. The cross sections in Attachment D show the approximate depth of the excavation. Based on these figures, sample GP-29 was within the deepest part of the excavation and clearly excavated. Sample GP-30 was also excavated as its location is within the accuracy of the field measurements and allowance for excavation sideslopes. Please note, Figures 3 and 4B, contained in the RI/RAR/RAW report are not at the same scale. This may have caused some confusion to reviewers in locating the samples relative to the excavation. Depth measurements in Figure 3 included the floor slab thickness and crushed stone base layer. Depth measurements for post-excavation samples were measured in the field. Therefore, the post-excavation depths can not be directly compared to pre-excavation depths.

The figures contained in the RI/RAR/RAW Report were developed from historic mapping and field measurements. Based on our experience at this site, levels of TPH on the scale of what were present in samples GP-29 and GP-30 would have been visually identified as contaminated. All accessible, visually contaminated soil was removed from this area. A significant amount, approximately 1888 tons, of material was removed from the area for proper disposal.

Florasynth shall discuss the horizontal delineation of TPH at GP-15 and GP-6.

Florasynth Response:

The figure in Attachment G shows the horizontal delineation of GP-15. As shown in Attachment G, the majority of contamination was located on the northern side of the UST piping and did not appear to migrate across the piping or underneath the boiler room. The GP-15 location is included within the Proposed Deed Notice Area.

The location of GP-6 was eventually excavated (see cross section B-B in Attachment D). The figure in Attachment F shows the approximate location of GP-6 relative to post-excavation depths and sampling locations.

The sample IDs in Figure 4B should be corrected to match the sample IDs in Table 5 of the RI/RAR/RAW Report.
The sample location between 36 and 21 has no sample ID. Florasynth shall make these corrections.

Florasynth Response:

The requested changes/corrections have been made. A revised Figure 4B is included in Attachment F. The proposed Deed Notice Area is shown in Attachment G.

Florasynth shall include the contaminants in samples X52A, X53A and X59-2.25 in a Deed Notice.

Florasynth Response:

As soon as the Department approves No Further Action for AOC #8, Florasynth will prepare a Draft Deed Notice to include the contaminants in samples X52A, X53A and X59-2.25. The limits of the Proposed Deed Notice Area are shown in greater detail on the figure in Attachment G.

Florasynth shall correct the Sample IDs in Figure 4A to match the Sample IDs in the first page of Table 5 of the RI/RAR/RAW Report.

Florasynth Response:

Figure 4A has been revised and can be found in Attachment H.

Florasynth shall correct the Sample IDs in Figure 4B to include Sample ID X31_2FG and Sample ID X32_0FG to match the Sample IDs in Table 5 of the RI/RAR/RAW Report.

Florasynth Response:

Figure 4B has been revised and can be found in Attachment F.

Florasynth shall correct the Sample IDs in Table 5 to include Sample 41 and Sample 34B to match the Sample IDs in Figure 4B of the RI/RAR/RAW Report.

Table 5 has been revised and can be found in Attachment B.

Florasynth shall collect a soil sample northwest of the boiler room at a depth below ground surface equal to the depth below ground surface of the bottom of the underground storage tank and Florasynth shall have the soil sample analyzed for TPHC and Polycyclic Aromatic Hydrocarbons (PAH), as per N.J.A.C. 7:26E-2.1(d), in order to demonstrate that Florasynth has delineated the TPHCs northwest of the boiler room to a clean zone.

Florasynth Response:

Based on the Figure in Attachment G, TPHC migration was limited in area (northern side of UST piping) and depth (0.5 to less than five feet below the finished floor) and did not extend to the area northwest of the boiler room. A clean zone has already been established by the results from samples within the maintenance/mechanical room (GP-34, GP-18, GP-14, GP-19, GP-31), samples outside the maintenance/mechanical room (GP-35, GP-17), and samples inside the boiler room (GP-32, GP-33, and GP-20). Collection of additional soil samples is therefore not warranted. In addition, access to sampling locations within the boiler room and mechanical/maintenance room is limited due to the presence of high voltage electrical service connections beneath the floor and the presence of boilers and other machinery in both rooms which present extreme safety hazards and space limitations.

6. AOC #10 Spill Containment Tanks

Summary:

Florasynth reports that three spill containment tanks identified as AOC#10a, 10b, and10c have been identified on the property (Figure 1 of the RI/RAR/RAW Report). These spill containment tanks are/were connected to floor drainage systems within the facility and are/were designed to intercept and contain accidental product spills in the facility. The tanks are constructed of concrete and the tanks are approximately 500 to 1000-gallons in capacity. Piping to the spill containment tanks includes standard floor drains in the building interior and Polyvinyl Chloride (PVC) pipe exterior to the building.

At the present time, two spill containment tank systems are still in place: the system located near the northeast corner of the building (AOC#10c) and the system located adjacent to the loading dock area on the east side of the building (AOC#10b). Both systems have approved closure plans and the tanks will be closed by removal in the future. The spill containment tank located south of the building (AOC #10a) was closed by removal during October 1997. No previous data exist to document subsurface conditions in the vicinity of the spill containment USTs.

RI Activities: A series of soil borings (GP-47 through GP-58) were located in areas surrounding each of the spill containment tanks (Figures 5A, 5B, and 5C, Tables 6, 7 and 8 of the RI/RAR/RAW Report). Additionally, a sample of the liquids present in the AOC #10a tank was analyzed for waste classification purposes (Table 9 of the RI/RAR/RAW Report). Soil samples were analyzed for the parameters shown in Table 1 of the RI/RAR/RAW Report. Florasynth claims that no samples collected from AOC #10b or 10c exhibited concentrations above NJDEP SCC. Both systems were dry at the time of the investigation. At AOC #10a, in one soil sample collected from GP-47 at a depth of 5 to 6 feet bgs, PCBs were detected at concentrations exceeding NJDEP RDCSCC. In samples GP-47, GP-48 and GP-50, methylene chloride was detected above the IGWSCC of 1 ppm at concentrations ranging from 2.3 to 17 ppm.

AOC#10a

GP47S1 (4.5-5.0')
Methylene Chloride 4.800 mg/kg > IGWSCC

GP47S2 (5.0-6.0)
PCBs 1.45 mg/kg > RDCSCC

GP48S1 (0.5-1.0')
Methylene Chloride 2.300 mg/kg > IGWSCC

GP48S2 (4.5-5.0')
Methylene Chloride 12.000 mg/kg > IGWSCC

GP50S1 (0.5-1.0')
Methylene Chloride 17.000 mg/kg > IGWSCC
Total Estimated Conc. VOA TICs 1,720.000 mg/kg > 1,000 mg/kg maximum for total VOCs

RA (Closure of Rear Spill Containment Tank): In October and November, 1997, following the closure of the 20,000-gallon fuel oil UST, the rear spill containment tank (AOC #10a) was also closed by removal. Liquids contained in the sump were removed and the tank was cleaned. The tank and area surrounding the tank was excavated to a depth of approximately 6 feet below existing grade.

Following UST closure, a series of post-excavation soil samples were collected from the subgrade soils and submitted for laboratory analyses. Sampling locations are shown on Figure 4B of the RI/RAR/RAW Report. Laboratory analytical results are presented in Table 10 of the RI/RAR/RAW Report.

X43-2 (2-2.5')
Benzo(a)anthracene 1.800 mg/kg > RDCSCC
Benzo(b)fluoranthene 3.000 mg/kg > RDCSCC
Benzo(k)fluoranthene 1.100 mg/kg > RDCSCC
Benzo(a)pyrene 1.600 mg/kg > RDCSCC
Indeno(1,2,3-cd)pyrene 1.200 mg/kg > RDCSCC
Arsenic 64.1 mg/kg > RDCSCC

X48-6 (6-6.5')
Arsenic 22.4 mg/kg > RDCSCC

Florasynth's Proposal:

Florasynth reports that three existing spill containment tanks have been investigated at this Site. No contaminants of concern were detected in soils at concentrations exceeding NJDEP Soil Cleanup Criteria at the front and loading dock spill containment UST's. The rear spill containment UST has been successfully closed by removal. Impacted soils were removed. No further action is proposed for the rear spill containment UST. It is the NJDEP's understanding that the facility plans to close the front and loading dock spill containment systems in the future.

NJDEP Response:

Florasynth's proposal is unacceptable.

Florasynth shall provide the dimensions of the three spill containment tanks and the depth below ground surface (bgs) of the bottom of the three spill containment tanks.

Florasynth Response:

The requested information is contained on revised Figures 5A, 5B and 5C in Attachment I.

Florasynth shall describe the integrity of the spill containment tanks in AOC #10b and AOC #10c.

Florasynth Response:

This information is contained in the report of closure activities contained in Attachment J.

Florasynth shall describe the integrity of the spill containment tank in AOC #10a. Florasynth shall provide a diagram showing the horizontal extent of the excavation of the area surrounding the tank, showing the locations of GP-47, GP-48, GP-49 and GP-50, and showing the locations of the post excavation samples X43 through and including X49.

Florasynth Response:

Upon removal and visual inspection, the spill containment tank appeared to be of sound integrity. Further evidence of tank integrity is the observation of stormwater contained within the structure that entered from the surface through the manway.

The extent of the excavation and the sample locations, including the depth are shown on the figure in Attachment K.

In a letter dated August 13, 1997 from the Department to Florasynth, in response to a letter dated June 4, 1997 from Florasynth to the Department, it states in part that: "In correspondence dated April 28, 1997 the Department required that soil samples collected in AOC 10 be analyzed for VO+10, BN+15, Polychlorinated Biphenyls (PCB), and all constituents listed in Table 1, Hazardous Substance Inventory, October 31, 1996 RIW Addendum. ... Since thirty-five percent of the compounds in Table 1, Hazardous Substance Inventory, are included in the volatile organic compound library search (which will be run as part of the soil analysis for AOC 10), the Department agrees that additional analysis for the remaining compounds on this list is not required at this time. If sample results in this area of concern indicate elevated levels of any compound on the above referenced list, Florasynth will be required to perform additional analysis to include the remaining compounds." Therefore, Florasynth shall compare the VOC TICs with the compounds in Table 1, Hazardous Substance Inventory, October 31, 1996 RIW Addendum.

Florasynth Response:

A comparison of the VOC TICs to Table 1, Hazardous Substance Inventory was performed. The following substances listed on Table 1 were tentatively identified in Remedial Investigation samples:

<u>AOC 10a - Outside Former Natural Products Area</u>

GP-47S1 (collected from 4.5 to 5 feet bgs): hexane at 980 ppb (estimated concentration). There is no cleanup criteria for hexane. This sample location was eventually excavated. Hexane was not detected in the closest post-excavation sample X45-6 (approximate depth of six feet below ground surface).

GP-50S2 (collected from 4.5 to 5 feet bgs): acetone at 320 ppb (estimated value). The most stringent criteria is the Impact to Groundwater Cleanup Criteria of 100 ppm. This sample location was subsequently excavated. Acetone was detected at 45 ppb in post-excavation sample X48-6 and at 71 ppb in post-excavation sample 48-6.

AOC 10b – Loading Dock Area

None detected during Remedial Investigation. None detected in post-excavation samples.

AOC 10c – Front of Building

GP-56S3 (collected from 7 to 7.5 feet bgs): acetone at 9.3 ppb (estimated value). The most stringent criteria is the Impact to Groundwater Cleanup Criteria of 100 ppm.

GP-58S3 (collected from 7 to 7.5 feet bgs): methyl ethyl ketone at 66 ppb. The most stringent criteria is the Impact to Groundwater Cleanup Criteria of 50 ppm.

No targeted or tentatively identified organic compounds were detected in post-excavation samples.

It should be noted that, including targeted and tentatively identified compounds, no samples were above the 1,000 ppm maximum for VOCs.

Florasynth shall offer an explanation of how PCBs migrated to GP47S2 (5.0-6.0').

Florasynth Response:

Florasynth does not know the origin of PCB identified at GP47S2. We believe it to be an isolated hot-spot of unknown origin.

Based on sample results in the vicinity of GP47S2, we do not believe the PCBs migrated from former transformer areas. Based on the integrity of the sump, and the sample depth (5.0 to 6.0 feet bgs), we do not believe they migrated from the sump. If the sump were the source, PCBs would have been detected in other adjacent samples. Since PCBs were not detected, no further action is required.

Florasynth shall horizontally and vertically delineate the PCBs in GP47S2 (5.0-6.0').

Florasynth Response:

The figure in Attachment K shows that the extent of PCB in this area was excavated and no further delineation is required. Again, it appears that the PCBs detected in GP47S2 were a localized hot spot of unknown origin which was removed.

Florasynth shall horizontally and vertically delineate the VOCs at GP-50S1 (0.5-1.0').

Florasynth Response:

The figure in Attachment K clearly shows that the extent of VOCs in this area was excavated. The excavation was at least six feet in depth in this area. The majority of VOCs were present in the surface samples and extended to no deeper than five feet below ground surface. Post excavation samples X43-2, X44-5 and X45-6 did not contain VOCs above the RDCSCC. Therefore, no further delineation is required.

Florasynth shall horizontally and vertically delineate arsenic at X43-2 and X48-6.

Florasynth Response:

Florasynth should not be required to delineate the extent of arsenic at X43-2 and X48-6. Current and historic industrial site uses include flavor and fragrance blending and a winery operation. There is no indication that arsenic or arsenic-containing compounds were ever used in these processes. Florasynth does not believe the source of

elevated levels of arsenic is associated with any process or specific source at the site and may be attributable to natural background or historic fill material. Further, this area is currently paved and no exposure pathway exists.

7. AOC #11 Exterior Storage Area

Summary:

The storage pad area is located on the paved surface of the parking lot (which has been paved since at least 1975), and access is limited by a locking fence and gate (SI Report). Some minor surficial staining of the pavement overlying the storage pad was visible at the time of SI sampling, but no staining was visible outside the fenced area. The exterior storage area was approximately 40 feet by 60 feet located on the East Side of the building. The area was used for the storage of miscellaneous items including used storage containers. The area also contained a large above ground storage tank containing propylene glycol.

Previous analytical data from the exterior storage area included soil samples collected from 3 soil borings. Previous analytical results are presented in Table 2 of the RI/RAR/RAW Report. Base neutral organic compounds were detected exceeding NJDEP Soil Cleanup Criteria in sample GP-11 (0.0-0.5'): 2.00 ppm Benzo(a)anthracene, 1.70 ppm Benzo(b)fluoranthene, 1.50 ppm Benzo(k)fluoranthene, and 1.80 ppm Benzo(a)pyrene. Additional investigation was required to horizontally and vertically delineate the extent.

RI Activities: In July, 1997, a series of three soil borings (GP-44, GP-45 and GP-46) were performed in this area of concern to further evaluate the detected contamination. During the winter of 1998, the exterior storage area was demolished. The perimeter fence was removed and the above ground storage tank was closed. During the demolition work conducted in the exterior storage area, portions of the existing asphalt pavement were excavated and subgrade soils disturbed to remove concrete footings. A strong, pungent odor was observed in the disturbed soils in this area. The odor was not identifiable and dissipated completely. Following the completion of the demolition work, in April, 1998, an additional eight soil borings, designated A1 through and including A8, were performed in this AOC to investigate an odor observed in the area during demolition work. The A-series of soil samples were analyzed for VO+10 and BN+15. Soil boring locations are presented in Figure 6 of the RI/RAR/RAW Report. Laboratory analytical data are presented in Table 11 of the RI/RAR/RAW Report. Samples were collected from A1, A2, A3 and A5, but were not analyzed.

<u>Soils</u>

<u>GP44S1(0.5-1.0')</u>
Benzo(a)anthracene 1.100 mg/kg > RDCSCC
Benzo(b)fluoranthene 1.300 mg/kg > RDCSCC
Benzo(a)pyrene 1.100 mg/kg > RDCSCC

<u>GP46S1(0.5-1.0')</u>
Benzo(a)anthracene 3.700 mg/kg > RDCSCC
Benzo(b)fluoranthene 3.900 mg/kg > RDCSCC
Benzo(k)fluoranthene 1.600 mg/kg > RDCSCC
Benzo(a)pyrene 3.100 mg/kg > RDCSCC
Indeno(1,2,3-cd)pyrene 1.900 mg/kg > RDCSCC

<u>Groundwater</u>, Groundwater was not encountered in the soil borings in this area of the Site.

The exterior storage area was paved with approximately 6 inches of asphalt and crushed stone base. Soil immediately below the asphalt pavement included a gray silty clay to the completion depth of each boring. Groundwater was not encountered in the soil borings. No Photoionization Detector (PID) readings above background were observed.

Florasynth claims that based on the location and depth of samples exceeding Soil Cleanup Criteria, the levels are most likely attributable to asphalt and/or fill material.

Florasynth's Proposal:

Florasynth reports that the exterior storage area located on the eastern side of the facility has been investigated. The contaminants of concern detected at this AOC during the initial investigations were base neutral organic compounds. The source of these contaminants appears to be asphalt and/or fill material. The extent of contamination is limited in horizontal and vertical extent. The pavement acts as an engineering control. A deed notice is proposed for this area as shown on Figure 9 of the RI/RAR/RAW Report.

NJDEP Response:

Florasynth's proposal is unacceptable.

Florasynth shall include sampling results for GP-11, GP-12 and GP-13 in Table 2 of the RI/RAR/RAW Report.

Florasynth Response:

A revised Table 2, contained in Attachment L contains the requested information.

In the Department's letter of April 28, 1997, I. Soil Conditions, B. Exterior Storage Areas, Florasynth was directed to collect a soil sample at location GP-11 at a depth of 18 to 24 inches below ground surface for vertical delineation. Florasynth has not collected the required soil sample. Therefore, Florasynth shall collect a soil sample at location GP-11 at a depth of 18 to 24 inches below ground surface for vertical delineation.

Florasynth Response:

The required sampling locations in this AOC were revised based on a field visit with NJDEP representatives and accessibility of locations. We do not believe collection of additional samples in this area is warranted. Sample GP-46 was collected approximately three feet from the GP-11 location. Three samples were collected (maximum depth 4 to 4.5 feet bgs). Based on previous data from GP-11, GP-12 and GP-13 and analysis of three samples from each boring at GP-44, GP-45 and GP-46, the horizontal and vertical extent of base neutral organics above the RDCSCC has been delineated and does not extend beyond the limits of the former fence. The remaining contamination will be addressed through a Deed Notice and engineering control, therefore no further action is required. Please refer to the Revised Figure 6, located in Attachment L.

Florasynth shall explain why samples collected from A1, A2, A3 and A5 were not analyzed.

Florasynth Response:

There was no evidence (visual, olfactory, Hnu readings above background) to indicate contamination in the area where these samples were taken. Since the objective of investigation was to locate and identify the source of the "pungent odor", the samples collected from these locations were not analyzed. Other samples collected in the vicinity did not reveal concentrations above the RDCSCC.

Florasynth's claim that based on the location and depth of samples exceeding Soil Cleanup Criteria, the levels are most likely attributable to asphalt and/or fill material, is unacceptable since the integrity of the asphalt at this area is unknown and during both the March 19, 1996 preliminary site inspection and the November 8, 1996 interim site inspection, oil staining on the asphalt was observed at this area of concern. Potential sources of the oil staining and/or base neutral contaminants includes the automobile engine block, the compressor motor or generator and the dumpster present at this area of concern. All of these items may have contained oil products which may have contributed to the staining and contamination reported at sample location GP-11 (letter dated

December 13, 1996 to David J. Freeman from the Department). In addition, drums which had contained hazardous materials were stored on their sides in this area.

Florasynth Response:

It would not be uncommon to see oil staining on the asphalt in this area since it is a parking lot and loading dock area. There are no records and there is no evidence to indicate a significant spill in this area. The asphalt in the area is 4 to 6 inches in thickness (based on logs of borings in this area). The levels of base neutral organics detected in the shallow soil samples are only slightly over RDCSCC and the types of compounds detected are not associated with a winery operation or flavor and fragrance blending. Further "drums which had contained hazardous materials, were stored on their sides in this area" included empty containers only. The detected base neutral compounds would not be remnants from these containers or any other raw material or finished product from the facility. Based on these factors, Florasynth believes that the Department should concur that the levels of base neutral compounds identified are either associated with the asphalt or historic fill material.

In Table 11 of the RI/RAR/RAW Report, Florasynth reported a shortened list of VOCs and Semi-volatile Organic Compounds (SVOCs). Florasynth shall compare the VOC Tentatively Identified Compounds (TICs) and SVOC TICs to the Hazardous Substance Inventory.

Florasynth Response:

No compounds listed on the Hazardous Substance Inventory were detected in the VOC and SVOC library searches for samples collected from GP-44, GP-45, GP-46, A4, A6, A7, A8.

No samples collected in AOC #11 exhibited levels of total VOC above the 1,000 ppm maximum or total organics above the 10,000 ppm maximum.

Florasynth shall identify the source of the strong, pungent odor that observed in the disturbed soils.

Florasynth Response:

The investigation in this area was proactively performed in an attempt to identify the source of the odor. At this time, we believe the odor may have been trapped, stagnant water. No contamination was observed. The odor completely dissipated within less than 24 hours.

No samples collected in this area exhibited levels of total VOC above the 1,000 ppm maximum or total organics above the 10,000 ppm maximum.

8. AOC #12 Former Electrical Transformers

Summary:

The former electrical transformers were located exterior to the south side of the building adjacent to the maintenance area (Figure 1). Prior to this RI, the transformers were removed from the Site and a new electric supply system was installed. The NJDEP required collection and analysis of a sample in the vicinity of the former transformers. No previous data exist to document subsurface conditions in the vicinity of the former electric transformer bank.

RI activities conducted in this area of concern included one soil boring, GP-35, located immediately east and down slope from the former transformer bank area (see Figure 3). Access to this AOC was restricted due to existing electric underground lines.

To evaluate this area of concern, soil samples were collected at a depth of 0.5 to 1.0 feet bgs directly below the concrete slab and submitted for PCB analyses. Additional samples were also collected from this soil boring and submitted for

TPHC and BN+15 analyses to assist in the delineation of petroleum contamination associated with the former 20,000-gallon UST (AOC #8). GP-35 was also used for the installation of a PPNDP to sample water. Laboratory analysis results are summarized in Table 3 for AOC #8 and Table 12 for AOC #12.

Subsurface soils encountered in the soil boring included gray silty clay to 8 feet bgs. PID readings above background were not observed in the soil boring performed to a depth of 4 feet. For the subsurface interval between 4 to 8 feet bgs, PID readings averaged approximately 2 ppm above background.

Water was not initially encountered in the soil boring and was observed to slowly seep into the soil boring from beneath the concrete slab. On the following day, water was observed at a depth of 5.3 feet bgs. The amount of water available for sampling was limited indicating that the water encountered at this location, as elsewhere, was in a localized, trapped condition, due to surface runoff.

Laboratory Analytical Data

Soils

PCBs were not detected in the soil sample collected from the GP-35 location.

Water: Water analytical data are further discussed in section 5.5 of this report.

Florasynth's Proposal:

The former electrical transformer area on the south side of the Site has been investigated. No PCBs were detected in this area of concern. No further action regarding the former electrical transformers is required.

NJDEP Response:

Florasynth's proposal is unacceptable.

Florasynth shall offer an explanation of how PCBs migrated to GP47S2 (5.0-6.0'). [The spill containment tank, AOC #10a, is located adjacent to the former electrical transformers, AOC #12. If there was a spill or discharge of PCBs from AOC #12, then the PCBs could have migrated to GP47S2. If PCBs were in the spill containment tank, and if there was a crack in the spill containment tank adjacent to GP47S2, then the spill containment tank would be a source of PCBs.]

Florasynth Response:

As stated previously, the source of PCB is unknown, but believed to be an isolated hot-spot. Based on the location of AOC#12 relative to GP47 and the relative immobility of PCBs, we do not believe that PCB would migrate such a great distance without also being detected in other samples collected in this area.

Florasynth shall horizontally and vertically delineate the PCBs in GP47S2 (5.0-6.0').

Florasynth Response:

As stated previously, the hot-spot area was excavated and no additional delineation is required. Pre- and post excavation samples collected at X45-6, PX-14 (4.5 to 5 feet bgs), X48-6, GP-48, GP-49, GP-50, X44-5 and X46-3 were all non-detect for PCBs. See Attachment K.

Florasynth may be required to perform additional soil sampling and analysis for PCBs in AOC #12, depending upon the information provided by Florasynth in response to the above comments.

Florasynth Response:

Upon further review of the information presented above, we believe the Department will concur that no additional sampling and analysis is required.

9. AOC #16 Groundwater

Summary:

RI Activities: A series of four PPNDP were installed in soil borings to monitor the depth to water encountered in the subsurface and to facilitate the collection of water samples. PPNDP were installed in borings GP-25, 32, 34 and 35. These soil-boring locations were selected to obtain representative water samples from the shallow subsurface in the vicinity of the former 20,000-gallon fuel oil UST.

RI Laboratory Analytical Data: The only exceedance to the NJDEP Groundwater Quality Standards (NJDEP GWQS) were benzene, detected at a concentration of 3 ppb at the GP-25 PPNDP location north of the former 20,000-gallon UST, and bis(2-ethylhexyl)phthalate detected at 39 ppb in the GP-32 sample and 870 ppb in the GP-34 sample. No other contaminants of concern exceeding the applicable NJDEP GWQS were detected in the water samples analyzed.

Contaminant Distribution: The extent of contamination in the water samples collected at this Site appears to be limited to the immediate vicinity of the former 20,000-gallon fuel oil UST. The apparent source of contamination was the former UST system. With the removal of this system, the apparent source of contamination has been removed and the concentrations can be expected to attenuate over time.

Florasynth's Proposal:

Florasynth reports that shallow subsurface conditions have been investigated at the project Site. Trapped water was encountered in isolated areas in fill soils surrounding buried subsurface structures. No groundwater aquifers were encountered in the underlying varved silt and clay stratum. This stratum acts as an aquiclude preventing the vertical migration of any contaminants to underlying aquifer units. Therefore, the AOCs at the Site are not hydraulically connected to the underlying aquifer unit and are not expected to impact groundwater.

Contamination detected in the water samples collected appears to be related to the release of petroleum product from the former fuel oil UST system. This contamination source has been removed. No further action regarding the trapped water is proposed.

The two existing wells at the Site will be properly abandoned in accordance with NJDEP well sealing requirements.

NJDEP Response:

See the Ground Water Conditions Section below.

10. AOC #17 Pot Wash Area

Summary:

Florasynth reports that during construction of a building addition, an additional Area of Concern (AOC) was identified during removal of a former loading dock area. Four pipes leading from the pot wash area inside the building to the building exterior were uncovered during excavation. There was no previous data on this AOC. On July 10, 1997, a suspected release of hazardous substances from the facility was reported to the NJDEP Spill Hotline, incident number 97-7-10-1844-23 was assigned and the ISRA Case Manager notified.

Potentially contaminated soil was observed at two locations within the work area. Potentially contaminated soils were field screened, excavated and stockpiled on Site. Post-excavation samples were collected and submitted to a laboratory for analysis. The source of contamination was subsequently believed to be discharge from the pot washing room inside the plant. Subsequent to excavation of potentially impacted soils, an additional release from the pot wash area was observed. Pot washing operations were immediately halted and measures implemented by the facility to cease the discharge. Storm water which had subsequently entered the excavation was pumped from the excavation area immediately adjacent to the discharge. Because of the proximity to the building foundation, it was determined that additional soils could not be excavated without compromising the foundation. However, additional soil samples were collected for analysis to document the condition of soils left in place potentially affected by the additional discharge. Contaminated soils were stockpiled and classified for off-site disposal.

Appendix D

AOC #17 REMEDIAL ACTION DOCUMENTATION

I. Introduction

F5
TPHC 47,900 mg/kg > 10,000 mg/kg maximum for total organic contaminants

F3
TPHC 1,980 mg/kg

NJDEP Response:

Florasynth shall explain why soil samples were only analyzed for TPHC if the objective was to confirm the absence of contamination in the soil which was to be removed.

Florasynth shall explain what activity occurred at sample point F5, what was the surface material at F5 and what was the integrity of the surface.

Florasynth shall correct Figure 1 (1) to show landmarks in the existing building, (2) to include which direction is north, and (3) to show the correct scale.

Florasynth shall provide the discrete six-inch interval below ground surface at which the soil samples listed in Table 1 were collected.

Florasynth shall provide the Reduced Deliverables QA/QC information omitted from the Analytical Laboratory Data in Attachment I.

Florasynth Response:

Construction personnel performing work, not related to the ISRA case, in the area believed the contamination to be petroleum-based because of the closure by removal of an underground storage tank in the vicinity (AOC #9). Samples were also analyzed for alcohol because of the proximity of AOC #6. The area near F5 was a former loading dock. The surface is currently paved.

Subsequent to discovery of what appeared to be petroleum contamination at this location, K&S Environmental was contacted by the excavation contractor to perform additional investigation. They believed the contamination to be petroleum in nature based on appearance. The TPHC analysis was used by K&S as a screening to remove contaminated soils. The contamination was flavor and/or fragrance oils, similar in appearance to petroleum products. It was later discovered (after a period of approximately two weeks elapsed) that the contamination originated from the discharge in the Potwash Area.

A Revised Figure 1, showing sample depths and TPHC results is contained in Attachment M.

Reduced Deliverable QA/QC information is included in Attachment M (bound separately).

II. Field Activities

A. Area around Soil Boring F3

NJDEP Response:

Florasynth shall identify the tests used for free product contamination on the soils removed by excavation and Florasynth shall provide the results of the testing.

Florasynth shall provide the depth below ground surface of the interval from which the samples were collected.

Florasynth shall describe the specific equipment used to collect soil samples for VO analysis.

Florasynth shall identify the specific method used to analyze soil samples for VOCs.

Florasynth shall explain the reasoning behind the decision to have the soil samples analyzed for VO+10. [This is the analytical requirement if the sampling objective is Fuel Oil No. 2, Diesel Fuel.]

Florasynth shall explain why the post-excavation soil samples were analyzed for TCLP Metals + Copper, Nickel and Zinc, and Base Neutral Compounds.

Florasynth Response:

According to K&S, they utilized the "Soil/Water Agitation" and "Field Sorption" tests along with a PID (RAE Model PGM-75). Approximately 200 cubic yards of soil was removed from the excavation around F3 based on their field tests.

Sample collection depths are included on revised Figures 1 through 4 in Attachment M.

Florasynth did not have a representative present to collect or observe collection of these samples, so the collection device is unknown.

Soil samples were analyzed by EPA Method 8240.

The original sampling objective was believed to be fuel oil.

Post excavation samples (PE-1 through PE-10) were analyzed for TPHC. The sample with the highest TPHC result was also analyzed for VOCs. All samples were also analyzed for Base Neutral organics since the contamination source was not known. We believe samples were also analyzed for TCLP metals plus copper, nickel and zinc for waste disposal classification purposes in the event that additional excavation was required. No other information is available from K&S.

B. Area around Soil Boring F5

NJDEP Response:

Florasynth shall identify the pipeline discussed in the third paragraph and provide a diagram of its location.

Florasynth shall discuss what efforts, if any, were made to collect and remove free product, as well as to have it analyzed.

Florasynth shall provide the depth below ground surface of the six-inch interval from which the samples were collected.

Florasynth Response:

Two storm sewers were located within the proposed construction area. The approximate locations are shown on revised Figure 1 in Attachment M. As part of the construction in this area, both pipelines were removed.

Again, K&S believed the material to be petroleum-based and did not collect samples of the free product.

Soil samples were collected approximately five feet bgs from the 0-6 inch interval.

C. Area Adjacent to the Existing Building

NJDEP Response:

Florasynth shall provide the depth below ground surface of the six-inch interval from which the samples were collected.

Florasynth Response:

The requested information is included on the revised figures in Attachment M.

12. Results of Soil Analysis

A. Results of Soil Samples in Area F3

NJDEP Response:

Florasynth shall provide the results of all analyses, copies of all laboratory data sheets and the required laboratory data deliverables pursuant to N.J.A.C. 7:26E-2.1 (Quality Assurance Requirements), as required by N.J.A.C. 7:26E-3.13(c)1.

Florasynth shall provide a table summarizing all sampling results, including sample location, media, sample depth, field and laboratory identification numbers, analytical results, and comparison to applicable remediation standards organized by area of concern, as required by N.J.A.C. 7:26E-3.13(c)3.

B. Results of Soil Samples on Area F5

NJDEP Response:

Florasynth shall provide the results of all analyses, copies of all laboratory data sheets and the required laboratory data deliverables pursuant to N.J.A.C. 7:26E-2.1 (Quality Assurance Requirements), as required by N.J.A.C. 7:26E-3.13(c)1.

Florasynth shall provide a table summarizing all sampling results, including sample location, media, sample depth, field and laboratory identification numbers, analytical results, and comparison to applicable remediation standards organized by area of concern, as required by N.J.A.C. 7:26E-3.13(c)3.

Florasynth shall compare all soil sampling results to the Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

C. Results of Soil Samples in Area Adjacent to the Existing Building

NJDEP Response:

Florasynth shall provide the results of all analyses, copies of all laboratory data sheets and the required laboratory data deliverables pursuant to N.J.A.C. 7:26E-2.1 (Quality Assurance Requirements), as required by N.J.A.C. 7:26E-3.13(c)1.

Florasynth shall provide a table summarizing all sampling results, including sample location, media, sample depth, field and laboratory identification numbers, analytical results, and comparison to applicable remediation standards organized by area of concern, as required by N.J.A.C. 7:26E-3.13(c)3.

Florasynth shall compare all soil sampling results to the Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

Florasynth Response:

The laboratory data deliverables are included in Attachment M. A comparison of sample results to the appropriate cleanup criteria is included in the summary in Attachment M.

13. Conclusions and Recommendations (Proposal) from the RI/RAR/RAW Report

Florasynth reports that as post-excavation soil samples had levels only slightly exceeding the NJDEP's July 11, 1996 Soil Cleanup Criteria, K & S Environmental, Inc. recommends that no further cleanup activities be required.

NJDEP Response:
Florasynth's proposal is unacceptable because the reports documenting the activities performed are unclear. Florasynth should proofread and edit the reports and then re-submit them to the Department for review and comment.

Florasynth Response:

In addition to the information provided above, a summary of the referenced report is included in Attachment M.

14. MEMORANDUM, August 5, 1997 in the RI/RAR/RAW Report:

NJDEP Response:

Florasynth shall provide color photograph prints.

15. MEMORANDUM, August 17, 1997 in the RI/RAR/RAW Report:

NJDEP Response:

Florasynth shall provide color photograph prints.

Florasynth Response:

Florasynth has provided color prints of the photographs, see Attachment N.

16. Florasynth's Proposal:

Impacted subsurface materials in the potwash area have been excavated and disposed. The contamination source has been removed. A limited area of impacted soil at levels above NJDEP Soil Cleanup Criteria remains in place beneath the existing building which acts as an engineering control. A deed notice is proposed for this area as shown on Figure 9 in the RI/RAR/RAW Report.

NJDEP Response:

Florasynth's proposal is unacceptable because the reports documenting the activities performed contain illegible photographs. Florasynth should provide legible color photographs to the Department for review and comment.

Florasynth Response:

See photographs contained in Attachment N.

Florasynth shall provide a diagram identifying the two locations at which potentially contaminated soils were observed within the work area.

Florasynth Response:

The two locations are shown on revised Figure 7 in Attachment M.

Florasynth shall identify the instrument used for field screening and they shall produce a log of the results obtained.

Florasynth Response:

Field screening was performed by K&S to guide stockpiling of excavated soil as contaminated or potentially contaminated. All soil excavated during construction in this area was disposed off-site. All material was classified as non-hazardous.

Florasynth shall provide a diagram identifying the locations and the dimensions of the excavations.

Florasynth Response:

Approximate areas and depths are shown on the revised Figures in Attachment M.

Florasynth shall provide a diagram identifying where the soils were stockpiled.

Florasynth Response:

All stockpile locations were on paved areas throughout the site. Soils were placed on plastic. Characterization, removal, and disposal were expedited to minimize storage of soils on site.

Florasynth shall identify the specific location of the additional release from the pot wash area.

Florasynth Response:

The location of the additional release is shown on revised Figure 7 in Attachment M.

There are no sample locations on Figure 7 in the RI/RAR/RAW Report. Florasynth shall submit a revised Figure 7 in the RI/RAR/RAW Report.

Florasynth Response:

A revised Figure 7, showing the post excavation sampling locations is contained in Attachment M.

Florasynth shall clarify whether the samples of Storm water collected on August 12th and submitted for PP+40 analysis were collected from the excavation or from the storage tank.

Florasynth Response:

Two samples were collected: the sample "Frac Tank-81297-1" was collected from the storage tank and the sample "Excavation-81297" was collected from the excavation.

Ground Water Conditions are discussed in the Ground Water Conditions section below.

17. AOC #18 Motor Fuel USTs

Summary:

Florasynth reports that during construction activities conducted at the Site during the winter of 1997-1998, a UST fill port was observed in the subsurface near the southeast corner of the building. This fill port was further investigated and found to be connected to a formerly unknown UST system. The UST was sounded and found to be a 5.5 foot diameter tank. The UST system was subsequently registered and permits and approvals to close this system were obtained. There was no previous data on these found UST systems. A sample of the liquids within the found UST (UST-1) was collected and submitted for analyses. The analytical results, as presented in Table 16 of the RI/RAR/RAW Report, suggest that the UST system formerly contained compounds associated with leaded gasoline.

In early June of 1998, UST closure operations of the found UST were initiated. During excavation activities, three additional UST systems were found. The found UST systems included the following:

UST 1: 3000-gallon UST
UST 2: 2000-gallon UST
UST 3: 1500-gallon UST
UST 4: 3000-gallon UST

A Site location sketch showing the configuration of the found UST systems is presented in Figure 8 of the RI/RAR/RAW Report.

UST systems 1, 2, and 3 were found to be manifolded, the fourth UST system was independent and not connected to the other systems. No vent or other product piping was observed in the area of the UST systems.

RA (Closure of Motor Fuel USTs): Closure approval was granted by the NJDEP in correspondence dated May 21, 1998. Corrosion holes were observed in each of the found UST systems. No product piping beyond the limits of the UST systems was found. Each of the tanks were observed to be filled with water. Groundwater was not observed in the excavation. Following removal of each system, additional excavation was conducted to remove any visually impacted soil materials. These soil materials were stockpiled on the project Site, sampled for waste classification

purposes and disposed of in accordance with the regulations. Liquids found in the UST systems were also disposed of in accordance with the regulations.

Following UST closures, post-excavation soil samples were collected from the UST excavation areas. The samples were collected from the centerline of the former USTs and submitted for VO+10 and lead analyses. Post-excavation soil sample analytical data are presented in Table 17 of the RI/RAR/RAW Report. Florasynth claims that no compounds were detected exceeding NJDEP Soil Cleanup Criteria. Soils from the UST excavation area were sampled for waste classification purposes. Waste classification results are presented in Table 18 of the RI/RAR/RAW Report.

Upon completion of the UST closure operations, the excavation areas were backfilled with "certified clean" 1-1/2 inch clean coarse, crushed stone to finished subgrade elevations. This material was used for structural stability purposes due to the proximity of railroad tracks. The area of concern was then paved with bituminous pavement.

Soil excavated from the AOC during UST closure was stockpiled on-site.

Florasynth's Proposal:

Florasynth reports that the found motor fuel UST systems have been successfully closed by removal. No further action is required for this area of concern as no soil samples contained contaminants of concerns at levels exceeding NJDEP Soil Cleanup Criteria.

NJDEP Response:

Florasynth's proposal is unacceptable.

If the USTs contained leaded gasoline (motor fuel), Florasynth shall elucidate what happened to the associated above ground fuel pumps and underground piping.

Florasynth Response:

Other than what was observed in the field, Florasynth has no information regarding the fuel pumps or additional underground piping.

Florasynth shall review aerial photographs of this AOC to determine its history.

Florasynth Response:

The requested aerial photograph reviewed was performed as part of the Preliminary Assessment by McLaren-Hart in 1995. This area was not identified as an AOC during the PA. Neither the current nor former property owners have any information regarding these tanks. No other source exists which would provide information on the history of the UST system. Further, the tanks were excavated, removed and post-excavation sampling and analysis performed. Based on the work performed, this AOC requires No Further Action.

Florasynth shall identify the depth below ground surface of the bottom of each UST [N.J.A.C. 7:26E-3.9(a)3.].

Florasynth shall provide the three dimensions of the area excavated and a scaled diagram which includes the sampling locations and the depths.

Florasynth Response:

The revised Figure 8 in Attachment O contains the required information.

Pursuant to N.J.A.C. 7:26E-3.9(a)3.i.(2), the minimum number of sampling locations for the four USTs based upon the total tank capacity and the approximate tank length is listed below:

Tank	Total Tank Capacity (Gallons)	Approx. Tank Length (Feet)	Minimum Number of Sampling Locations
UST-1	3,000	18	6
UST-2	2,000	12	4
UST-3	1,500	9	4
UST-4	3,000	18	6

The number and location (centerline of the former USTs) of post-excavation soil samples collected by Florasynth is acceptable. Florasynth could have collected sidewall samples at the bottom of the excavation.

Florasynth shall explain how each of the tanks were observed to be filled with water, given that corrosion holes were observed in each of the found UST systems.

Florasynth Response:

The presence of water within USTs is not uncommon. Trapped stormwater may enter a tank through the corrosion holes as the level of water rises within the tank backfill. If the corrosion holes are above the water level, water will remain trapped within the tank as the level of water falls.

In general, the presence of water within a UST indicates the tank is not of sound integrity.

B. QA\QC Review

NJDEP Response:

NJDEP reviewed Appendix B, the Laboratory Analytical Results reports prepared by ENVIROTECH RESEARCH, INC., New Jersey Laboratory Certification 12543.

Job No. W649-Florasynth, Inc.: GP50S1, 14888, VO elevated QL. Non-Conformance Summary, Base/Neutral and/or Acid Extractable Organics, Sample 14907 (GP56S2), Extract spiked with 2 times level of internal standard. Sample reextracted (outside hold time). Reextracted sample reported:

Job No. Y806-Florasynth, Inc.

Job No. Y859-Florasynth, Inc.

Job No. Y959-Florasynth, Inc.

Job No. Z090-Florasynth, Inc.: X37-5, X38-8, X39-4, X40-4, PAH, Holding Time exceeded by 3 days. The lab had to await the outcome of the TPHC analysis before they could analyze for PAHs.

Job No. Z274-Florasynth, Inc.

Job No. Z508-Florasynth, Inc.

Job No. W869-Florasynth, Inc.

Job No. W870-Florasynth, Inc.

Job No. D298-Florasynth, Inc.

Job No. D928-Florasynth, Inc., GC Fingerprint, Pb

Job No. E465-Florasynth, Inc.

The data packages were complete. The results are acceptable as presented.

C. Ground Water Conditions

1. Summary:

Based on the soils excavations and Florasynth's report there are several areas in which petroleum impacted soils are to remain in place due to engineering limitations on removal. These areas include AOC #8 (remaining section of fuel oil fill line), AOC #11 the exterior storage area and AOC # 17 the pot wash area. Florasynth proposes Deed Notices for each of these AOC's.

The soils impacted with # 4 fuel oil and other petroleum related compounds extend to about six feet below the surface in each of the three AOC's proposed for Deed Notice.

Florasynth Response:

Florasynth would like to clarify the nature and depth of remaining contamination in each AOC as follows:

AOC #8: Remaining/inaccessible contamination underneath the maintenance/mechanical room is limited to an area of approximately 375 square feet and extends to a depth no greater than five feet below the floor, within the fill layer. No exposure pathway exists.

AOC #11: The extent of the area with levels of SVOCs greater than the RDCSCC is limited to approximately 2,000 square feet to a depth from 0 to 2.5 feet bgs. Only one SVOC, benzo(a)pyrene, is present at levels greater than the Non-residential Direct Contact Soil Cleanup Criteria. This area is currently paved and no exposure pathway exists.

AOC #17: The extent of the area impacted by SVOCs in this AOC is believed to be limited, based on the preferential pathway of migration along the former storm sewer pipe, observed during construction. This area is currently underneath a building and no exposure pathway exists.

Florasynth's Proposal:

Florasynth concludes that since water in the subsurface is a localized perched condition due to surface runoff and flooding, no additional ground water investigation is needed. The minor amounts of VOC's and BN's detected in the former excavation of the 20,000 UST are limited in extent. Also since the UST system was removed, the source of contamination is gone and levels "can be expected to attenuate over time".

NJDEP Response:

Florasynth's proposal to deed notice several areas of concern with contamination to be left in place can be found in the Soil Conditions section above.

2. Summary:

During the removal of the 20,000-gallon UST some "trapped" water was encountered in the excavation. Florasynth used four temporary Passively Placed Narrow Diameter Points (PPNDP) to collect ground water samples as an alternative to installing monitoring wells within the building. The samples collected from these points were analyzed for VO's+10 and BN's+15 and the results indicated detectable levels of VOC TIC's (1,161ppb) and BN TIC's (5,720ppb).

NJDEP Response:

Florasynth must determine whether there is any current (or potential for) contamination of ground water beneath the AOC's. This is necessary since Florasynth proposes to leave contaminated soils in place and has not conducted a ground water investigation to date. In addition, it appears that a potential for ground water impacts does exist. An example of this is shown by the PPNDP water grab samples taken in the former excavation of the 20,000 #4 fuel oil tank. Levels of BN TIC's at 1-5ppm were detected in two of the four samples taken.

Florasynth Response:

To clarify, the water samples were collected during the remedial investigation delineation sampling, not in the tank excavation during tank removal. Based on the nature of BN TICS in trapped water collected from AOC #8, it appears that petroleum hydrocarbon contamination is attenuating. Further, the appearance of contamination in the soils prior to excavation has been described as "degrading naturally" (McLaren Hart Site Investigation Report, November 1995), which also supports attenuation. Accessible source material has been removed.

The intermittent, trapped water identified in AOC #8 can not be considered true groundwater. Of the 36 borings within AOC #8, perched water was identified in 20 locations. Further, based on boring logs in this area where the perched water was identified, a dry clay layer beneath the fill layer was also observed. This layer will retard contaminant migration.

A log of the dispersion well installed to a depth of 281 feet below ground surface indicates a clay layer extending from 5 feet bgs to 100 feet bgs.

The boring logs can be found in Attachment P.

3. Summary:

It appears based on the soil sampling and tank excavations that the local geology of the area consists of fill and marsh deposits to a depth of four to six feet below the surface. From about six to approximately 24 feet varved silts and clay sediments were encountered as the major sediment type at the site. The report states that the varved silts and clays are assumed to extend to 100 feet. Based on this information Florasynth states that no "true" aquifer underlies the site or region and that any water encountered during site investigations was due to "trapped" water in porous fill materials.

NJDEP Response:

Florasynth must verify that the varved silt/clays have a low hydraulic conductivity and are present to depths that would prevent vertical migration of contaminants to water bearing zones.

1. Florasynth is to further characterize the soil type(s) at the site (nearer each AOC's). The investigation shall include, at a minimum, three borings (continuous split spoon) at each AOC with remaining contamination. Each boring shall be advanced to at least 30-40 below the surface.

These continuous split spoon borings are to be used to gather the following data, permeability (Shelby tube method) of each soil type encountered, depth to any saturated zone (water table), soil types (silts, clay, sand etc.).

2. In addition to the Shelby tube samples, Florasynth shall perform sieve analyses on the boring samples taken. These are needed to show whether the subsurface soils have low hydraulic conductivities that would retard the downward movement of contaminants proposed to remain in place.

Based on the information gathered from these borings a determination as to the need for any additional ground water investigation will be made by the NJDEP.

The AOC's that require boring sediment characterization include #8, #11, and # 17.

Florasynth Response:

Florasynth does not believe that additional investigation is warranted or practical. Sufficient information has been gathered to date. The presence of a clay layer beneath the fill is documented in the information gathered to date (see logs in Attachment P). Contaminant migration has been limited in vertical extent.

Contamination remaining in AOC #8 is limited in areal extent and depth. The remaining hydrocarbons will continue to degrade. There is currently no exposure pathway.

Trapped water was not encountered in AOC #11. The area is currently paved and contamination is limited to the first 2.5 feet. No potential for groundwater impact exists. There is currently no exposure pathway.

Based on the current facility configuration, AOC # 17 is beneath a building. The building acts as an engineering control, preventing migration. No exposure pathway exists. No potential for groundwater impact exists.

Drilling within or nearby the contaminated areas may actually promote the migration of contaminants into groundwater. The observation of perched, intermittent water suggests that there is indeed a barrier to migration of contaminants to groundwater.

Attachment Q contains a Site Plan of existing conditions at the facility, showing the locations of AOC #8, AOC #11 and AOC #17.

D. General Requirements

1. Pursuant to the referenced Remediation Agreement, Florasynth, Inc. shall perform all actions as outlined in the RIW, and conditioned in this letter. If any change in methods outlined in the RIW is necessary, Florasynth, Inc. shall inform BEECRA in writing prior to implementation.

2. Florasynth, Inc. shall notify the Case Manager at least 14 calendar days prior to implementation of all field activities included in the RIW. If Florasynth, Inc. fails to initiate sampling in accordance with the approved schedule, any request for an extension may be denied.

3. Florasynth, Inc. shall collect and analyze all samples in accordance with the sampling protocol outlined in the most current edition of the NJDEP's "Field Sampling Procedures Manual" and Technical Requirements for Site Remediation (TRSR), N.J.A.C. 7:26E.

4. **Florasynth, Inc. shall submit a revised schedule within 30 days of receipt of this letter. Technically and administratively incomplete submissions, not prepared pursuant to N.J.A.C. 7:26E, may be rejected.**

Florasynth Response:

Florasynth was granted an additional 30 day extension for submittal of a revised schedule. Based on the Department's review and approval of the proposed Deed Notices for the site, Florasynth will prepare draft Deed Notices for review within 90 days of the approval. Florasynth will also properly abandon the two existing wells on the site.

5. Any remedial action performed, or proposed in a Remedial Action Workplan, shall be in accordance with N.J.S.A. 58:10B-12(g).

6. Any proposal to leave contaminant concentrations on-site exceeding the NJDEP's current residential cleanup criteria, shall be in accordance with the Technical Requirements for Site Remediation N.J.A.C. 7:26E-5.1 and 5.2.

Florasynth, Inc. shall also submit proof of acceptance of the non-residential cleanup criteria by the current property owner.

7. Pursuant to N.J.S.A. 58:10B-3, a remediation funding source is to be established in an amount equal or greater than the cost estimate of the implementation of the remediation and shall be in effect for a term not less than the actual time necessary to perform the remediation at the site. N.J.S.A. 58:10B-3 allows for a change of the amount in the remediation funding source as the cost estimate changes. Please provide the current estimated cost of the remaining remediation required at the site.

Any increases in the estimated cost estimate will require an increase in the amount in the financial assurance [or remediation funding source] to an amount at least equal to the new estimate. Any requests to decrease the amount in the remediation funding source will be reviewed and approved by the NJDEP upon a finding that the current remediation cost estimate will be sufficient to fund all necessary remediation.

8. Pursuant to the TRSR, N.J.A.C. 7:26E-3.13(c) 3v, all analytical data shall be presented both as a hard copy and an electronic deliverable using the database format outlined in detail in the current HAZSITE application or appropriate spreadsheet format specified in the NJDEP's electronic data interchange manual.

For further information related to electronic data submissions, please refer to the Site Remediation Program's (SRP's) home page at the following internet address: **http://www.state.nj.us/dep/srp** The **Regulations and Guidance** page of this web site has a section dedicated to HazSite which includes downloadable files, an explanation of how to use these files to comply with the NJDEP's requirements, the SRP's Electronic Data Interchange (EDI) manual, and **Guidance for the Submission and Use of Data In GIS Compatible Formats Pursuant to "Technical Requirements for Site Remediation".**

Florasynth Response:

Please note that RIW approval was granted prior to the effective date of the TRSR. Therefore, the data collected during this investigation will not be submitted in HazSite or GIS-compatible format.

We believe the additional information provided in this response will allow the Department to determine no further actions, beyond filing of the proper deed notices, are required. After the Department's evaluation of this letter and Attachments, we request a meeting be held at the site to clarify any further questions the Department may have. We will contact you within the next three weeks to arrange a convenient meeting date and time.

Sincerely,
BAKER ENVIRONMENTAL, INC.

Laura A. Conradi, P.E.
Regional Manager

Attachments

cc: Paul Nutkowitz, BEERA w/o attachments
Derek Carano, BGWPA w/o attachments
Mark Guarino, Bergen County Health Officer w/o attachments
Lois Arbegast, Supervisor, BEECRA w/o attachments

List of Attachments

Attachment A	*AOC #6 No Further Investigation Approval Letter*
Attachment B	*Revised Analytical Summary Tables*
Attachment C	*AOC #14 No Further Action Letter*
Attachment D	*AOC #8 Cross Sectional Diagrams*
Attachment E	*Sketch of Pre-Excavation Sample Locations*
Attachment F	*AOC #8 RI and Post-Ex Sampling Locations*
Attachment G	*Horizontal Delineation of GP-15, AOC #8 Deed Notice Area*
Attachment H	*Revised Figure 4A*
Attachment I	*Spill Containment Tank Systems*
Attachment J	*Spill Containment Tank Systems Closure Report*
Attachment K	*Sample GP47S2 Delineation of PCBs*
Attachment L	*Revised Table 2*
Attachment M	*AOC #17 Remedial Action Summary (Bound Separately)*
Attachment N	*AOC #17 Color Photographs*
Attachment O	*Revised Figure 8*
Attachment P	*AOC #16 Documentation - Boring Logs*
Attachment Q	*Current Site Conditions*

Baker

Baker Environmental, Inc.

ATTACHMENT A

AOC #6 No Further Investigation Approval Letter

RECEIVED
MAR 23 1998
BAKER
PRINCETON, NJ

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

David J. Freeman
Battle Fowler
75 East 55th Street
New York, NY 10022

Re: Remediation Agreement in the Matter of Florasynth, Inc.
Teterboro, Bergen County
ISRA Case # 95108
UST # 0228675

Dear Mr. Freeman:

Pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (Department) and duly delegated to the Section Chief of the Bureau of Field Operations pursuant to the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21 et seq. and implementing regulations, N.J.A.C. 7:14B et seq., the referenced No Further Investigation proposal for the below referenced area of concern (AOC) is hereby **approved**. This closure consisted of the removal of an alcohol underground storage tank, and all associated piping. The results of the soil analysis indicated contaminant levels were below the cleanup criteria developed for this site. Pursuant to N.J.A.C. 7:26E, a ground water investigation was not required.

This approval is based on the information provided to the Department concerning the satisfactory completion of the Site Assessment Report received on November 5, 1997 in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

This approval shall be limited only to the above referenced AOC, the condition of such areas as of the date of this letter, and shall not be construed to address any other areas of the site. This No Further Investigation Approval Letter shall not restrict or prohibit the Department or any other agency from taking regulatory action under any other statute, rule or regulation. By issuing this No Further Investigation Approval Letter, the Department reserves its right to pursue any penalties allowable under the law for violations pursuant to the Underground Storage of Hazardous Substances Act, N.J.S.A. 58:10A-21 et seq. and implementing regulations, N.J.A.C. 7:14B et seq., or any other statute, rule or regulation.

Sincerely,

John Graham, Supervisor
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

c: Paul Nutkowitz, BEERA
Derek Carano, BGWPA
Mark Guarino, Bergen County Department of Health Services
Peter Sparaco, Florasynth, Inc.
Susan I. Baer, Esq., Bayer AG - Haarmann Reimer Corporation
Jack Friedman, Florasynth, Inc.
Laura Conradi, Baker Environmental, Inc.

Baker

Baker Environmental, Inc.

ATTACHMENT B

Revised Analytical Summary Tables

Table 5 (revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) Former 20,000 Gallon Fuel Oil UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X1BE-20	X2SNE-6	X3BNE-21	X4BC-20	X5BC-21	X6BC-20
Lab Sample Number	NJDEP Residential	28754	28755	28756	28757	28758	28759
Sampling Date	Direct contact/Impact to	10/28/1997	10/28/1997	10/28/1997	10/28/1997	10/28/1997	10/28/1997
Depth	Groundwater Cleanup	20-20.5	6-6.5	21-21.5	20-20.5	21-21.5	20-20.5
Matrix	Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	10,000	25 U	25 U	25 U	25 U	25 U	25 U

Sample ID		X7BC-20	X8BNW-20	X9BSW-20	X10SS-14	X11-BSE-17
Lab Sample Number	NJDEP Residential	28760	28761	28762	28763	29094
Sampling Date	Direct contact/Impact to	10/28/1997	10/29/1997	10/29/1997	10/29/1997	10/29/1997
Depth	Groundwater Cleanup	20-20.5	20-20.5	20-20.5	14-14.5	17-17.5
Matrix	Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	10,000	25 U	25 U	79.6	25 U	25 U

Qualifiers
J -The concetration given is an approximate value.
B -The analyte was found in the laboratory blank as well as the sample.
U -Not detected.
NR -Not analyzed.
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) South of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X12-6		X13-6		X14-5		X15-5		X37-5		X38-8		X39-4		X40-4		X41-8		X42-8	
Lab Sample Number	NJDEP Residential	29095		29096		29097		29098		30331		30332		30333		30334		30335		30336	
Sampling Date	Direct contact/Impact to	10/29/1997		10/29/1997		10/29/1997		10/30/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
Depth	Groundwater Cleanup	6-6.5		6-6.5		5-5.5		5-5.5		5-5.5		8-8.5		4-4.5		4-4.5		8-8.5		8-8.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		5		1		1		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	2320		245		25	U	25	U	1530		384		1300		1190		25	U	25	U

Sample ID		X12-6		X13-6		X14-5		X15-5		X37-5		X38-8		X39-4		X40-4		X41-8		X42-8	
Lab Sample Number	NJDEP Residential	29095		29096		29097		29098		30331		30332		30333		30334		30335		30336	
Sampling Date	Direct contact/Impact to	10/29/1997		10/29/1997		10/29/1997		10/30/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
Depth	Groundwater Cleanup	6-6.5		6-6.5		5-5.5		5-5.5		5-5.5		8-8.5		4-4.5		4-4.5		8-8.5		8-8.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		2		1						1		1		1		1					
Units	ug/kg	ug/kg		ug/kg						ug/kg		ug/kg		ug/kg		ug/kg					
SEMIVOLATILE COMPOUNDS (GC/MS)																					
Naphthalene	100,000	42	U	21	U		NR		NR	20	U	21	U	20	U	17	J		NR		NR
Acenaphthylene	NV	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Acenaphthene	100,000	150		21	U		NR		NR	40		21	U	20	U	47			NR		NR
Fluorene	100,000	380		21	U		NR		NR	68		21	U	20	U	20	U		NR		NR
Phenanthrene	NV	290		11	J		NR		NR	70		21	U	78		89			NR		NR
Anthracene	100,000	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Fluoranthene	100,000	42	U	21	U		NR		NR	20	U	21	U	29		20	U		NR		NR
Pyrene	100,000	300		38			NR		NR	79		36		120		83			NR		NR
Benzo(a)anthracene	900	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Chrysene	9000	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Benzo(b)fluoranthene	900	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Benzo(k)fluoranthene	900	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Benzo(a)pyrene	660	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Indeno(1,2,3-cd)pyrer	900	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Dibenz(a,h)anthracen	660	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Benzo(g,h,i)perylene	NV	42	U	21	U		NR		NR	20	U	21	U	20	U	20	U		NR		NR
Tot. Conc. BNAs	NA	1120								257		36		227		219					

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X16-4		X17-4		X18-6		X19-5		X20-5		X21-10		X22-5		X23-10	
Lab Sample Number	NJDEP Residential	29099		29100		29638		29639		29640		29641		29642		29643	
Sampling Date	Direct contact/Impact to	10/30/1997		10/31/1997		10/31/1997		10/31/1997		10/31/1997		10/31/1997		10/31/1997		11/3/1997	
Depth	Groundwater Cleanup	4-4.5		4-4.5		6-6.5		5-5.5		5-5.5		10-10.5		5-5.5		1-1.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1				1		1		1		1		1		1	
Units	mg/kg	mg/kg				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	25	U	25	U	25	U	25	U	30.9		25	U	25	U	25	U

Sample ID		X16-4	X17-4	X18-6	X19-5	X20-5	X21-10	X22-5	X23-10
Lab Sample Number	NJDEP Residential	29099	29100	29638	29639	29640	29641	29642	29643
Sampling Date	Direct contact/Impact to	10/30/1997	10/31/1997	10/31/1997	10/31/1997	10/31/1997	10/31/1997	10/31/1997	11/3/1997
Depth	Groundwater Cleanup	4-4.5	4-4.5	6-6.5	5-5.5	5-5.5	10-1.5	5-5.5	10-10.5
Matrix	Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor									
Units	ug/kg								

SEMIVOLATILE COMPOUNDS (GC/MS)

Naphthalene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Acenaphthylene	NV		NR		NR		NR		NR		NR		NR		NR		NR
Acenaphthene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Fluorene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Phenanthrene	NV		NR		NR		NR		NR		NR		NR		NR		NR
Anthracene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Fluoranthene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Pyrene	100,000		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(a)anthracene	900		NR		NR		NR		NR		NR		NR		NR		NR
Chrysene	9000		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(b)fluoranthene	900		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(k)fluoranthene	900		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(a)pyrene	660		NR		NR		NR		NR		NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene	900		NR		NR		NR		NR		NR		NR		NR		NR
Dibenz(a,h)anthracene	660		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(g,h,i)perylene	NV		NR		NR		NR		NR		NR		NR		NR		NR
Tot. Conc. BNAs	NA																

Qualifiers
NR -Not analyzed.
NV-No Value
NA-Not applicable
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X24-5		X25-5		X26-5		X27-2		X27B-5		X28-2		X28B-5		X29-2	
Lab Sample Number	NJDEP Residential	29644		29645		29646		29647		29648		29649		29650		29651	
Sampling Date	Direct contact/Impact to	11/3/1997		11/3/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997	
Depth	Groundwater Cleanup	5-5.5		5-5.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	25	U	35.4		40.8		880		28.3		298		41.6		39.7	

Sample ID		X24-5		X25-5		X26-5		X27-2		X27B-5		X28-2		X28B-5		X29-2	
Lab Sample Number	NJDEP Residential	29644		29645		29646		29647		29648		29649		29650		29651	
Sampling Date	Direct contact/Impact to	11/3/1997		11/3/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997	
Depth	Groundwater Cleanup	5-5.5		5-5.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor								1				1					
Units	ug/kg							ug/kg				ug/kg					
SEMIVOLATILE COMPOUNDS (GC/MS)																	
Naphthalene	100,000		NR		NR		NR	18	U		NR	20	U		NR		NR
Acenaphthylene	NV		NR		NR		NR	18	U		NR	39			NR		NR
Acenaphthene	100,000		NR		NR		NR	16	J		NR	20	U		NR		NR
Fluorene	100,000		NR		NR		NR	20			NR	20	U		NR		NR
Phenanthrene	NV		NR		NR		NR	150			NR	89			NR		NR
Anthracene	100,000		NR		NR		NR	47			NR	50			NR		NR
Fluoranthene	100,000		NR		NR		NR	320			NR	230			NR		NR
Pyrene	100,000		NR		NR		NR	290			NR	320			NR		NR
Benzo(a)anthracene	900		NR		NR		NR	140			NR	170			NR		NR
Chrysene	9000		NR		NR		NR	170			NR	200			NR		NR
Benzo(b)fluoranthene	900		NR		NR		NR	240			NR	180			NR		NR
Benzo(k)fluoranthene	900		NR		NR		NR	18	U		NR	20	U		NR		NR
Benzo(a)pyrene	660		NR		NR		NR	120			NR	120			NR		NR
Indeno(1,2,3-cd)pyrene	900		NR		NR		NR	18	U		NR	20	U		NR		NR
Dibenz(a,h)anthracene	660		NR		NR		NR	18	U		NR	20	U		NR		NR
Benzo(g,h,i)perylene	NV		NR		NR		NR	9.3	J		NR	20	U		NR		NR
Tot. Conc. BNAs	NA							1497				1398					

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X29B-5		X30-2.5		X30B-5		X31_2FG		X32_0FG		X33_4FG		X34_2	
Lab Sample Number	NJDEP Residential	29652		29653		29654		29655		29656		29657		29658	
Sampling Date	Direct contact/Impact to	11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997	
Depth	Groundwater Cleanup	5-5.5		2.5-3		5-5.5		2.5-3		0-.5		4-4.5		2-2.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	25	U	216		135		25	U	25	U	25	U	25	U

Sample ID		X29B-5		X30-2.5		X30B-5		X31_2FG		X32_0FG		X33_4FG		X34_2	
Lab Sample Number	NJDEP Residential	29652		29653		29654		29655		29656		29657		29658	
Sampling Date	Direct contact/Impact to	11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997		11/4/1997	
Depth	Groundwater Cleanup	5-5.5		2.5-3		5-5.5		2-2.5		0-.5		4-4.5		2-2.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor				1		1									
Units	ug/kg			ug/kg		ug/kg									
SEMIVOLATILE COMPOUNDS (GC/MS)															
Naphthalene	100,000		NR	61		60			NR		NR		NR		NR
Acenaphthylene	NV		NR	21	U	18	J		NR		NR		NR		NR
Acenaphthene	100,000		NR	37		120			NR		NR		NR		NR
Fluorene	100,000		NR	21	U	110			NR		NR		NR		NR
Phenanthrene	NV		NR	120		820			NR		NR		NR		NR
Anthracene	100,000		NR	26		150			NR		NR		NR		NR
Fluoranthene	100,000		NR	170		1100			NR		NR		NR		NR
Pyrene	100,000		NR	140		940			NR		NR		NR		NR
Benzo(a)anthracene	900		NR	49		450			NR		NR		NR		NR
Chrysene	9000		NR	49		520			NR		NR		NR		NR
Benzo(b)fluoranthene	900		NR	52		650			NR		NR		NR		NR
Benzo(k)fluoranthene	900		NR	17	J	20	U		NR		NR		NR		NR
Benzo(a)pyrene	660		NR	28		310			NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene	900		NR	21	U	20	U		NR		NR		NR		NR
Dibenz(a,h)anthracene	660		NR	21	U	20	U		NR		NR		NR		NR
Benzo(g,h,i)perylene	NV		NR	21	U	20	U		NR		NR		NR		NR
Tot. Conc. BNAs	NA			732		5230									

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) North of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X34B_5		X35-6		X36-6	
Lab Sample Number	NJDEP Residential	29659		29660		29661	
Sampling Date	Direct contact/Impact to	11/4/1997		11/4/1997		11/4/1997	
Depth	Groundwater Cleanup	5-5.5		6-6.5		6-6.5	
Matrix	Criteria*	SOLID		SOLID		SOLID	
Dilution Factor		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	25	U	25	U	25	U

Qualifiers
J -The concetration given is an approximate value.
B -The analyte was found in the laboratory blank as well as the sample.
U -Not detected.
NR -Not analyzed.
* -Most stringent criteria used.

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) North of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number		30337		30338		30339		30340		30341		30342		30343	
Sampling Date		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
		2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		1			
Units	ug/kg	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg			
VOLATILE COMPOUNDS (GC/MS)															
MethyleneChloride	1000	110	B	39	B	180	B	42	B	44	B	62	B		NR
Trichlorofluoromethane	NV	1.2	U	1.2	U	1	J	5.8	J	2.6		6.6			NR
Toluene	500,000	0.8	J	1.2	U	1.2	U	6	U	1.2	U	5.8	U		NR
Tot. Confident Conc. VOAs	NA	1.5		0		0		0		2.6		6.6			
Tot. Est. Conc. VOA TICs	1,000,000**	408		0		306		81		6.2		4500			
SEMIVOLATILE COMPOUNDS (GC/MS)															
Naphthalene	100,000	1300		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthylene	NV	810		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthene	100,000	1400		20	U	15	J	20	U	20	U	21	U		NR
Fluorene	100,000	1000		20	U	21	U	20	U	20	U	21	U		NR
Phenanthrene	NV	1700		20	U	48		20	U	20	U	21	U		NR
Anthracene	100,000	830		20	U	21	U	20	U	20	U	21	U		NR
Fluoranthene	100,000	5400		20	U	45		14	J	20	U	21	U		NR
Pyrene	100,000	3300		20	U	26		11	J	20	U	21	U		NR
Benzo(a)anthracene	900	1800		20	U	24		20		20	U	21	U		NR
Chrysene	9000	2500		20	U	12	J	9.8	J	20	U	21	U		NR
Benzo(b)fluoranthene	900	3000		20	U	21	U	20	U	20	U	21	U		NR
Benzo(k)fluoranthene	900	1100		20	U	21	U	20	U	20	U	21	U		NR
Benzo(a)pyrene	660	1600		20	U	10	J	13	J	20	U	21	U		NR
Indeno(1,2,3-cd)pyrene	900	1200		20	U	21	U	20	U	20	U	21	U		NR
Dibenz(a,h)anthracene	660	290		20	U	21	U	20	U	20	U	21	U		NR
Benzo(g,h,i)perylene	NV	1000		20	U	21	U	20	U	20	U	21	U		NR
Total Confident Conc. BNAs	NA	28230		0		143		20		0		0			
Tot. Est. Conc. BNA TICs	10,000,000***	18180		0		15510		2160		890		9056			
PESTICIDES/PCBs															
Aroclor-1016	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1221	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1232	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1242	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1248	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1254	490	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1260	490	86	U	82	U	85	U	81	U	81	U	85	U		NR

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
**Total Volatile Organics Maximum
***Total Organics Maximum

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) North of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number		30337		30338		30339		30340		30341		30342		30343	
Sampling Date		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
		2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		NA		NA		NA		NA		NA		NA			
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg			
METALS															
Antimony	14	1.4	U	1.3	U	1.2	U	1.3	U	1.3	U	1.3	U		NR
Arsenic	20	64.1		4.5		12.8		3.5		4.6		22.4			NR
Beryllium	1	0.65		0.87		0.96		0.92		0.93		0.78			NR
Cadmium	39	0.73	B	0.098	U	0.092	U	0.096	U	0.096	U	0.1	U		NR
Chromium	20**	9.5		21.6		22.4		23.5		24.3		19.7			NR
Copper	600	43.7		20.9		29.3		20.4		18.8		22.6			NR
Lead	400	73.1		14		15.1		14.5		14		13.7			NR
Mercury	14	0.14		0.02	B	0.021	U	0.02	U	0.02	B	0.021	U		NR
Nickel	250	15.3		32.8		35.6		28.8		30.2		30.5			NR
Selenium	63	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U	1.2	U		NR
Silver	110	0.31	U	0.29	U	0.28	U	0.29	U	0.29	U	0.3	U		NR
Thallium	2	0.97	U	0.93	U	0.88	U	0.92	U	0.92	U	0.97	U		NR
Zinc	1,500	234		80.7		79.6		63		64.8		75			NR

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number		30337		30338		30339		30340		30341		30342		30343	
Sampling Date		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
		2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	97.3		25	U	25	U	25	U	25	U	25	U	25	U

Qualifiers
J -The concetration given is an approximate value.
B -The analyte was found in the laboratory blank as well as the sample.
U -Not detected.
NR -Not analyzed.
* -Most stringent criteria used
** -for hexavalent chromium

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X50A_.5		X50B_2		X51A_.5		X51B_2		X52A_.5		X52B_2		X53A_.5		X53B_2	
Lab Sample Number	NJDEP Residential	31714		31715		31716		31717		31718		31719		31720		31721	
Sampling Date	Direct contact/Impact	11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997	
Depth	to Groundwater	5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		50		1		50		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	127		46.6		25	U	57.8		57400		155		44000		836	
Sample ID		X50A_.5		X50B_2		X51A_.5		X51B_2		X52A_.5		X52B_2		X53A_.5		X53B_2	
Lab Sample Number	NJDEP Residential	31714		31715		31716		31717		31718		31719		31720		31721	
Sampling Date	Direct contact/Impact	11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997		11/14/1997	
Depth	to Groundwater	5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1								20		1		20		1	
Units	ug/kg	ug/kg								ug/kg		ug/kg		ug/kg		ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																	
Naphthalene	100,000	21	U		NR		NR		NR	1700	J	21	U	1900		20	J
Acenaphthylene	NV	21	U		NR		NR		NR	1300	J	21	U	730	J	10	J
Acenaphthene	100,000	21	U		NR		NR		NR	6800		21	U	3400		58	
Fluorene	100,000	14	J		NR		NR		NR	8400		12	J	5300		86	
Phenanthrene	NV	34			NR		NR		NR	6400		16	J	5900		93	
Anthracene	100,000	21	U		NR		NR		NR	1900	U	21	U	940	U	39	
Fluoranthene	100,000	30			NR		NR		NR	2800		21	U	810	J	35	
Pyrene	100,000	36			NR		NR		NR	23000		16	J	2100		92	
Benzo(a)anthracene	900	26			NR		NR		NR	2800		21	U	1600		13	J
Chrysene	9000	18	J		NR		NR		NR	7500		21	U	940	U	59	
Benzo(b)fluoranthene	900	21	U		NR		NR		NR	1700	J	21	U	940	U	20	U
Benzo(k)fluoranthene	900	21	U		NR		NR		NR	1900	U	21	U	940	U	20	U
Benzo(a)pyrene	660	14	J		NR		NR		NR	1500	J	21	U	680	J	20	U
Indeno(1,2,3-cd)pyren	900	14	J		NR		NR		NR	1900	U	21	U	940	U	20	U
Dibenz(a,h)anthracene	660	21	U		NR		NR		NR	1900	U	21	U	940	U	20	U
Benzo(g,h,i)perylene	NV	15	J		NR		NR		NR	1900	U	21	U	940	U	20	U
Tot. Conf. Conc. BNAs	10,000,000**	126								57700		0		20200		462	

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
** -Total organics maximum

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X54-10		X55-3		X56-8		X57-8		X58-8		X59-2.25		X60-5		X61-3	
Lab Sample Number	NJDEP Residential	33406		33407		33408		33409		33410		33411		33412		33413	
Sampling Date	Direct contact/Impact	11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997	
Depth	to Groundwater	10-10.5		3-3.5		8-8.5		8-8.5		8-8.5		2.25-2.75		5-5.5		3-3.5	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		12.5		1		5	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	25	U	1360		46.1		25	U	49.1		18300		1030		2160	
Sample ID		X54-10		X55-3		X56-8		X57-8		X58-8		X59-2.25		X60-5		X61-3	
Lab Sample Number	NJDEP Residential	33406		33407		33408		33409		33410		33411		33412		33413	
Sampling Date	Direct contact/Impact	11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997	
Depth	to Groundwater	10-10.5		3-3.5		8-8.5		8-8.5		8-8.5		2.25-2.75		5-5.5		3-3.5	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor				5								20		5		10	
Units	ug/kg			ug/kg								ug/kg		ug/kg		ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																	
Naphthalene	100,000		NR	99	U		NR		NR		NR	3400		120		2600	
Acenaphthylene	NV		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Acenaphthene	100,000		NR	260			NR		NR		NR	2900		290		580	
Fluorene	100,000		NR	320			NR		NR		NR	4100		390		710	
Phenanthrene	NV		NR	720			NR		NR		NR	6500		840		840	
Anthracene	100,000		NR	54	J		NR		NR		NR	400	U	74	J	210	U
Fluoranthene	100,000		NR	92	J		NR		NR		NR	650		90	J	140	J
Pyrene	100,000		NR	180			NR		NR		NR	1600		170		300	
Benzo(a)anthracene	900		NR	52	J		NR		NR		NR	950		120		210	U
Chrysene	9000		NR	86	J		NR		NR		NR	400	U	100	U	210	U
Benzo(b)fluoranthene	900		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Benzo(k)fluoranthene	900		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Benzo(a)pyrene	660		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Indeno(1,2,3-cd)pyrene	900		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Dibenz(a,h)anthracene	660		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Benzo(g,h,I)perylene	NV		NR	99	U		NR		NR		NR	400	U	100	U	210	U
Tot. Conf. Conc. BNAs	10,000,000**			1480								20100		1930		5030	

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
** - Total organics maximum

Table 5 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID		X62-4		X63-4		X64-4		X65-3		X66-3.5	
Lab Sample Number	NJDEP Residential	33414		33415		33416		33417		33418	
Sampling Date	Direct contact/Impact	11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997	
Depth	to Groundwater	4-4.5		4-4.5		4-4.5		3-3.5		3.5-4	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	10,000	139		25	U	70.3		40		25	U
Sample ID		X62-4		X63-4		X64-4		X65-3		X66-3.5	
Lab Sample Number	NJDEP Residential	33414		33415		33416		33417		33418	
Sampling Date	Direct contact/Impact	11/20/1997		11/20/1997		11/20/1997		11/20/1997		11/20/1997	
Depth	to Groundwater	4-4.5		4-4.5		4-4.5		3-3.5		3.5-4	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1									
Units	ug/kg	ug/kg									
SEMIVOLATILE COMPOUNDS (GC/MS)											
Naphthalene	100,000	20	U		NR		NR		NR		NR
Acenaphthylene	NV	20	U		NR		NR		NR		NR
Acenaphthene	100,000	20	U		NR		NR		NR		NR
Fluorene	100,000	20	U		NR		NR		NR		NR
Phenanthrene	NV	20	U		NR		NR		NR		NR
Anthracene	100,000	20	U		NR		NR		NR		NR
Fluoranthene	100,000	20	U		NR		NR		NR		NR
Pyrene	100,000	29			NR		NR		NR		NR
Benzo(a)anthracene	900	20	U		NR		NR		NR		NR
Chrysene	9000	20	U		NR		NR		NR		NR
Benzo(b)fluoranthene	900	20	U		NR		NR		NR		NR
Benzo(k)fluoranthene	900	20	U		NR		NR		NR		NR
Benzo(a)pyrene	660	20	U		NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene	900	20	U		NR		NR		NR		NR
Dibenz(a,h)anthracene	660	20	U		NR		NR		NR		NR
Benzo(g,h,i)perylene	NV	20	U		NR		NR		NR		NR
Tot. Conf. Conc. BNAs	10,000,000**	29									

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
** - Total organics maximum

Table 6 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	GP55AS1		GP55BS1		GP55BS2		GP55BS3		GP55BS4		GP56S1		GP56S2		GP56S3		GP56S4	
Lab Sample Number		14901		14902		14903		14904		14905		14906		14907		14908		14909	
Sampling Date		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth		1.5-2		1.5-2		2.0-3.0		7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1				1				1				1			
Units	ug/kg	ug/kg		ug/kg				ug/kg				ug/kg				ug/kg			
VOLATILE COMPOUNDS (GC/MS)																			
MethyleneChloride	1000	1.4	B	2.4	B		NR	8.9	B		NR	2	B		NR	4.8	B		NR
Trichlorofluoromethane	NV	5.4		2.1			NR	12			NR	35			NR	3.8			NR
1,2-Dichloropropane	10,000	1.3	U	1.2	U		NR	1.3	U		NR	1.2	U		NR	1.3	U		NR
Tot. Confident Conc. VOA	NA	5.4		2.1				12				35				3.8			
Tot. Est. Conc. VOA TICs (s)	NA	6.4		0				19				40				370			
SEMIVOLATILE COMPOUNDS (GC/MS)																			
Acenaphthylene	NV		NR		NR	11	J		NR	20	U		NR	56			NR	20	U
Acenaphthene	100,000		NR		NR	50			NR	20	U		NR	29			NR	20	U
Fluorene	100,000		NR		NR	66			NR	20	U		NR	20	U		NR	20	U
Phenanthrene	NV		NR		NR	760			NR	20	U		NR	270			NR	20	U
Anthracene	100,000		NR		NR	230			NR	20	U		NR	78			NR	20	U
Fluoranthene	100,000		NR		NR	1000			NR	20	U		NR	470			NR	20	U
Pyrene	100,000		NR		NR	750			NR	20	U		NR	490			NR	20	U
Benzo(a)anthracene	900		NR		NR	360			NR	20	U		NR	290			NR	20	U
Chrysene	9000		NR		NR	330			NR	20	U		NR	290			NR	20	U
Benzo(b)fluoranthene	49,000		NR		NR	370			NR	20	U		NR	310			NR	20	U
Benzo(k)fluoranthene	900		NR		NR	180			NR	20	U		NR	110			NR	20	U
Benzo(a)pyrene	900		NR		NR	320			NR	20	U		NR	260			NR	20	U
Indeno(1,2,3-cd)pyrene	660		NR		NR	200			NR	20	U		NR	200			NR	20	U
Dibenz(a,h)anthracene	900		NR		NR	20	U		NR	20	U		NR	48			NR	20	U
Benzo(g,h,i)perylene	NV		NR		NR	170			NR	20	U		NR	180			NR	20	U
Total Confident Conc. BNAs (s)	NA					4786				0				3081				0	
Total Estimated Conc. BNA TICs (s)	NA					4510				0				5990				0	

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

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Table 6 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	GP55AS1	GP55BS1	GP55BS2	GP55BS3	GP55BS4	GP56S1	GP56S2	GP56S3	GP56S4
Lab Sample Number		14901	14902	14903	14904	14905	14906	14907	14908	14909
Sampling Date		7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Depth		1.5-2	1.5-2	2.0-3.0	7-7.5	7.5-8	1.5-2	2.0-3	7-7.5	7.5-8
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor				NA		NA		NA		NA
Units	mg/kg			mg/kg		mg/kg		mg/kg		mg/kg
PESTICIDES/PCBs										
Aroclor-1016	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1221	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1232	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1242	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1248	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1254	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
Aroclor-1260	0.49		NR	NR	80 U		NR	82 U		NR	80 U		NR	82 U
METALS										
Aluminum	NV		NR	NR	9380		NR	12200		NR	7520		NR	13500	
Antimony	14		NR	NR	0.69 U		NR	0.71 U		NR	0.69 U		NR	0.71 U
Arsenic	20		NR	NR	7.3		NR	8		NR	9.6		NR	3.8	
Barium	700		NR	NR	85.1		NR	79.5		NR	89.1		NR	96.3	
Beryllium	1		NR	NR	0.6		NR	0.75		NR	0.48		NR	0.75	
Cadmium	39		NR	NR	0.26 B		NR	0.3 B		NR	0.33 B		NR	0.21 B
Calcium	NV		NR	NR	1820		NR	1970		NR	24300		NR	1820	
Chromium	20		NR	NR	16		NR	20.8		NR	14.4		NR	21	
Cobalt	NV		NR	NR	9.3		NR	14.3		NR	5.9		NR	17.7	
Copper	600		NR	NR	19.5		NR	27.6		NR	19.9		NR	27.5	
Iron	NV		NR	NR	25100		NR	34200		NR	15100		NR	31000	
Lead	400		NR	NR	19.7		NR	13.4		NR	55.4		NR	11.9	
Magnesium	NV		NR	NR	3430		NR	5260		NR	7670		NR	5710	
Manganese	NV		NR	NR	274		NR	424		NR	397		NR	340	
Mercury	14		NR	NR	0.06 U		NR	0.062 U		NR	0.1		NR	0.061 U
Nickel	250		NR	NR	20.6		NR	31		NR	13.3		NR	36.6	
Potassium	NV		NR	NR	498		NR	955		NR	278		NR	1210	
Selenium	63		NR	NR	0.88 U		NR	0.91 U		NR	0.89 U		NR	0.91 U
Silver	110		NR	NR	0.19 U		NR	0.2 U		NR	0.28 B		NR	0.2 U
Sodium	NV		NR	NR	92.1 B		NR	216 B		NR	148 B		NR	224 B
Thallium	2		NR	NR	1 U		NR	1.1 U		NR	1 U		NR	1.1 U
Vanadium	370		NR	NR	21.8		NR	26		NR	27.6		NR	23
Zinc	1500		NR	NR	52.6		NR	72.3		NR	51.3		NR	83.9
WET CHEMISTRY										
TPHC (418.1)	10,000		NR	NR	25 U		NR	25 U		NR	25 U		NR	25 U

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

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Table 6 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID		GP57S1_7-7.5		GP57S1_7.5-8		GP58S1		GP58S2		GP58S3		GP58S4	
Lab Sample Number	NJDEP Residential Direct	14910		14911		14912		14913		14914		14915	
Sampling Date	contact/Impact to	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater Cleanup	7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1				1				1			
Units	ug/kg	ug/kg				ug/kg				ug/kg			
VOLATILE COMPOUNDS (GC/MS)													
MethyleneChloride	1000	4.6	B		NR	4.5	B		NR	4.3	B		NR
Trichlorofluoromethane	NV	3.3			NR	98			NR	4.6			NR
1,2-Dichloropropane	10,000	1.1	U		NR	1.3	U		NR	1.1	J		NR
Tot. Confident Conc. VOA	NA	3.3				98				4.6			
Tot. Est. Conc. VOA TICs (s)	NA	18				95				375			
SEMIVOLATILE COMPOUNDS (GC/MS)													
Acenaphthylene	NV		NR	20	U		NR	20	U		NR	21	U
Acenaphthene	100,000		NR	20	U		NR	20	U		NR	21	U
Fluorene	100,000		NR	20	U		NR	20	U		NR	21	U
Phenanthrene	NV		NR	20	U		NR	20	U		NR	21	U
Anthracene	100,000		NR	20	U		NR	20	U		NR	21	U
Fluoranthene	100,000		NR	20	U		NR	19	J		NR	21	U
Pyrene	100,000		NR	20	U		NR	17	J		NR	21	U
Benzo(a)anthracene	900		NR	20	U		NR	16	J		NR	21	U
Chrysene	9000		NR	20	U		NR	11	J		NR	21	U
Benzo(b)fluoranthene	49,000		NR	20	U		NR	20	U		NR	21	U
Benzo(k)fluoranthene	900		NR	20	U		NR	20	U		NR	21	U
Benzo(a)pyrene	900		NR	20	U		NR	20	U		NR	21	U
Indeno(1,2,3-cd)pyrene	660		NR	20	U		NR	20	U		NR	21	U
Dibenz(a,h)anthracene	900		NR	20	U		NR	20	U		NR	21	U
Benzo(g,h,i)perylene	NV		NR	20	U		NR	20	U		NR	21	U
Total Confident Conc. BNAs (s)	NA			0				0				0	
Total Estimated Conc. BNA TICs (s)	NA			0				5560				7530	

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 7 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #10) Loading Dock Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	Residential Direct	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	contact/Impact to	7/31/1997		7/31/1997		Notes:		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater	5.5-6		6-6.5		1,000,000 ppb		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	Cleanup Criteria*	SOLID		SOLID		10,000,000 ppb		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		1		1		1		1		1		1		1		1	
Units	ug/kg	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
VOLATILE COMPOUNDS (GC/MS)																					
MethyleneChloride	1000	1.5	B	6.8	B		NR	29	B		NR	10	B		NR		NR	3.2	B		NR
Trichlorofluoromethane	NV	2.8		1.3	U		NR	74			NR	37			NR		NR	3.2			NR
Total Conf. Conc. VOAs (s)	NA	2.8		0				74				37						3.2			
Total Est. Conc. VOA TICs (s)	NA	0		0				100				35						0			
SEMIVOLATILE COMPOUNDS (GC/MS)																					
Acenaphthylene	NV		NR		NR	21	U		NR	12	J		NR	8.9	J	21	U		NR	23	U
Acenaphthene	100,000		NR		NR	21	U		NR	36			NR	12	J	21	U		NR	23	U
Fluorene	100,000		NR		NR	21	U		NR	41			NR	15	J	21	U		NR	35	
Phenanthrene	NV		NR		NR	33			NR	230			NR	88		21	U		NR	220	
Anthracene	100,000		NR		NR	21	U		NR	57			NR	24		21	U		NR	70	
Pyrene	100,000		NR		NR	48			NR	260			NR	130		21	U		NR	200	
Benzo(a)anthracene	900		NR		NR	28			NR	100			NR	59		21	U		NR	110	
Chrysene	9,000		NR		NR	26			NR	130			NR	74		21	U		NR	92	
bis(2-Ethylhexyl)phthalate	49,000		NR		NR	86	J		NR	650			NR	410	U	420	U		NR	460	U
Benzo(b)fluoranthene	900		NR		NR	34			NR	130			NR	98		21	U		NR	75	
Benzo(k)fluoranthene	900		NR		NR	14	J		NR	51			NR	40		21	U		NR	35	
Benzo(a)pyrene	660		NR		NR	24			NR	100			NR	85		21	U		NR	76	
Indeno(1,2,3-cd)pyrene	900		NR		NR	16	J		NR	59			NR	48		21	U		NR	23	U
Dibenz(a,h)anthracene	660		NR		NR	21	U		NR	16	J		NR	14	J	21	U		NR	23	U
Benzo(g,h,i)perylene	NV		NR		NR	15	J		NR	56			NR	47		21	U		NR	23	U
Total Confident Conc. BNAs	NA					256				2190				823		0				1153	
Total Estimated Conc. BNA TIC	NA					0				1200				0		0				0	
PESTICIDES/PCBs																					
Aroclor-1016	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1221	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1232	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1242	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1248	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1254	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1260	490		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organic Maximum

Table 7 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #10) Loading Dock Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	Residential Direct	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	contact/Impact to	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater	5.5-6		6-6.5		6.5-7		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor						NA				NA				NA		NA				NA	
Units	mg/kg					mg/kg				mg/kg				mg/kg		mg/kg				mg/kg	
METALS																					
Aluminum	NV		NR		NR	13300			NR	12000			NR	6870		13900			NR	14600	
Antimony	14		NR		NR	0.74	U		NR	0.74	U		NR	0.72	U	0.74	U		NR	0.8	U
Arsenic	20		NR		NR	8.2			NR	10.1			NR	5.8		6.1			NR	7.7	
Barium	700		NR		NR	109			NR	79.7			NR	44.1		93.2			NR	91.2	
Beryllium	1		NR		NR	0.74			NR	0.66			NR	0.36	B	0.76			NR	0.7	
Cadmium	39		NR		NR	0.24	B		NR	0.27	B		NR	0.15	B	0.22	B		NR	0.12	B
Calcium	NV		NR		NR	3420			NR	6640			NR	19500		3640			NR	2620	
Chromium	20		NR		NR	21.7			NR	18.8			NR	11		22.3			NR	22.7	
Cobalt	NV		NR		NR	22.1			NR	13.4			NR	6.9		14.6			NR	19.6	
Copper	600		NR		NR	28.7			NR	27.2			NR	13.6		29.7			NR	29.7	
Iron	NV		NR		NR	31200			NR	33100			NR	15900		31700			NR	25000	
Lead	400		NR		NR	14			NR	12.1			NR	8.3		14.6			NR	14.5	
Magnesium	NV		NR		NR	6900			NR	6090			NR	4240		6690			NR	6840	
Manganese	NV		NR		NR	960			NR	783			NR	587		711			NR	382	
Mercury	14		NR		NR	0.064	U		NR	0.064	U		NR	0.062	U	0.063	U		NR	0.069	U
Nickel	250		NR		NR	35.9			NR	29			NR	14.8		33.6			NR	36.5	
Potassium	NV		NR		NR	1230			NR	1680			NR	741		1600			NR	1310	
Selenium	63		NR		NR	0.95	U		NR	0.95	U		NR	0.91	U	0.94	U		NR	1	U
Silver	110		NR		NR	0.26	B		NR	0.2	U		NR	0.2	U	0.29	B		NR	0.25	B
Sodium	NV		NR		NR	146	B		NR	283			NR	197	B	272			NR	211	B
Thallium	2		NR		NR	1.1	U		NR	1.1	U		NR	1.1	U	1.1	U		NR	1.2	U
Vanadium	370		NR		NR	24.6			NR	22.4			NR	12.9		25			NR	24.4	
Zinc	1500					82.3				69.7				43		81.5				88.3	
WET CHEMISTRY																					
TPHC (418.1)	10,000		NR		NR	25	U		NR	569			NR	25	U	25	U		NR	25	U

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organic Maximum

Table 8 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, New Jersey

Sample ID		GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2		GP50S1		GP50S2		GP50S3	
Lab Sample Number	NJDEP Residential	14881		14882		14883		14884		14885		14886		14887		14888		14889		14890	
Sampling Date	Direct contact/Impact to	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater Cleanup	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6		0.5-1		4.5-5		5.0-6	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		50				50		50				1				5000		1			
Units	ug/kg	ug/kg				ug/kg		ug/kg				ug/kg				ug/kg		ug/kg			
VOLATILE COMPOUNDS (GC/MS)																					
MethyleneChloride	1000	4800			NR	2300		12000			NR	110	B		NR	17000	U	1000			NR
Trichlorofluoromethane	NV	9800			NR	17000		400			NR	150			NR	17000	U	62			NR
Toluene	500,000	93	J		NR	150	U	150	U		NR	8.7			NR	17000	U	4.5	J		NR
Total Confident Conc. VOAs (s)	NA	14600				19300		12400				159				0		62			
Total Estimated Conc. VOA TICs (s)	NA	8380				1300		5300				2752				1720000		1218			

Sample ID		GP47S1	GP47S2	GP48S1	GP48S2	GP48S3	GP49S1	GP49S2	GP50S1	GP50S2	GP50S3
Lab Sample Number	NJDEP Residential	14881	14882	14883	14884	14885	14886	14887	14888	14889	14890
Sampling Date	Direct contact/Impact to	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Depth	Groundwater Cleanup	4.5-5	5.0-6	0.5-1	4.5-5	5.0-6	4.5-5	5.6-6	0.5-1	4.5-5	5.0-6
Matrix	Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor			2			1		5			1
Units	ug/kg		ug/kg			ug/kg		ug/kg			ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)											
Acenaphthylene	NV	NR	22 J	NR	NR	20 U	NR	72 J	NR	NR	20 U
Acenaphthene	100,000	NR	42 U	NR	NR	20 U	NR	46 J	NR	NR	20 U
Fluorene	100,000	NR	42 U	NR	NR	20 U	NR	45 J	NR	NR	8.6 J
Phenanthrene	NV	NR	95	NR	NR	20 U	NR	280	NR	NR	36
Anthracene	100,000	NR	19 J	NR	NR	20 U	NR	90 J	NR	NR	20 U
Fluoranthene	100,000	NR	350	NR	NR	20 U	NR	810	NR	NR	34
Pyrene	100,000	NR	280	NR	NR	20 U	NR	580	NR	NR	24
Benzo(a)anthracene	900	NR	170	NR	NR	20 U	NR	320	NR	NR	16 J
Chrysene	9000	NR	250	NR	NR	20 U	NR	460	NR	NR	9.3 J
bis(2-Ethylhexyl)phthalate	49,000	NR	260 J	NR	NR	410 U	NR	880 J	NR	NR	410 U
Benzo(b)fluoranthene	900	NR	290	NR	NR	20 U	NR	460	NR	NR	20 U
Benzo(k)fluoranthene	900	NR	130	NR	NR	20 U	NR	220	NR	NR	20 U
Benzo(a)pyrene	660	NR	170	NR	NR	20 U	NR	300	NR	NR	20 U
Indeno(1,2,3-cd)pyrene	900	NR	160	NR	NR	20 U	NR	230	NR	NR	20 U
Dibenz(a,h)anthracene	660	NR	39 J	NR	NR	20 U	NR	50 J	NR	NR	20 U
Benzo(g,h,i)perylene	NV	NR	150	NR	NR	20 U	NR	200	NR	NR	20 U
Total Confident Conc. BNAs (s)	NA		2045			0		3860			94
Total Estimated Conc. BNA TICs (s)	NA		74700			18440		481000			3940

Qualifiers
J -The concetration given is an approximate value.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 8 (Revised)
Remedial Action Soil Sample Analytical Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, New Jersey

Sample ID		GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2		GP50S1		GP50S2		GP50S3	
Lab Sample Number	NJDEP Residential	14881		14882		14883		14884		14885		14886		14887		14888		14889		14890	
Sampling Date	Direct contact/Impact to	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater Cleanup	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6		0.5-1		4.5-5		5.0-6	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor				1						1				1						1	
Units	ug/kg			ug/kg						ug/kg				ug/kg						ug/kg	
PESTICIDES/PCBs																					
Aroclor-1016	490		NR	84	U		NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1221	490		NR	84	U		NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1232	490		NR	84	U		NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1242	490		NR	84	U		NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1248	490		NR	670			NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1254	490		NR	570			NR		NR	83	U		NR	92	U		NR		NR	83	U
Aroclor-1260	490		NR	210			NR		NR	83	U		NR	92	U		NR		NR	83	U
Sample ID		GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2		GP50S1		GP50S2		GP50S3	
Lab Sample Number	NJDEP Residential	14881		14882		14883		14884		14885		14886		14887		14888		14889		14890	
Sampling Date	Direct contact/Impact to	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	Groundwater Cleanup	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6		0.5-1		4.5-5		5.0-6	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor				1						1				1						1	
Units	mg/kg			mg/kg						mg/kg				mg/kg						mg/kg	
METALS																					
Aluminum	NV		NR	12900			NR		NR	13000			NR	10400			NR		NR	13800	
Antimony	14		NR	0.73	U		NR		NR	0.72	U		NR	0.8	U		NR		NR	0.72	U
Arsenic	20		NR	13.2			NR		NR	5.3			NR	24.6			NR		NR	5.7	
Barium	700		NR	68.7			NR		NR	91.5			NR	114			NR		NR	87.7	
Beryllium	1		NR	0.74			NR		NR	0.73			NR	0.68			NR		NR	0.78	
Cadmium	39		NR	0.21	B		NR		NR	0.27	B		NR	0.41	B		NR		NR	0.22	B
Calcium	NV		NR	3060			NR		NR	4230			NR	3490			NR		NR	3590	
Chromium	(hexavalent) 20		NR	20.1			NR		NR	20.7			NR	17.5			NR		NR	21.6	
Cobalt	NV		NR	14.5			NR		NR	14			NR	10.5			NR		NR	14.9	
Copper	600		NR	25.7			NR		NR	28.8			NR	28.6			NR		NR	30.7	
Iron	NV		NR	37300			NR		NR	35100			NR	22500			NR		NR	33500	
Lead	400		NR	14.6			NR		NR	13			NR	98.2			NR		NR	13.5	
Magnesium	NV		NR	6080			NR		NR	6740			NR	3830			NR		NR	6630	
Manganese	NV		NR	572			NR		NR	979			NR	369			NR		NR	965	
Mercury	14		NR	0.063	U		NR		NR	0.062	U		NR	0.069	U		NR		NR	0.062	U
Nickel	250		NR	31.9			NR		NR	31.1			NR	24			NR		NR	33.6	
Potassium	NV		NR	1040			NR		NR	960			NR	980			NR		NR	1080	
Selenium	63		NR	0.98	B		NR		NR	0.91	U		NR	1	U		NR		NR	0.92	U
Silver	110		NR	0.2	U		NR		NR	0.23	B		NR	0.26	B		NR		NR	0.2	U
Sodium	NV		NR	138	B		NR		NR	149	B		NR	162	B		NR		NR	130	B
Thallium	2		NR	1.1	U		NR		NR	1.1	U		NR	1.2	U		NR		NR	1.1	U
Vanadium	370		NR	22.8			NR		NR	22			NR	25.8			NR		NR	25.7	
Zinc	1500		NR	76.4			NR		NR	74.2			NR	70.6			NR		NR	77.3	

Qualifiers
J -The concetration given is an approximate value.
B -The analyte was found in the laboratory blank as well as the sample.
U -Not detected.
NR -Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 10 (Revised)
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID		X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6		
Lab Sample Number	NJDEP Residential	30337		30338		30339		30340		30341		30342		30343		
Sampling Date	Direct contact/Impact	11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		
Depth	to Groundwater	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5		
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		
Dilution Factor		1		1		1		1		1		1		1		
Units	ug/kg	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		
VOLATILE COMPOUNDS (GC/MS)																
MethyleneChloride	1000	110	B	39	B	180	B	42	B	44	B	62	B			NR
Trichlorofluoromethane	NV	1.2	U	1.2	U	1	J	5.8	J	2.6		6.6				NR
Toluene	500,000	0.8	J	1.2	U	1.2	U	6	U	1.2	U	5.8	U			NR
Xylene(Total)	67,000	1.5		1.2	U	1.2	U	6	U	1.2	U	5.8	U			NR
Total Confident Conc. VOAs (s)	NA	1.5		0		0		0		2.6		6.6				
Total Estimated Conc. VOA TICs (s)	NA	408		0		306		81		6.2		4500				
SEMIVOLATILE COMPOUNDS (GC/MS)																
Naphthalene	100,000	1300		20	U	21	U	20	U	20	U	21	U			NR
Acenaphthylene	NV	810		20	U	21	U	20	U	20	U	21	U			NR
Acenaphthene	100,000	1400		20	U	15	J	20	U	20	U	21	U			NR
Fluorene	100,000	1000		20	U	21	U	20	U	20	U	21	U			NR
Phenanthrene	NV	1700		20	U	48		20	U	20	U	21	U			NR
Anthracene	100,000	830		20	U	21	U	20	U	20	U	21	U			NR
Fluoranthene	100,000	5400		20	U	45		14	J	20	U	21	U			NR
Pyrene	100,000	3300		20	U	26		11	J	20	U	21	U			NR
Benzo(a)anthracene	900	1800		20	U	24		20		20	U	21	U			NR
Chrysene	9000	2500		20	U	12	J	9.8	J	20	U	21	U			NR
Benzo(b)fluoranthene	900	3000		20	U	21	U	20	U	20	U	21	U			NR
Benzo(k)fluoranthene	900	1100		20	U	21	U	20	U	20	U	21	U			NR
Benzo(a)pyrene	660	1600		20	U	10	J	13	J	20	U	21	U			NR
Indeno(1,2,3-cd)pyrene	900	1200		20	U	21	U	20	U	20	U	21	U			NR
Dibenz(a,h)anthracene	660	290		20	U	21	U	20	U	20	U	21	U			NR
Benzo(g,h,i)perylene	NV	1000		20	U	21	U	20	U	20	U	21	U			NR
Total Confident Conc. BNAs (s)	NA	28230		0		143		20		0		0				
Total Est. Conc. BNA TICs (s)	NA	18180		0		15510		2160		890		9056				

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.

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Table 10 (Revised)
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID		X43-2	X44-5	X45-6	X46-3	X47-3	X48-6	X49-6
Lab Sample Number	NJDEP Residential	30337	30338	30339	30340	30341	30342	30343
Sampling Date	Direct contact/Impact	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997
Depth	to Groundwater	2-2.5	5-5.5	6-6.5	3-3.5	3-3.5	6-6.5	6-6.5
Matrix	Cleanup Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1	1	1	1	1	1	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
PESTICIDES/PCBs								
Aroclor-1016	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1221	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1232	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1242	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1248	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1254	490	86 U	82 U	85 U	81 U	81 U	85 U	NR
Aroclor-1260	490	86 U	82 U	85 U	81 U	81 U	85 U	NR

Sample ID		X43-2	X44-5	X45-6	X46-3	X47-3	X48-6	X49-6
Lab Sample Number	NJDEP Residential	30337	30338	30339	30340	30341	30342	30343
Sampling Date	Direct contact/Impact	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997	11/7/1997
Depth	to Groundwater	2-2.5	5-5.5	6-6.5	3-3.5	3-3.5	6-6.5	6-6.5
Matrix	Cleanup Criteria*	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1	1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WET CHEMISTRY								
TPHC	10,000	97.3	25 U	25 U	25 U	25 U	25 U	25 U

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 10 (Revised)
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID		X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number	NJDEP Residential	30337		30338		30339		30340		30341		30342		30343	
Sampling Date	Direct contact/Impact	11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997		11/7/1997	
Depth	to Groundwater	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix	Cleanup Criteria*	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor		NA		NA		NA		NA		NA		NA		NA	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
METALS															
Antimony	14	1.4	U	1.3	U	1.2	U	1.3	U	1.3	U	1.3	U		NR
Arsenic	20	64.1		4.5		12.8		3.5		4.6		22.4			NR
Beryllium	1	0.65		0.87		0.96		0.92		0.93		0.78			NR
Cadmium	39	0.73	B	0.098	U	0.092	U	0.096	U	0.096	U	0.1	U		NR
Chromium	(hexavalent) 20	9.5		21.6		22.4		23.5		24.3		19.7			NR
Copper	600	43.7		20.9		29.3		20.4		18.8		22.6			NR
Lead	400	73.1		14		15.1		14.5		14		13.7			NR
Mercury	14	0.14		0.02	B	0.021	U	0.02	U	0.02	B	0.021	U		NR
Nickel	250	15.3		32.8		35.6		28.8		30.2		30.5			NR
Selenium	63	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U	1.2	U		NR
Silver	110	0.31	U	0.29	U	0.28	U	0.29	U	0.29	U	0.3	U		NR
Thallium	2	0.97	U	0.93	U	0.88	U	0.92	U	0.92	U	0.97	U		NR
Zinc	1500	234		80.7		79.6		63		64.8		75			NR

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 11 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #11) Exterior Storage Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	GP44S1	GP44S2	GP44S3	GP45S1	GP45S2	GP45S3	GP46S1	GP46S2	GP46S3
Lab Sample Number		14872	14873	14874	14875	14876	14877	14878	14879	14880
Sampling Date		7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Depth		0.5-1	2.5-3	4-4.5	0.5-1	2.5-3	4-4.5	0.5-1	2.5-3	4-4.5
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		1	1	1	1	1	1	2	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)										
Naphthalene	100,000	100	20 U	20 U	18 U	19 U	19 U	26 J	20 U	20 U
Acenaphthylene	NV	19 J	20 U	20 U	20	19 U	19 U	250	20 U	20 U
Acenaphthene	100,000	240	20 U	20 U	88	11 J	13 J	470	20 U	20 U
Fluorene	100,000	220	20 U	20 U	120	16 J	18 J	670	20 U	20 U
Phenanthrene	NV	2100	20 U	20 U	810	110	140	5900	20 U	20 U
Anthracene	100,000	580	20 U	20 U	200	28	39	1600	20 U	20 U
Fluoranthene	100,000	2900	20 U	15 J	830	130	180	7800	18 J	20 U
Pyrene	100,000	2500	20 U	12 J	660	100	140	6900	15 J	20 U
Benzo(a)anthracene	900	1100	11 J	13 J	290	52	67	3700	16 J	9.5 J
Chrysene	9000	1200	20 U	20 U	320	50	68	4100	8.8 J	20 U
bis(2-Ethylhexyl)phthalate	49,000	150 J	160 J	280 J	120 J	85 J	590	730 U	410 U	720
Benzo(b)fluoranthene	900	1300	20 U	20 U	280	52	67	3900	12 J	20 U
Benzo(k)fluoranthene	900	520	20 U	20 U	110	19	28	1600	20 U	20 U
Benzo(a)pyrene	660	1100	20 U	20 U	230	41	55	3100	8.9 J	20 U
Indeno(1,2,3-cd)pyrene	900	690	20 U	20 U	110	23	29	1900	20 U	20 U
Dibenz(a,h)anthracene	660	140	20 U	20 U	45	19 U	19 U	520	20 U	20 U
Benzo(g,h,i)perylene	NV	690	20 U	20 U	110	21	28	1500	20 U	20 U
Tot. Confident Conc. BNAs	NA	15380	0	0	4223	626	1431	43910	0	720
Tot. Est. Conc. BNA TICs	NA	23580	750	340	690	320	0	31930	177680	14740

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 11 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #11) Exterior Storage Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	NJDEP Residential Direct contact/Impact to Groundwater Cleanup Criteria*	A4S1	A4S2	A6S1	A6S2	A7S1	A7S2	A8S1	A8S2
Lab Sample Number		57421	57422	57425	57426	57427	57428	57429	57430
Sampling Date		4/27/1998	4/27/1998	4/27/1998	4/27/1998	4/27/1998	4/27/1998	4/27/1998	4/27/1998
Depth		3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8
Matrix		SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor		50	50	50	50	50	50	50	50
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VOLATILE COMPOUNDS (GC/MS)									
Ethylbenzene	100,000	89 J	150 U	150 U	160 U	140 U	160 U	130 U	160 U
Xylene(Total)	67,000	160	150 U	150 U	160 U	140 U	160 U	130 U	160 U
Total Confident Conc. VOAs (s)	NA	160	0	0	0	0	0	0	0
Total Estimated Conc. VOA TICs (s)	NA	4700	0	8150	0	8780	1200	1100	780
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	100,000	46 J	430 U	390 U	430 U	2000 U	430 U	390 U	420 U
Phenanthrene	NV	22 J	430 U	15 J	430 U	2000 U	430 U	390 U	420 U
Fluoranthene	100,000	41 J	430 U	390 U	430 U	2000 U	430 U	390 U	9.9 J
Pyrene	100,000	37 J	430 U	390 U	430 U	2000 U	430 U	390 U	9.3 J
Chrysene	9000	24 J	430 U	390 U	430 U	2000 U	430 U	390 U	420 U
bis(2-Ethylhexyl)phthalate	49,000	410 U	430 U	150 J	430 U	2000 U	430 U	390 U	420 U
Di-n-octylphthalate	100,000	410 U	430 U	130 J	430 U	2000 U	430 U	390 U	420 U
Benzo(b)fluoranthene	900	29	21 U	20 U	21 U	100 U	22 U	20 U	21 U
Benzo(a)pyrene	660	18 J	21 U	20 U	21 U	100 U	22 U	20 U	21 U
Indeno(1,2,3-cd)pyrene	900	13 J	21 U	20 U	21 U	100 U	22 U	20 U	21 U
Total Confident Conc. BNAs (s)	NA	29	0	0	0	0	0	0	0
Total Estimated Conc. BNA TICs (s)	NA	25940	0	330	0	833800	11830	0	4590

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 13 (Revised)
Remedial Investigation Analytical Data
(AOC #16) Trapped Water
Florasynth, Inc. Teterboro, N.J.

Sample ID		GP25		GP35		GP32		GP34	
Lab Sample Number		14100		14916		14917		14918	
Sampling Date	NJDEP Ground Water	7/30/1997		8/1/1997		8/1/1997		8/1/1997	
Matrix	Quality Criteria/Practical	WATER		WATER		WATER		WATER	
Dilution Factor	Quantitation Levels*	1		1		1		1	
Units	ug/l	ug/l		ug/l		ug/l		ug/l	
VOLATILE COMPOUNDS (GC/MS)									
Chloroethane	NV	1	U	1.1		1	U	1	U
Chloroform	6	0.2	U	0.2	U	0.2	U		
Benzene	1	3				0.2	U	0.2	U
Toluene	1,000	0.2	U	4.4		0.2	U	0.2	U
Ethylbenzene	700	0.5		0.2	U	0.2	U	0.2	U
Total Conf. Conc. VOAs	NA	3.5		5.8		0		2.5	
Total Est. Conc. VOA TICs (s)	NA	1161		106		5.7		68	
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	NV	9.9		7.6	U	2.5	U	41	U
Acenaphthene	400			8.4	U	2.8	U	44	U
Diethylphthalate	5,000	5		3.8		1.8		19	U
Fluorene	300			5.9	U	1.9	U	31	U
Phenanthrene	NV			3.4		1	U		
Fluoranthene	300	2.5		3.3	U	1.1	U	28	
Pyrene	200	5.3		4.2		0.6	U		
Benzo(a)anthracene	NV	2.9		2.5	U	0.8	U		U
Chrysene	NV	1.2	J	2.6	U	0.9	U	14	U
bis(2-Ethylhexyl)phthalate	30					39		870	
Total Conf. Conc. BNAs	NA	89		28		41		950	
Total Est. Conc. BNA TICs (s)	NA	1504		2209		0		5720	

Sample ID		GP25		GP35		GP32		GP34	
Lab Sample Number		14100		14916		14917		14918	
Sampling Date	NJDEP Ground Water	7/30/1997		8/1/1997		8/1/1997		8/1/1997	
Matrix	Quality Criteria/Practical	WATER		WATER		WATER		WATER	
Dilution Factor	Quantitation Levels*	NA				NA			
Units	mg/l	mg/l				mg/l			
WET CHEMISTRY									
Alkalinity	NV	920			NR	321			NR
Sulfate	250,000				NR	79.9	U		NR
Total Kjeldahl Nitogen	NV	8.6			NR	0.1			NR
TOC	NV	239			NR	11.9			NR
HETEROTROPHIC PLATE COUNT (col/ml units)	NV	7300			NR	160000			NR
TotalPhosphorus	NV	2.5			NR	3.8			NR
Iron	300				NR				NR

Qualifiers:
NN- None Noticeable
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Least stringent criteria used
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 14 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #17) Potwash Area
Florasynth, Inc. Teterboro, N.J.

Sample ID		A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	NJDEP Residential	16175		16176		16177		16178	
Sampling Date	Direct contact/Impact to	8/11/1997		8/11/1997		8/11/1997		8/11/1997	
Depth	Groundwater Cleanup	0-.5		1-1.5		0-.5		1-1.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID	
Dilution Factor		1		1		100		1	
Units	ug/kg	ug/kg		ug/kg		ug/kg		ug/kg	
VOLATILE COMPOUNDS (GC/MS)									
MethyleneChloride	1000	5.2	B	4.1	B	340	B	27	B
Toluene	500,000	1.2	U	2.9		400		46	
Xylene(Total)	67,000	1.2	U	1.2	U	330	U	3.7	J
Total Conf. Conc. VOAs (s)	NA	0		2.9		400		46	
Total Est. Conc. VOA TICs	NA	0		59		129300		5130	
SEMIVOLATILE COMPOUNDS (GC/MS)									
Diethylphthalate	50,000	390	U	400	U	91000		120000	
Phenanthrene	NV	48		33		220	U	410	U
Anthracene	100,000	12	J	12	J	220	U	410	U
Di-n-butylphthalate	100,000	390	U	400	U	4300	U	8200	U
Fluoranthene	100,000	110		83		220	U	410	U
Pyrene	100,000	100		72		220	U	410	U
Benzo(a)anthracene	900	19	U	62		220	U	410	U
Chrysene	9000	54		42		220	U	410	U
bis(2-Ethylhexyl)phthalate	49,000	150	JB	610	B	3000	JB	3300	JB
Benzo(b)fluoranthene	900	79		59		220	U	410	U
Benzo(k)fluoranthene	900	26		26		220	U	410	U
Benzo(a)pyrene	660	52		47		220	U	410	U
Total Confident Conc. BNAs	NA	469		424		91000		120000	
Total Estimated Conc. BNA TICs	NA	2480		18780		424000		389000	
PESTICIDES/PCBs									
Aroclor-1016	490	79	U	82	U	88	U	83	U
Aroclor-1221	490	79	U	82	U	88	U	83	U
Aroclor-1232	490	79	U	82	U	88	U	83	U
Aroclor-1242	490	79	U	82	U	88	U	83	U
Aroclor-1248	490	79	U	82	U	88	U	83	U
Aroclor-1254	490	79	U	82	U	88	U	83	U
Aroclor-1260	490	79	U	82	U	88	U	83	U

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
NA-Not Applicable
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 14 (Revised)
Remedial Investigation Soil Sampling Data
(AOC #17) Potwash Area
Florasynth, Inc. Teterboro, N.J.

Sample ID		A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	NJDEP Residential	16175		16176		16177		16178	
Sampling Date	Direct contact/Impact to	8/11/1997		8/11/1997		8/11/1997		8/11/1997	
Depth	Groundwater Cleanup	0-.5		1-1.5		0-.5		1-1.5	
Matrix	Criteria*	SOLID		SOLID		SOLID		SOLID	
Dilution Factor		NA		NA		NA		NA	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
METALS									
Aluminum	NV	9140		13000		9330		7940	
Antimony	14	1.2	U	1.3	U	1.4	U	1.3	U
Arsenic	20	3.5		10.2		2.2		2	
Barium	700	41	B	75.3		32.1	B	29.1	B
Beryllium	1	0.41	B	0.76		0.39	B	0.35	B
Cadmium	39	0.094	U	0.098	U	0.11	U	0.099	U
Calcium	NV	1940		3140		1240	B	1090	B
Chromium	(hexavalent) 20	18.1		20.4		15.9		14	
Cobalt	NV	6	B	12.4		5.3	B	5	B
Copper	600	21.6		24.4		10.5		9.8	
Iron	NV	16700		34000		16000		14100	
Lead	400	21		14.3		9.2	B	8.4	B
Magnesium	NV	2380		5790		1850		1680	
Manganese	NV	447		1080		195		171	
Mercury	14	0.059	U	0.061	U	0.066	U	0.062	U
Nickel	250	11.9		27		9.9	B	8.8	B
Potassium	NV	639	B	1410		383	B	325	B
Selenium	63	1.1	U	1.2	U	1.3	U	1.2	U
Silver	110	0.28	U	0.29	U	0.32	U	0.3	U
Sodium	NV	209	B	212	B	233	B	249	B
Thallium	2	0.9	U	0.93	U	1	U	0.94	U
Vanadium	370	27.8		25.9		29.4		25.9	
Zinc	1500	40.6		73.6		27.6		22.8	
WET CHEMISTRY									
TPHC	10,000	54.2		480		176		36	

Qualifiers
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NV-No Value
* -Most stringent criteria used.
Notes:
1,000,000 ppb Total Volatile Organics Maximum
10,000,000 ppb Total Organics Maximum

Table 15 (Revised)
Remedial Investigation Analytical Data
(AOC #17) Potwash Area - Stormwater
Florasynth, Inc. Teterboro, N.J.

Sample ID		FracTank-81297-1		Excavation-81297	
Lab Sample Number	NJDEP Ground	16173		16174	
Sampling Date	Water Quality	8/12/1997		8/12/1997	
Matrix	Criteria/Practical	WATER		WATER	
Dilution Factor	Quantitation Levels*	25		1	
Units	ug/l	ug/l		ug/l	
VOLATILE COMPOUNDS (GC/MS)					
Trichlorofluoromethane	NV	150		0.2	U
Toluene	1000				
Total Confident Conc. VOAs (s)	NA	161		13	
Total Estimated Conc. VOA TICs (s)	NA	8422		96	
SEMIVOLATILE COMPOUNDS (GC/MS)					
Diethylphthalate	5000				
bis(2-Ethylhexyl)phthalate	30			590	
Total Confident Conc. BNAs (s)	NA	6200		616	
Total Estimated Conc. BNA TICs (s)	NA	72940		1449	
PESTICIDES/PCBs					
Aroclor-1016	0.5	0.2	U	0.2	U
Aroclor-1221	0.5	0.4	U	0.4	U
Aroclor-1232	0.5	0.1	U	0.1	U
Aroclor-1242	0.5	0.4	U	0.4	U
Aroclor-1248	0.5	0.3	U	0.3	U
Aroclor-1254	0.5	0.4	U	0.4	U
Aroclor-1260	0.5	0.1	U	0.1	U
METALS					
Antimony	20	5.3	U	5.3	U
Arsenic	8	15.1		9	
Beryllium	20	0.3	U	0.36	
Cadmium	4	0.4	U	0.4	U
Chromium	100	5.1		2	
Copper	1000	16.1		9.9	
Lead	10	14.9		2.2	U
Mercury	2	0.1	U	0.1	U
Nickel	100	8.8		3.6	
Selenium	50	4.8	U	4.8	U
Silver	NV	1.2	U	1.2	U
Thallium	10	3.8	U	3.8	U
Zinc	5000	42.9		27.2	
Sample ID		FracTank-81297-1		Excavation-81297	
Lab Sample Number	NJDEP Ground	16173		16174	
Sampling Date	Water Quality	8/12/1997		8/12/1997	
Matrix	Criteria/Practical	WATER		WATER	
Dilution Factor	Quantitation Levels*	NA		NA	
Units	mg/l	mg/l		mg/l	
WET CHEMISTRY					
TPHC	NN	8.1		1	U

Qualifiers:
NN- None Noticeable
U-The compound was not detected at the indicated concentration.
J-The concetration given is an approximate value.
B-The analyte was found in the laboratory blank as well as the sample.
NR-Not analyzed.
NA-Not Applicable
NV-No Value
* -Least stringent criteria used.

Baker

Baker Environmental, Inc.

ATTACHMENT C

AOC #14 No Further Action Letter

201-612-1382

State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Robert C. Shinn, Jr.
Commissioner

MAR 14 1997

David J. Freeman
Battle Fowler
75 East 55th Street
New York, NY 10022

Re: Remediation Agreement in the Matter of Florasynth, Inc.
Teterboro, Bergen County
ISRA Case # 95108
Sampling Results Dated: January 7, 1997

Dear Mr. Freeman:

Please be advised that the New Jersey Department of Environmental Protection (NJDEP) has completed its review of the above referenced Sampling Results. The NJDEP's comments regarding the Sampling Results are noted below:

I Soil Comments

AOC #1

Stressed Vegetation - Florasynth, Inc. collected a surficial soil sample in this Area of Concern (AOC). The laboratory results indicated that a composite sample was collected. However, after discussions with Peter Sporacco at the facility during a site inspection on February 26, 1997, it was determined that the sample was not a composite sample as described in the Department's Field Sampling Procedures Manual (May 1992). Based on this information and a review of the sampling results, the Department has determined the sampling results for this area to be acceptable with the exception of those results for volatile organic compounds (VOCs). Sampling procedures as outlined in the Technical Requirements for Site Remediation (TRSR) were not followed. Therefore, the Department has determined the results with regard to VOCs to be unacceptable. Specific guidelines regarding sampling procedures for VOCs can be found in the TRSR, 7:26E-3.6. Florasynth shall collect one additional sample in this area and analyze this sample for VOCs as per the TRSR.

TRSR

VOC's unacceptable

AOC #9

Former 10,000 gallon #2 Fuel Oil UST

The requirements for fill material used to restore a site after remediation are found in N.J.A.C. 7:26E, the Technical Requirements for Site Remediation, at section 6.4(b), Post Remedial Action Requirements. In order to avoid any unnecessary delays or mistakes associated with the fill material used on a site, these requirements should be reviewed by the party conducting remediation as soon as it is determined that remedial action for soil will be necessary. Delays in case closure result whenever it cannot be verified that fill material used on the site is in compliance with the Technical Requirements.

AOC # 14

Fill material used to restore a site after remediation has been completed shall be similar in physical properties to the material removed unless otherwise approved in advance by the NJDEP. The use of fill that differs in physical properties, such as increased permeability, can adversely influence rain water infiltration, ground water movement and contaminant mobility and migration in the filled area of the site.

HFA

In an effort to determine the cleanliness of the backfill material (concrete aggregate) used in this area, Florasynth, Inc. collected one sample from this area and analyzed it for Priority Pollutants+40. The sampling results indicated that the concrete aggregate is uncontaminated pursuant to applicable remediation standards. Based on this information, the Department has determined that no further action is required in this area with regard to soils issues.

Florasynth, Inc. should note that if it is determined, through ground water investigation, that the backfill material is adversely impacting ground water quality, the Department reserves the right to reopen this area of concern.

II General Requirements

WB

1. Florasynth, Inc. shall submit the results or additional work plans, in triplicate, in accordance with the approved schedule. Please note that only one copy of the Quality Assurance/Quality Control Deliverables is needed.

RA Schedule

2. Florasynth, Inc. shall submit a revised Remedial Action Schedule, pursuant to N.J.A.C. 7:26E-6.5, for NJDEP approval which includes all tasks associated with the remediation of the site within thirty (30) calendar days of the receipt of this letter.

3. Florasynth, Inc. shall submit summarized analytical results in accordance with the Technical Requirements For Site Remediation, N.J.A.C. 7:26E.

SAMPLING

4. Florasynth, Inc. shall collect all samples in accordance with the sampling protocol outlined in the May, 1992 edition of the NJDEP's "Field Sampling Procedures Manual".

5. Florasynth, Inc. shall notify the assigned BEECRA Case Manager at least 14 calendar days prior to implementation of all field activities included in the Remedial Action Workplan. If Florasynth, Inc. fails to initiate sampling within 30 calendar days of the receipt of this approval, any requests for an extension of the required time frames may be denied.

ISRA Fee Rule

6. On February 22, 1994, the New Jersey Department of Environmental Protection (NJDEP) promulgated the ISRA Fee Rule amendments at 26 N.J.R. 1142, which were proposed on April 5, 1993 at 25 N.J.R. 1375. Pursuant to the fee rule amendments, the NJDEP will bill an owner or operator according to the direct billing formula at N.J.A.C. 7:26B-1.10(f)2. At this time, the NJDEP intends to process bills on a semi-annual basis. The NJDEP encourages responsible parties to use the "Technical Requirements for Site Remediation" (N.J.A.C. 7:26E) as well as any other current NJDEP guidance documents to assist in remediation activities and thereby minimize NJDEP review time. The complexity of the environmental contamination at the site and the quality of the workplans and reports submitted to the NJDEP will dictate the oversight costs to the regulated community.

Estimate Remaining Cost of Cleanup

7. Pursuant to N.J.S.A. 58:10B-3, a remediation funding source is to be established in an amount equal to or greater than the cost estimate of the implementation of the remediation and shall be in effect for a term not less than the actual time necessary to perform the remediation at the site. N.J.S.A. 58:10B-3 allows for a change of the amount in the remediation funding source as the cost estimate changes. Please provide the current estimated cost of the remaining remediation required at the site. Any increases in the estimated cost estimate will require an increase in the amount in the Remediation Funding Source to an amount at least equal to the new estimate. Any requests to decrease the amount in the remediation funding source will be reviewed and approved by the NJDEP upon a finding that the current remediation cost estimate will be sufficient to fund all necessary remediation.

If you have any questions, please contact the Case Manager, Kathleen Schrier, at (609) 633-1427.

Sincerely,

Stephen Maybury, Acting Bureau Chief
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

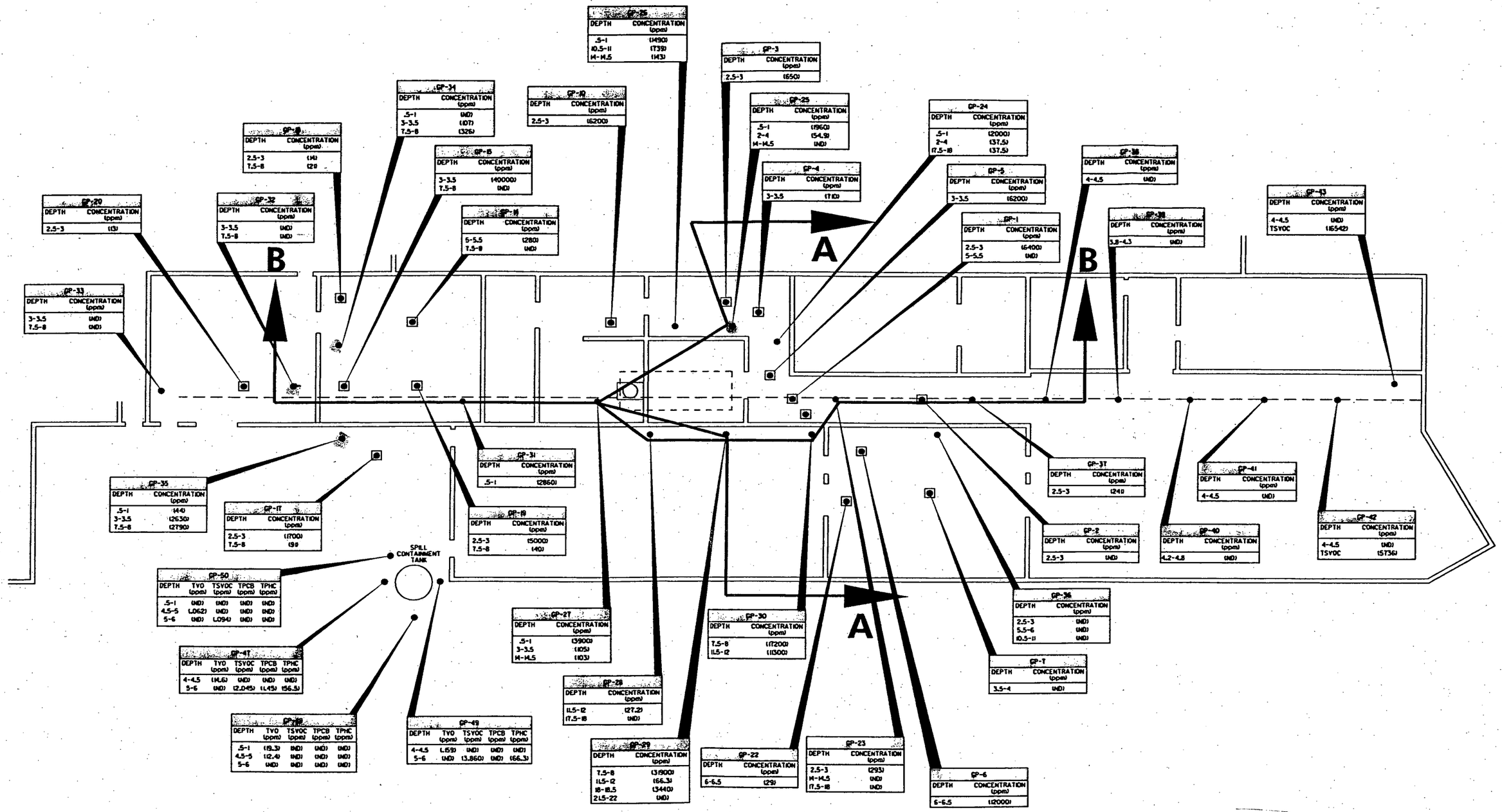
c: Paul Nutkowski, BEERA
Gary Smarsh, BGWPA
Mark Guarino, Bergen County Department of Health Services
Peter Sparaco, Florasynth, Inc.
Bayer AG Bayer-Werk

Baker

Baker Environmental, Inc.

ATTACHMENT D

AOC #8 Cross Section Diagrams



LEGEND

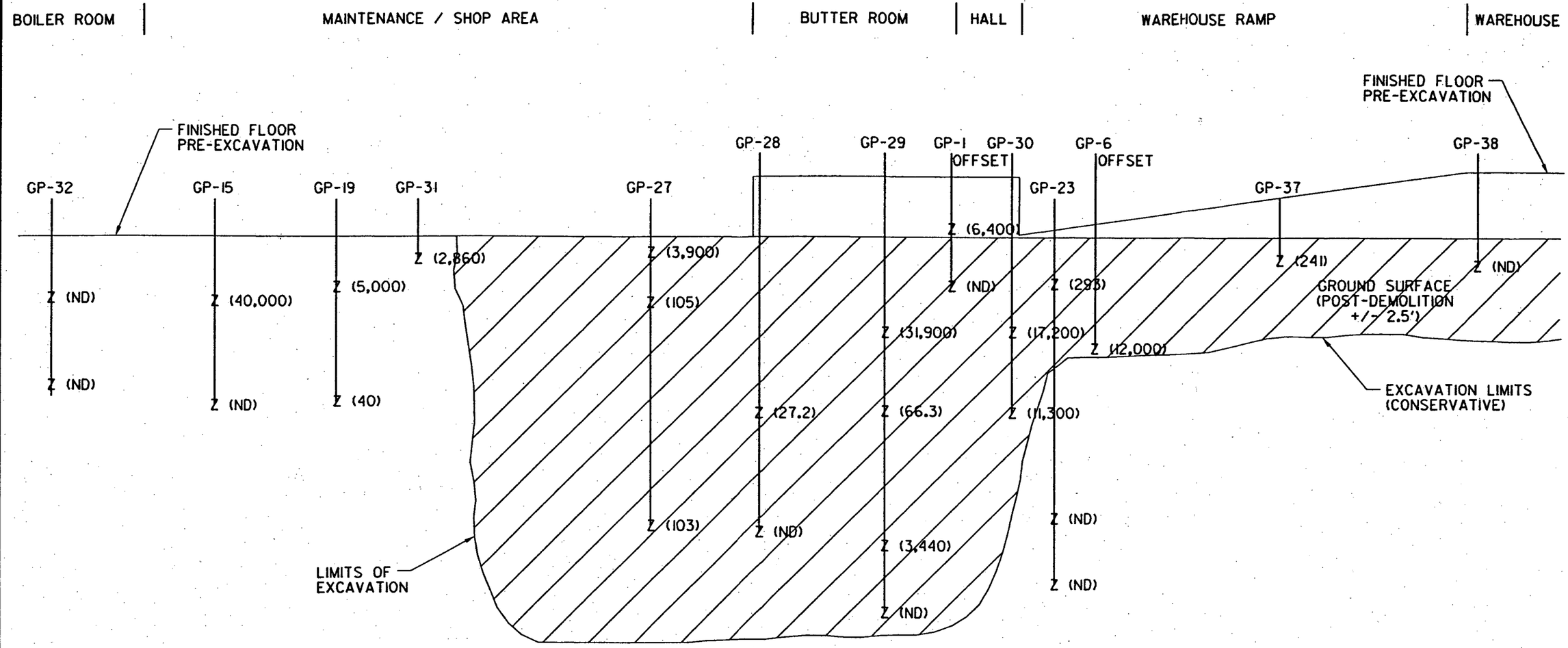
- ◙ PREVIOUS SAMPLE LOCATION
- ● RI SAMPLE LOCATION
- TPHC - TOTAL PETROLEUM HYDROCARBONS
- PPM - PARTS PER MILLION

FLORASYNTH, INC. SITE INVESTIGATION/REMEDIAL INVESTIGATION

ATTACHMENT D
AOC#8 – CROSS SECTION LOCATION

Baker Environmental, Inc.
307 College Road East
Princeton, NJ 08540
(609) 734-7900

SCALE: 1/4"=1'-0" | DATE: SEPT 22 1997 | SO. NO. 22680-000-0000-00002 | FILE NAME: F:\SMI\TETERBOR\ATTACHMENT-D.DGN



SECTION B–B

HORZ. SCALE: 1"-10'
VERT. SCALE: 1"=5'

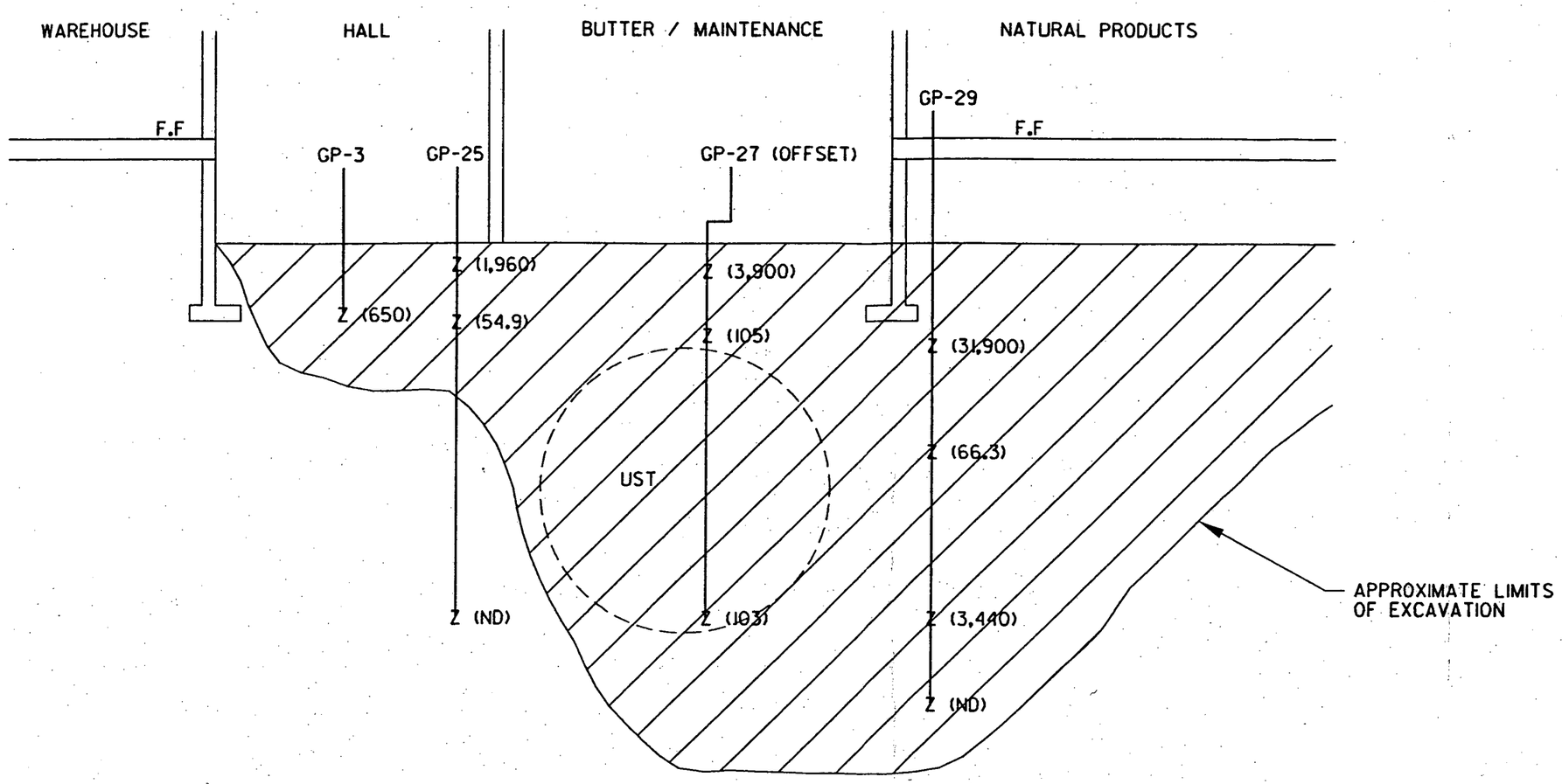
NOTE:

( ) TPHC CONCENTRATION IN PARTS PER MILLION (ppm)

(ND) NOT DETECTED

FLORASYNTH, INC.	SITE INVESTIGATION/REMEDIAL INVESTIGATION
AOC#8 – CROSS SECTION B–B	
Baker Environmental, Inc.	307 College Road East Princeton, NJ 08540 (609) 734-7900

SCALE:	DATE:	SO. NO.	FILE NAME:
AS NOTED	FEB. 17, 2000	22680-000-0000-00002	F:\ SMI\TETERBOR\AOC8-XSECT.DGN



SECTION A–A

HORZ. SCALE: 1"=5'
VERT. SCALE: 1"=5'

NOTE:

( ) TPHC CONCENTRATION IN PARTS PER MILLION (ppm)

(ND) NOT DETECTED

FLORASYNTH, INC.	SITE INVESTIGATION/REMEDIAL INVESTIGATION
AOC#8 – CROSS SECTION A–A	
Baker Environmental, Inc.	307 College Road East Princeton, NJ 08540 (609) 734-7900

SCALE:	DATE:	SO. NO.	FILE NAME:
AS NOTED	FEB. 17, 2000	22680-000-0000-00002	F:\ SMI\TETERBOR\AOC8-XSECTA.DGN

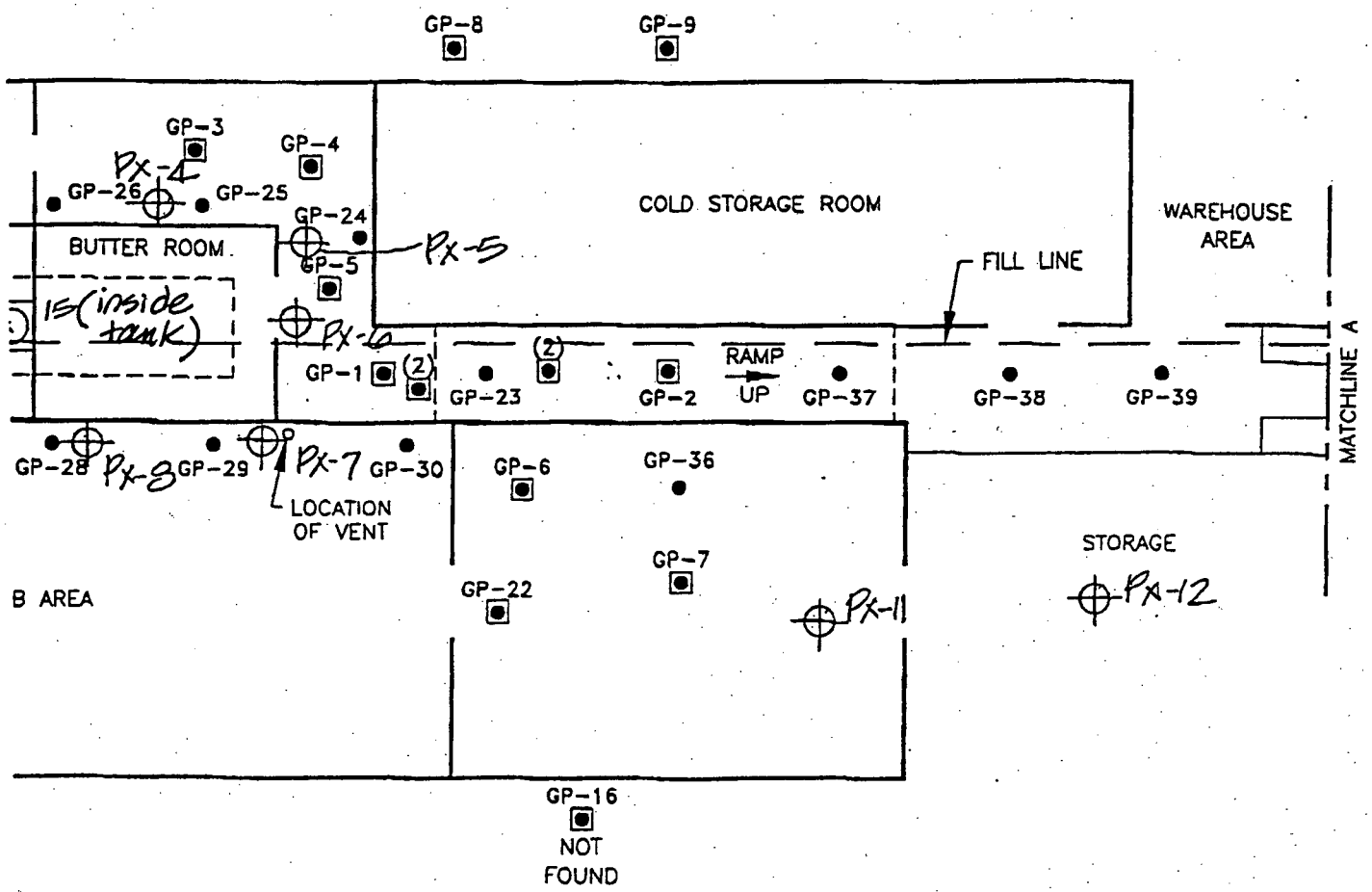
Baker

Baker Environmental, Inc.

ATTACHMENT E

Sketch of Pre-Excavation Sample Locations

22680F02



ATTACHMENT E
page 1 of 2

REVISED FEB 2000
REVISED OCT 1997
REVISED MAY 1997

15 0 7.5 15
1 inch = 15 ft.

Baker

LEGEND

GP-11 PREVIOUS SAMPLE LOCATION

GP-43 PROPOSED SAMPLE LOCATION

(1) PREVIOUS SAMPLE LOCATION OBSERVED IN FIELD, CAN NOT BE IDENTIFIED

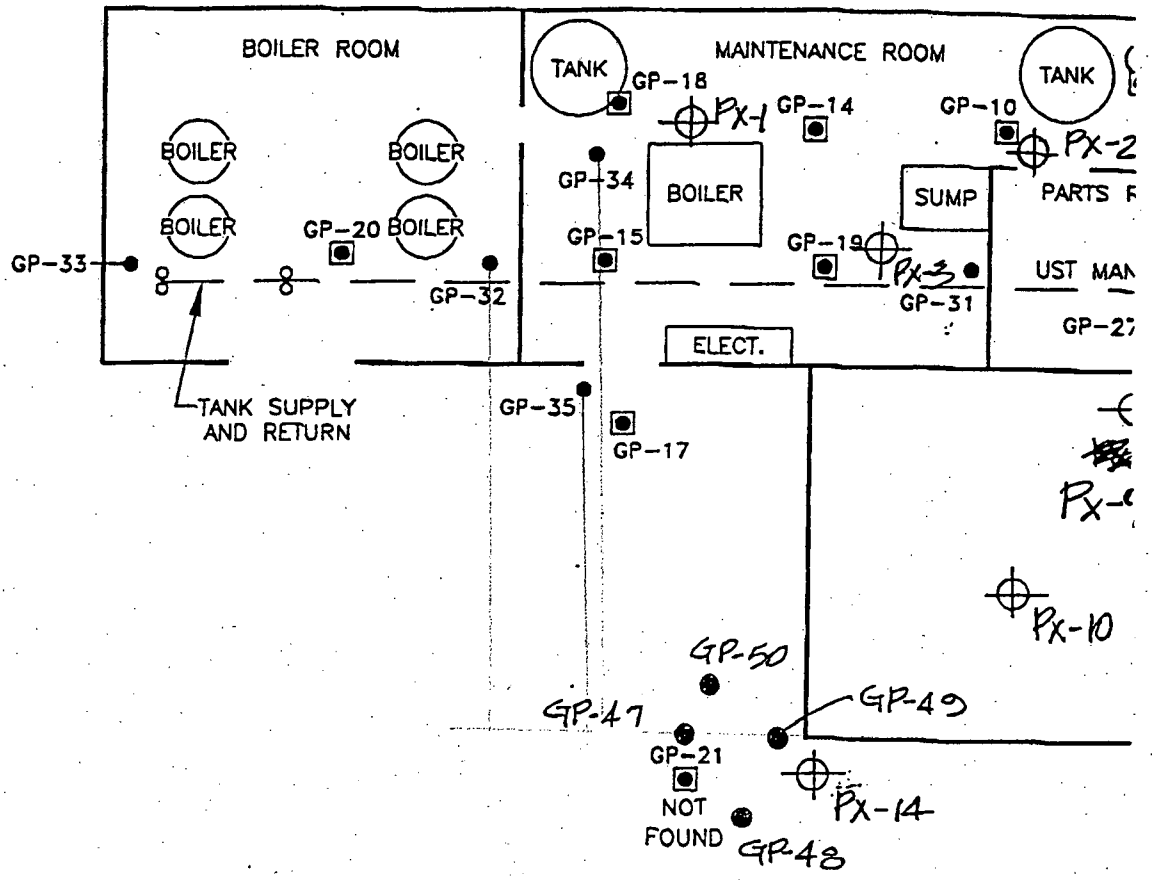
Pre-Excavation Sample Location

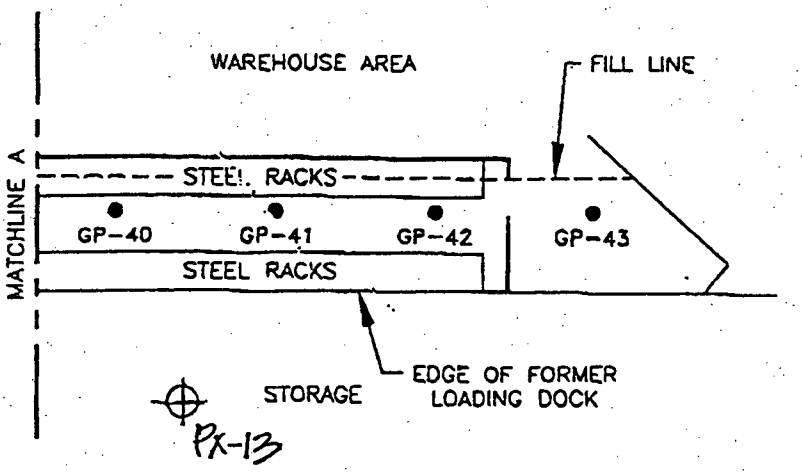
REMEDIAL INVESTIGATION WORKPLAN

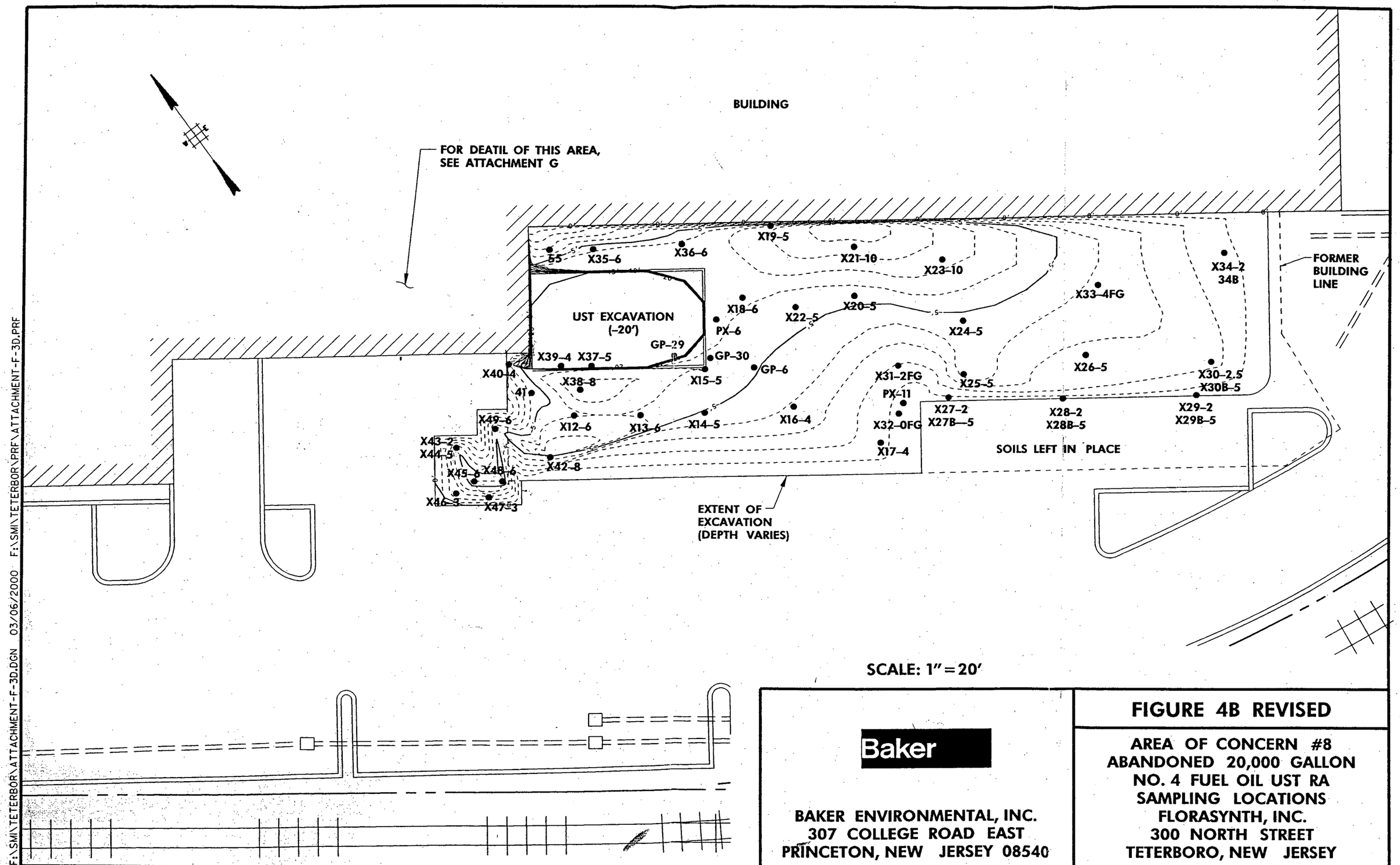
FIGURE 8 (REVISED)
PROPOSED SOIL SAMPLE LOCATIONS
AOC 5-7

FLORASYNTH, INC.
TETERBORO, NEW JERSEY
JANUARY 1997

ATTACHMENT E
page 2 of 2







Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 4B REVISED

AREA OF CONCERN #8
ABANDONED 20,000 GALLON
NO. 4 FUEL OIL UST RA
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

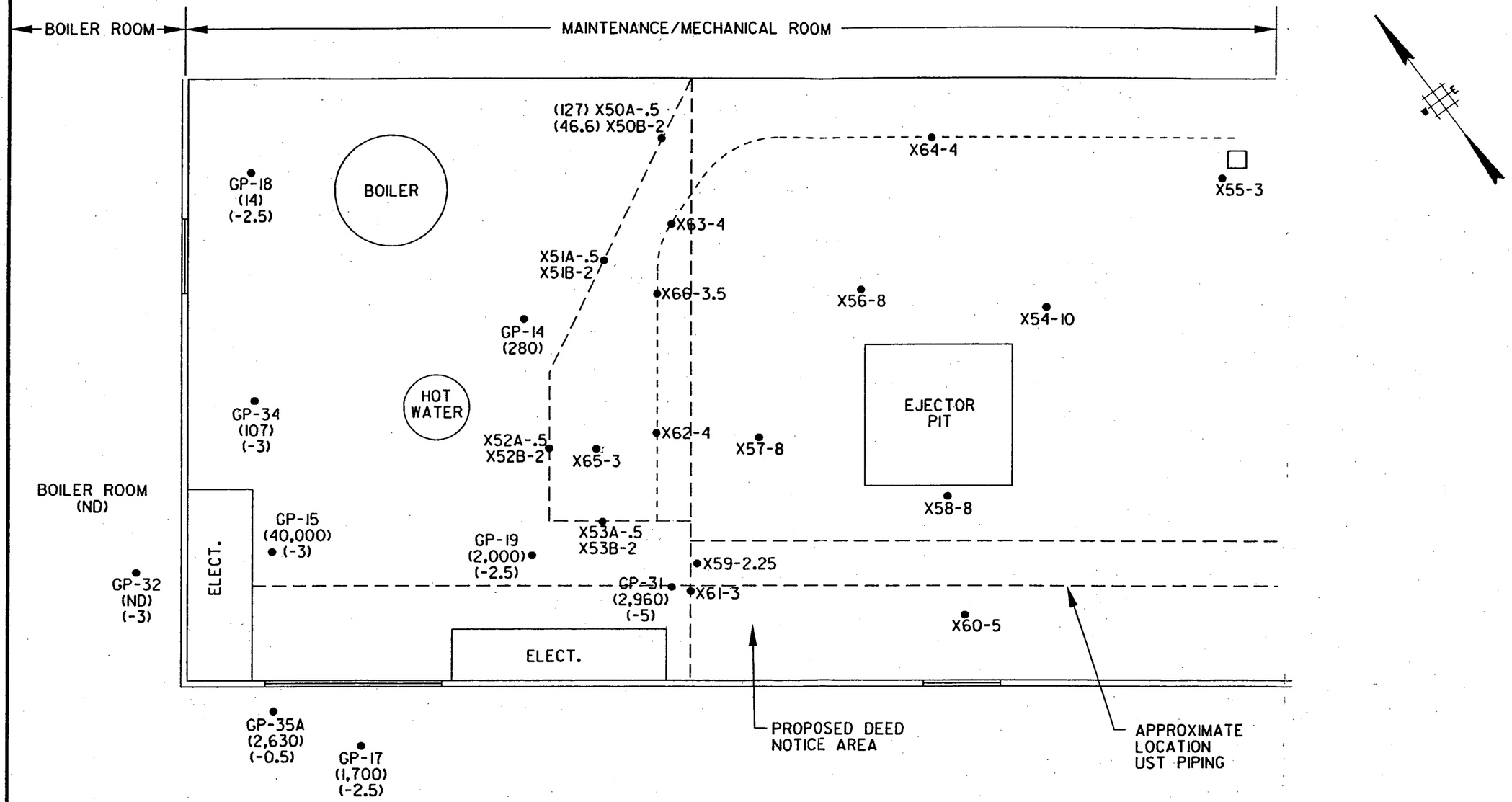
F:\SMI\TETERBOR\ATTACHMENT-F-3D.DGN 03/06/2000 F:\SMI\TETERBOR\PRF\ATTACHMENT-F-3D.PRF

Baker

Baker Environmental, Inc.

ATTACHMENT G

Horizontal Delineation of GP-15 AOC #8 Deed Notice Area



NOTE:

( ) TPHC CONCENTRATION IN PARTS PER MILLION (ppm)

(-2) SAMPLE DEPTH BELOW FINISHED FLOOR

(ND) NOT DETECTED

FLORASYNTH, INC.	SITE INVESTIGATION/REMEDIAL INVESTIGATION

ATTACHMENT G
MAINTENANCE /MECHANICAL ROOM

Baker Environmental, Inc.

307 College Road East
Princeton, NJ 08540
(609) 734-7900

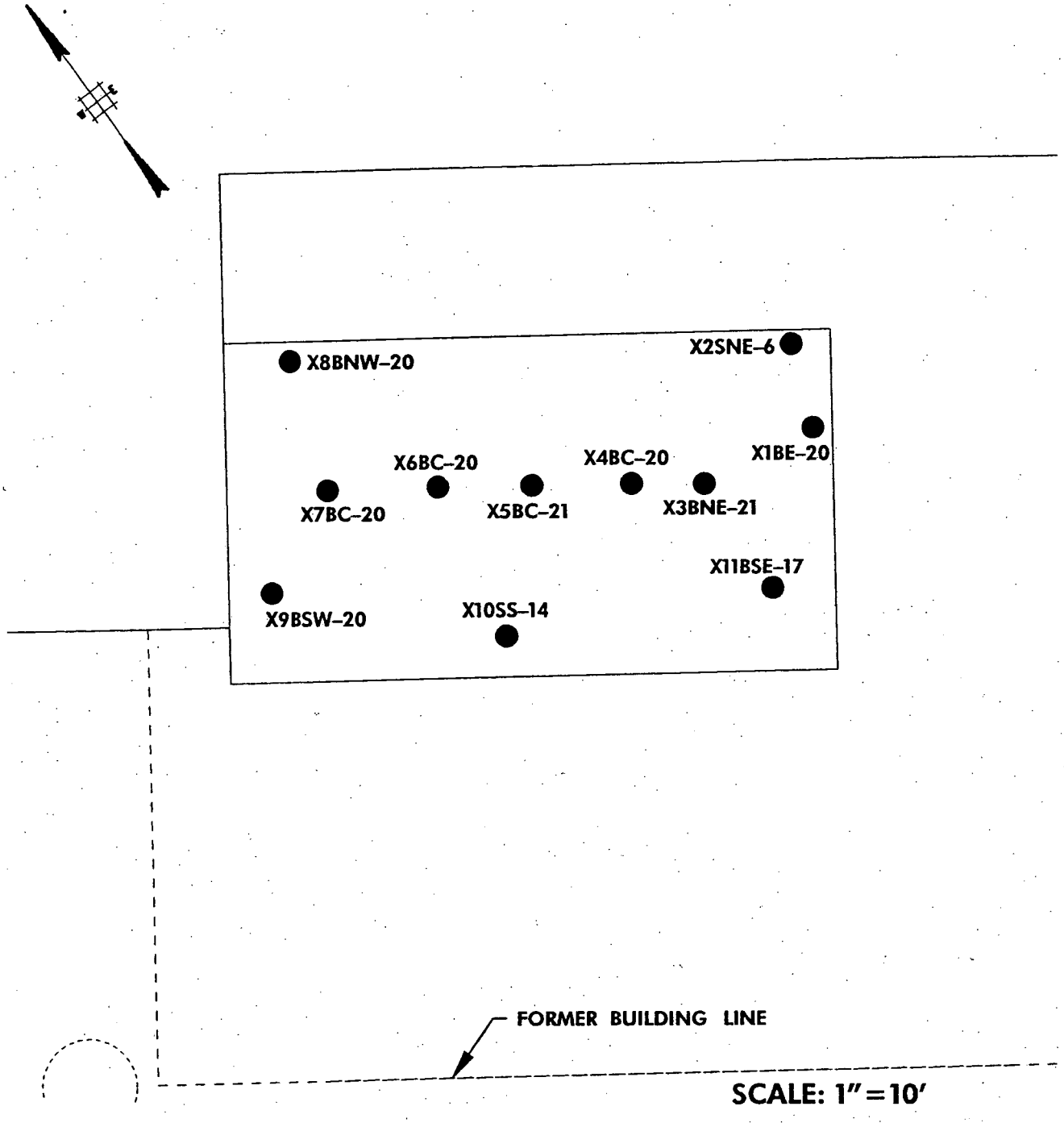
SCALE:	DATE:	SO. NO.	FILE NAME:
1"=5'	FEB. 17, 2000	22680-000-0000-00002	E:\ SMI\TETERBOR\ATTACHMENT-G.DGN

Baker

Baker Environmental, Inc.

ATTACHMENT H

Revised Figure 4A



Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 4A REVISED

AREA OF CONCERN #8
20,000 GALLON NO. 4 FUEL OIL UST
RA POST EXCAVATION
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

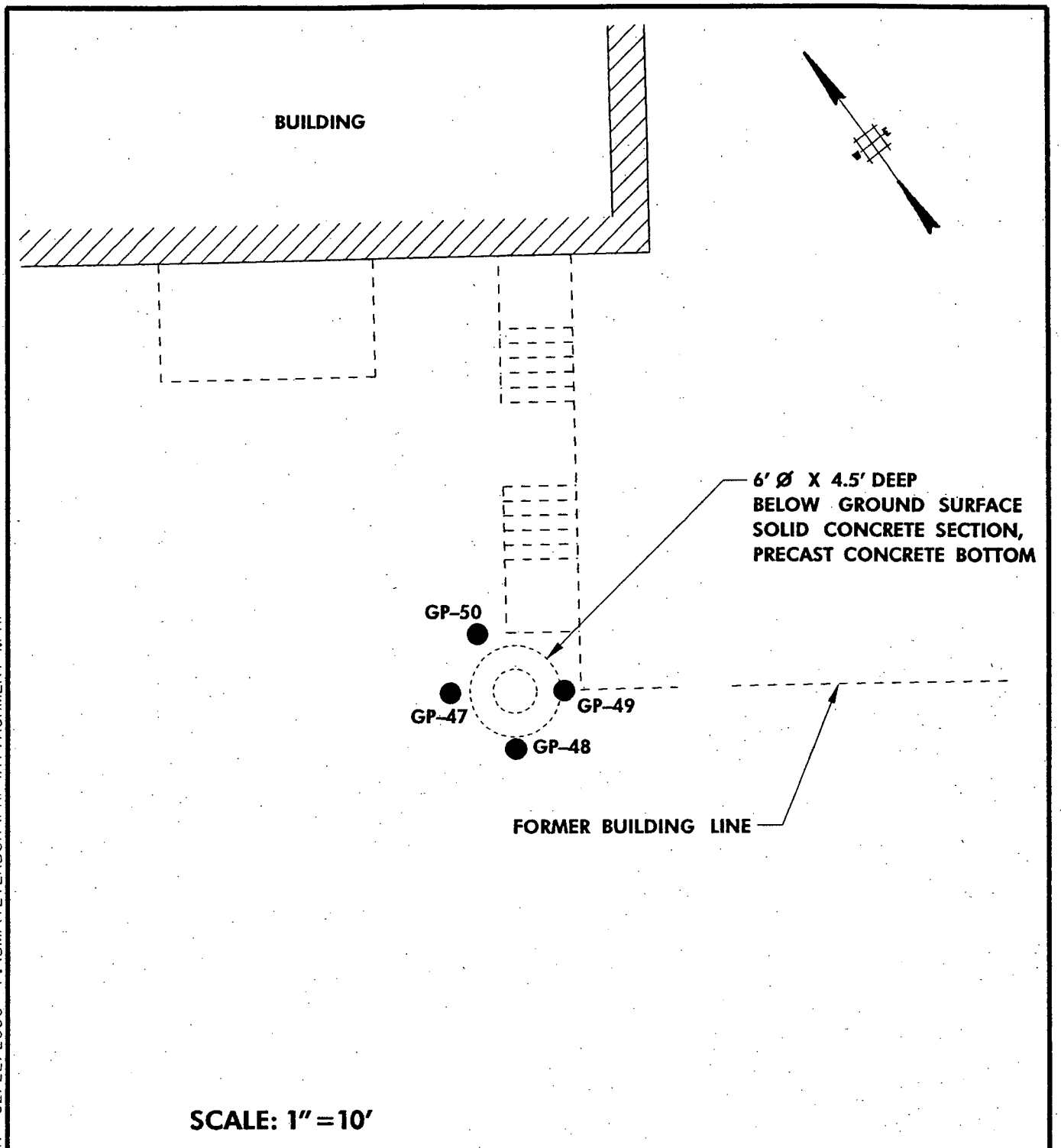
F:\SMI\TETERBOR\FIG-4A.DGN 03/06/2000 F:\SMI\TETERBOR\PRF\FIG-4A.PRF

Baker

Baker Environmental, Inc.

ATTACHMENT I

Spill Containment Tank Systems



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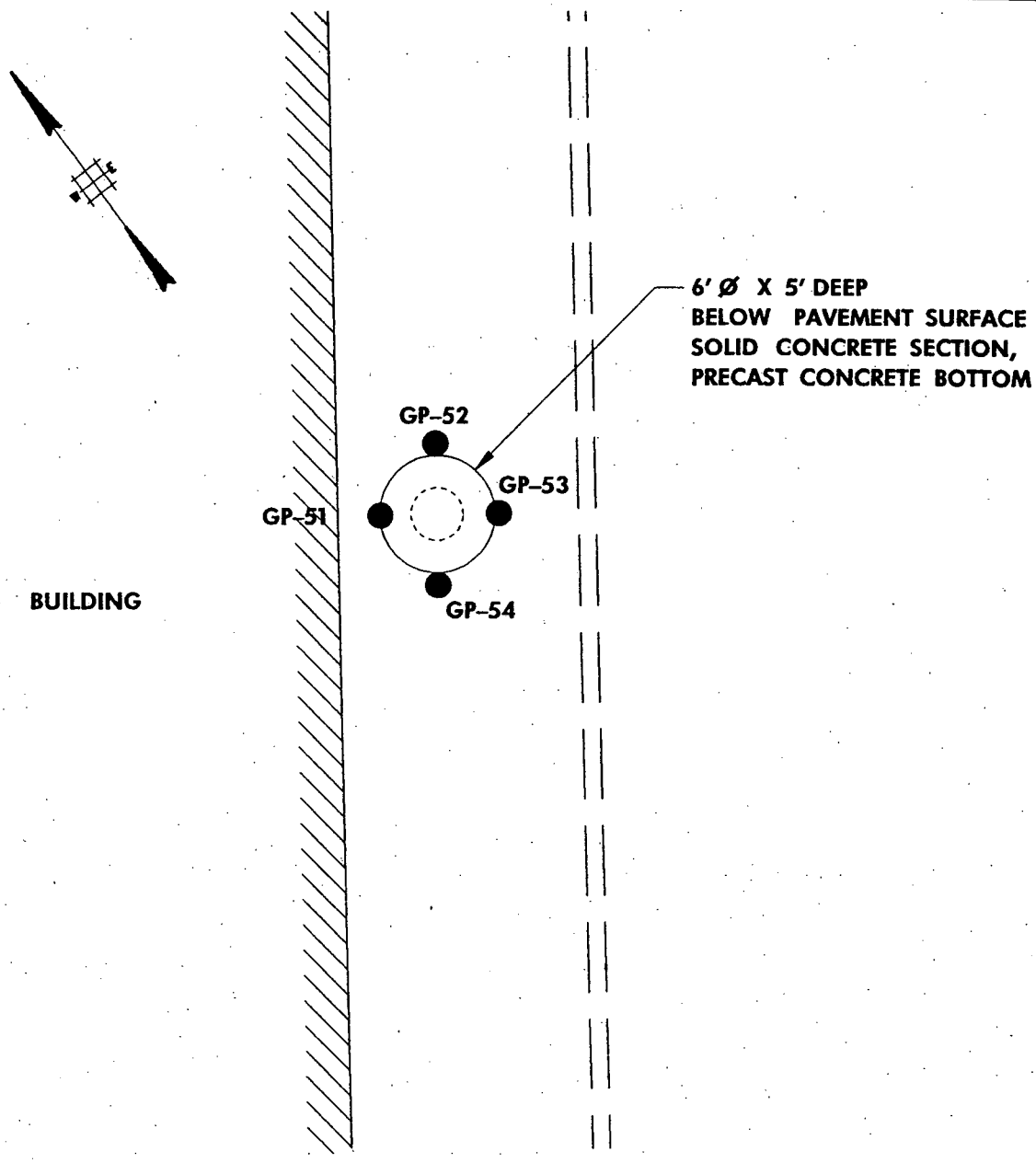
Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5A REVISED

AREA OF CONCERN #10a
SPILL CONTAINMENT TANK DETAIL
OUTSIDE FORMER NATURAL
PRODUCTS AREA
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY



SCALE: 1" = 10'

Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5B REVISED

AREA OF CONCERN #10b
SPILL CONTAINMENT TANK DETAIL
LOADING DOCK AREA
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

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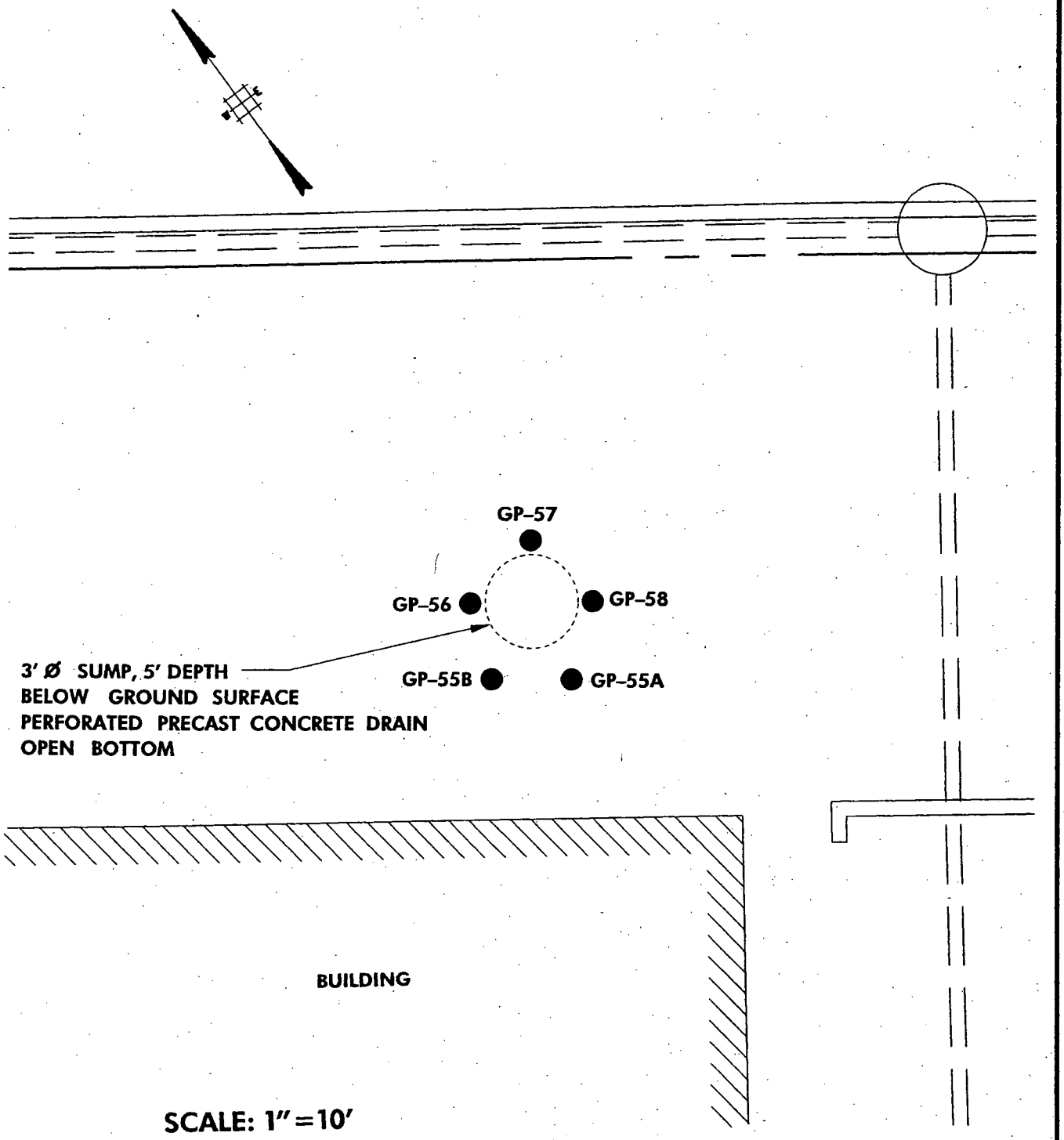

Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5C REVISED

AREA OF CONCERN #10c
SPILL CONTAINMENT TANK DETAIL
FRONT OF BUILDING
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

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Baker

Baker Environmental, Inc.

ATTACHMENT J

Spill Containment Tank Systems Closure Report

CLOSURE OF SPILL CONTAINMENT SUMP SYSTEMS

300 North Street
Teterboro, NJ
ISRA Case 95108

INTRODUCTION

This report was prepared by Baker Environmental, Inc. (Baker) to document remedial action (RA) activities associated with closure of two spill containment sump systems at the Haarmann & Reimer (H&R, formerly Florasynth, Inc.) facility located at 300 North Street, Teterboro, New Jersey (Site).

This RA Report is submitted in general accordance with the Technical Requirements for Site Remediation (TRSR) found at NJAC 7:26E et seq. The RA activities described in this report were performed in compliance with the New Jersey Industrial Site Recovery Act (ISRA) as part of an active ISRA Case Number 95108. The Areas of Concern (AOCs) addressed by this RA Report include two spill containment sump systems located on the east and north sides of the facility which have been identified previously as AOC 10B and 10C, respectively. The locations of AOC 10B and AOC 10C can be found in Figure 1 of the *Remedial Investigation/Remedial Action Report and Remedial Action Workplan, dated December 4, 1998.* Both spill containment sump systems were closed by removal and post excavation soil samples were collected and analyzed.

HISTORICAL REVIEW

The spill containment sumps were constructed in the mid-1970's and were designed to contain accidental material spills within the production and loading dock areas of the plant. These spill containment sumps were registered with NJDEP in 1997 under the existing UST Facility Identification Number 0228675.

In 1997, major renovation activities were initiated at the facility. Construction activities included a three-story office addition to the west side of the facility, partial demolition of existing structures on the south side of the building and renovation of production areas within the building. During the 1997 renovation activities, which included demolition of the room the sump serviced, the northern spill containment sump was disconnected from the spill control drainage piping and temporarily abandoned. As part of the facility renovation, the spill containment plumbing at the loading dock was recently rerouted to an above ground storage tank system. Closure of the two systems was solely for the purpose of facility renovation. H&R obtained approval from the Department for closure of the systems on February 27, 1998. The previous Case Manager, Ms. Eileen Antolino, was notified by phone on September 7, 1999 and by letter dated September 8, 1999, that the two remaining spill containment sump systems would be closed. After obtaining the local construction permit, closure operations were conducted in October 1999.

Summary of Previous Studies

In 1997, a remedial investigation was conducted at the site to evaluate previously identified AOCs (including AOC 10B and AOC 10C). During the RI, each of the spill containment sumps was investigated through a series of soil borings performed surrounding each sump. The 1997 soil boring locations are presented in Figures 1 and 2. A summary of the soil samples collected from the soil borings is presented in Table 1. Soil sample analytical results are summarized in Tables 2 and 3. As shown, no contamination exceeding NJDEP Soil Cleanup Criteria was detected in the soil samples collected and analyzed from the soil borings collected during the RI. A complete description of the activities performed in AOC 10B and AOC 10C can be found in the *Remedial Investigation/Remedial Action Report and Remedial Action Workplan for Florasynth, Inc.*, dated December 4, 1998.

TECHNICAL OVERVIEW

Sump closure operations were conducted on October 7 and 8, 1999 by Betts Environmental Services Corporation (UST Certification Number 00038). Baker observed the closure operations and performed subsurface evaluation activities.

The former spill containment sumps were closed by removal in accordance with NJDEP requirements. Prior to excavation, 3,810 gallons of residual liquids (predominantly perched stormwater trapped within the sump backfill) were removed from the sumps using a vacuum tanker truck. These liquids were temporarily stored in a tank trailer supplied by LORCO Petroleum Services. The liquids were sampled by Betts Environmental Services Corporation for waste classification parameters and, based on the results of the waste classification analyses, the liquids were transported as non-hazardous to the LORCO facility in Old Bridge, New Jersey for disposal.

The top of each of the containment sumps was opened using a backhoe. After inspection, drainage piping to each sump was cut and capped and each sump was excavated from the subsurface and placed on an equipment trailer for removal from the site. Excavated concrete materials were transported to Express Recycling and Sanitation in Teaneck, NJ.

Because of the time lapse between closure approval and actual system closure, additional soil samples were collected to evaluate subsurface conditions. Soil samples were collected from the excavation subgrades at a depth of approximately 5.5 to 6 feet below grade to document soil conditions remaining in place. Post-excavation soil sample locations are presented in Figures 1 and 2. Soil samples were collected and submitted for the parameters described in Table 1. The collected soil samples were submitted to Integrated Analytical Laboratories, LLC (New Jersey Certified Lab #14751) for analyses. Post-excavation soil sample analytical results are summarized in Table 4. The NJDEP "Reduced" laboratory analytical data deliverable is presented in Appendix A. Analytical results and field sampling data are summarized in the "HAZSITE" electronic data deliverable format on the enclosed diskette.

Upon completion of the closure operations, the excavations were backfilled using a mixture of quarry processed stone obtained from Van Orden Sand & Gravel of Ringwood and excavated soils, which did not contain contamination, removed from the excavation areas. The excavation areas were restored to pre-existing grade and condition (pavement or landscaping).

Waste disposal and material receipts for the waste materials generated during the project and the crushed stone materials used as backfill are presented in Appendix B.

Integrated Analytical Laboratory quality assurance personnel have reviewed the analytical data deliverable packages. Chain of custody records, Methodology Summaries and Non-Conformance Summaries are included with each deliverable. Each deliverable contains the required tuning, method, calibration, surrogate, spike and internal standard summaries. Analytical results, MDL/PQL and NJDEP criteria have been compared for the compounds of concern at the site and no irregularities have been observed. On this basis, the laboratory analytical data for this project are considered reliable and representative.

FINDINGS

Field Observations and Screening Results

Cross sections showing the construction of each of the spill containment sumps are presented in Figures 1 and 2. Each of the sumps was constructed of cylindrical precast concrete sections that were surrounded with coarse gravel backfill. The northern sump (AOC 10C) was observed to be a precast perforated drain unit with an open bottom set on a bed of gravel. The eastern sump (10B) was

constructed using a solid concrete section with a precast concrete bottom.

Subsurface soils encountered in the soil borings performed surrounding the sumps and during closure operations were observed to include approximately 2 feet of fill soils overlying thinly varved red brown silty clays and clayey silts (CL-ML). No field screening readings above background were observed. No visual evidence of contamination was observed. Trapped water was encountered at depths ranging from 0.5 to 2 feet below grade at the eastern and northern sump areas, respectively. The encountered water was contained within the sump structures and perched in the

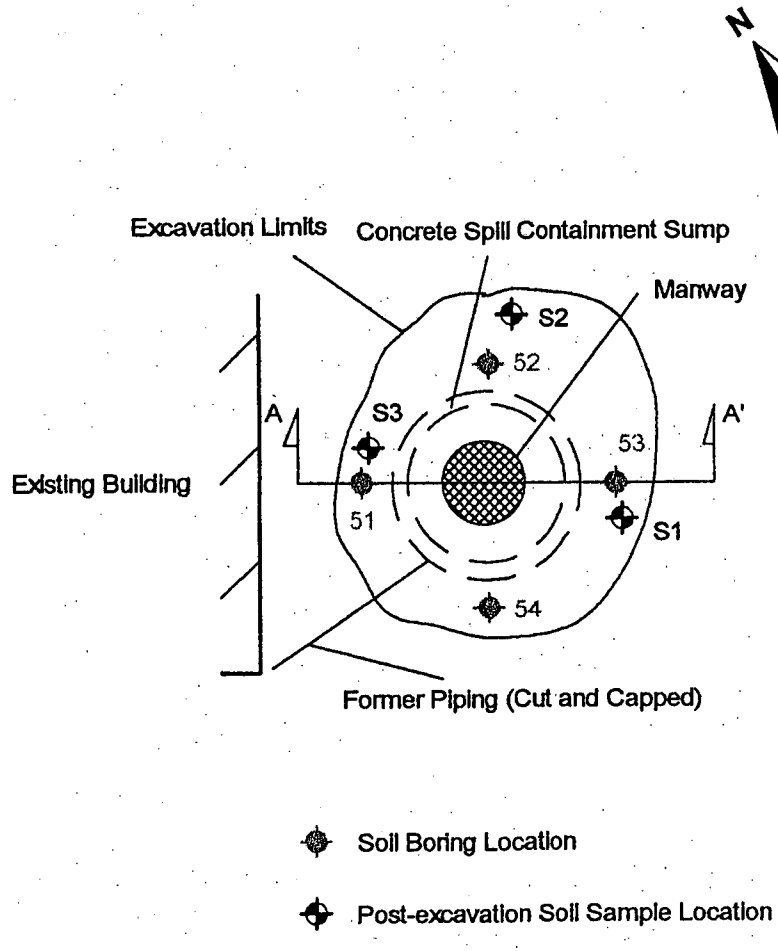
surrounding gravel backfill. During sump closure operations, the perched water in the sumps and excavation areas was removed and properly disposed off-site by Lorco Petroleum Services of Old Bridge, NJ.

Soil Sample Analytical Results

Soil sample analytical results from the soil borings and post-excavation soil samples are summarized on Tables 2 through 4. No compounds of concern at concentrations exceeding NJDEP Residential Direct Contact Soil Cleanup Criteria were detected.

CONCLUSIONS

Two former spill containment sumps (AOCs 10B and 10C) have been investigated and closed by removal. No contaminants of concern were detected in soils at concentrations exceeding NJDEP SCC. On the basis of the activities performed, no further action, with the exception of amending the existing facility UST registration to delist these two spill containment systems, is required for AOCs 10B and 10C.



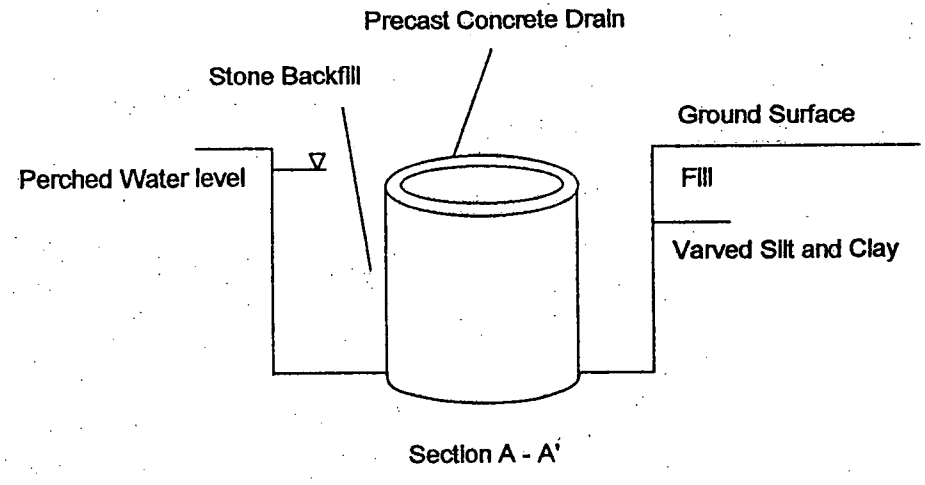


Figure 1
AOC 10B
Spill Containment Sump Plan and Section
H&R Florasynth, Teterboro, N. J.
Scale: 1" = 5' 12/13/99

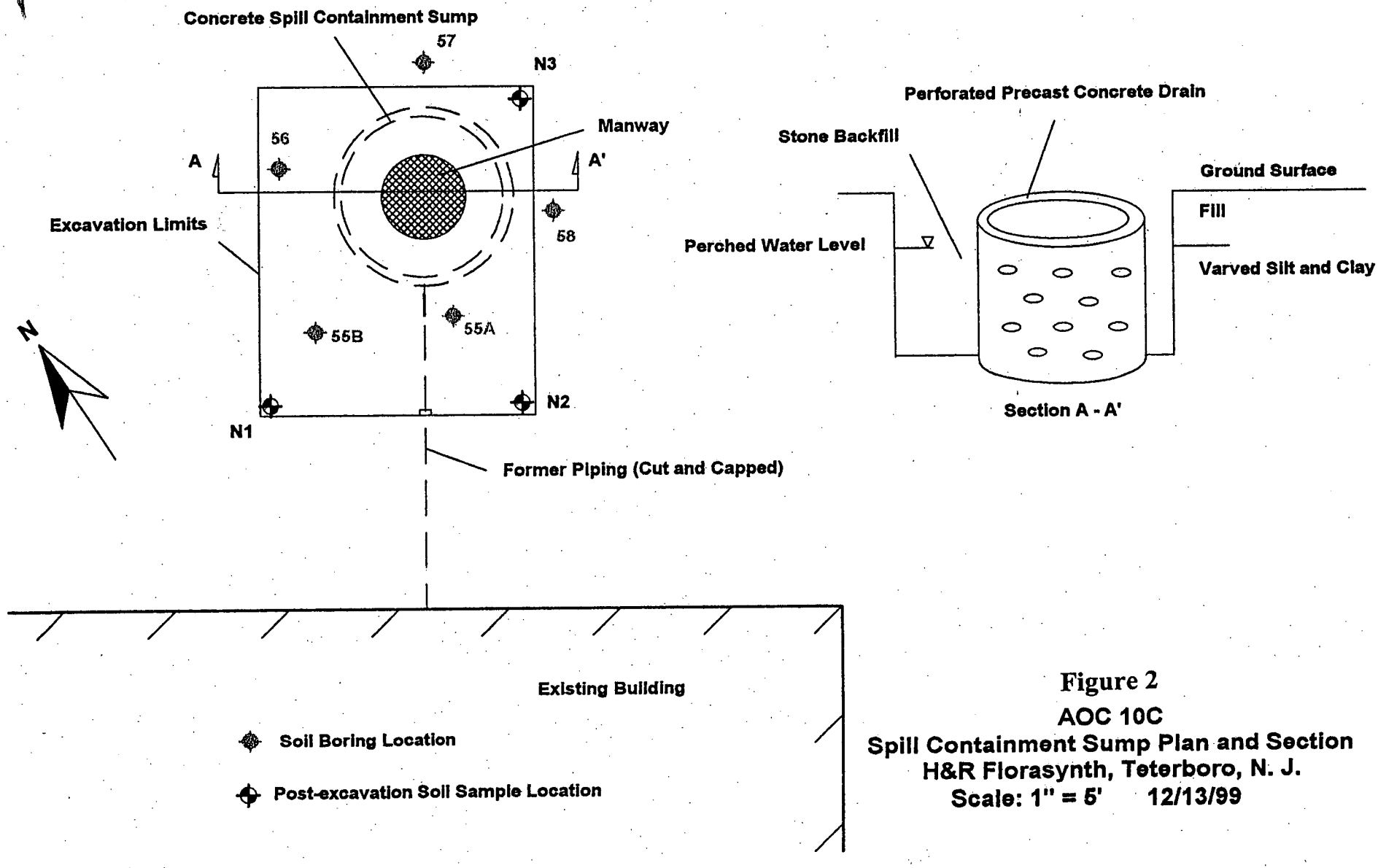


Figure 2
AOC 10C
Spill Containment Sump Plan and Section
H&R Florasynth, Teterboro, N. J.
Scale: 1" = 5' 12/13/99

Table 1
Spill Containment Sump Sample Summary
H&R Florasynth, Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	BN+15	VO+10	PCB's	TAL Metals	PP Metals
GP 51 S1	10B	7/31/1997	Soil	5.5	6.0			X			
GP 51 S2	10B	7/31/1997	Soil	6.0	6.5			X			
GP 51 S3	10B	7/31/1997	Soil	6.5	7.0	X	X		X	X	
GP 52 S1	10B	7/31/1997	Soil	5.0	5.5			X			
GP 52 S2	10B	7/31/1997	Soil	5.5	6.0	X	X		X	X	
GP 53 S1	10B	7/31/1997	Soil	5.0	5.5			X			
GP 53 S2	10B	7/31/1997	Soil	5.5	6.0	X	X		X	X	
GP 53 S3	10B	7/31/1997	Soil	6.0	6.5	X	X		X	X	
GP 54 S1	10B	7/31/1997	Soil	5.0	5.5			X			
GP 54 S2	10B	7/31/1997	Soil	5.5	6.0	X	X		X	X	
GP 55A S1	10C	7/31/1997	Soil	1.5	2.0			X			
GP 55B S1	10C	7/31/1997	Soil	1.5	2.0			X			
GP 55B S2	10C	7/31/1997	Soil	2.0	3.0	X	X		X	X	
GP 55B S3	10C	7/31/1997	Soil	7.0	7.5			X			
GP 55B S4	10C	7/31/1997	Soil	7.5	8.0	X	X		X	X	
GP 56 S1	10C	7/31/1997	Soil	1.5	2.0			X			
GP 56 S2	10C	7/31/1997	Soil	2.0	2.5	X	X		X	X	
GP 56 S3	10C	7/31/1997	Soil	7.0	7.5			X			
GP 56 S4	10C	7/31/1997	Soil	7.5	8.0	X	X		X	X	
GP 57 S1	10C	7/31/1997	Soil	7.0	7.5	X	X		X	X	
GP 57 S1	10C	7/31/1997	Soil	7.5	8.0			X			
GP 58 S1	10C	7/31/1997	Soil	1.5	2.0			X			
GP 58 S2	10C	7/31/1997	Soil	2.0	3.0	X	X		X	X	
GP 58 S3	10C	7/31/1997	Soil	7.0	7.5			X			
GP 58 S4	10C	7/31/1997	Soil	7.5	8.0	X	X		X	X	
N1	10C	10/8/1999	Soil	5.5	6.0		X	X			
N2	10C	10/8/1999	Soil	5.5	6.0		X	X			
N3	10C	10/8/1999	Soil	5.5	6.0		X	X			
S1	10B	10/8/1999	Soil	5.5	6.0		X	X			
S2	10B	10/8/1999	Soil	5.5	6.0		X	X			
S3	10B	10/8/1999	Soil	5.5	6.0		X	X			
TB10899	10	10/8/1999	Blank				X				
FB10899	10	10/8/1999	Blank					X			

Table 2
Remedial Investigation Soil Sampling Data
(AOC-10B) Loading Dock Spill Containment Sump
Florasynth, Teterboro, N.J.

Sample ID	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	5.5-6		6-6.5		6.5-7		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1		1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)																				
MethyleneChloride	0.0015	B	0.0068	B		NR	0.029	B		NR	0.01	B		NR		NR	0.0032	B		NR
Trichlorofluoromethane	0.0028		0.0013	U		NR	0.074			NR	0.037			NR		NR	0.0032			NR
Total Conf. Conc. VOAs (s)	0.0028		0				0.074				0.037						0.0032			
Total Est. Conc. VOA TICs (s)	0		0				0.1				0.035						0			
SEMIVOLATILE COMPOUNDS (GC/MS)																				
Acenaphthylene		NR		NR	0.021	U		NR	0.012	J		NR	0.0089	J	0.021	U		NR	0.023	U
Acenaphthene		NR		NR	0.021	U		NR	0.036			NR	0.012	J	0.021	U		NR	0.023	U
Fluorene		NR		NR	0.021	U		NR	0.041			NR	0.015	J	0.021	U		NR	0.035	
Phenanthrene		NR		NR	0.033			NR	0.23			NR	0.088		0.021	U		NR	0.22	
Anthracene		NR		NR	0.021	U		NR	0.057			NR	0.024		0.021	U		NR	0.07	
Pyrene		NR		NR	0.048			NR	0.26			NR	0.13		0.021	U		NR	0.2	
Benzo(a)anthracene		NR		NR	0.028			NR	0.1			NR	0.059		0.021	U		NR	0.11	
Chrysene		NR		NR	0.026			NR	0.13			NR	0.074		0.021	U		NR	0.092	
bis(2-Ethylhexyl)phthalate		NR		NR	0.086	J		NR	0.65			NR	0.41	U	0.42	U		NR	0.46	U
Benzo(b)fluoranthene		NR		NR	0.034			NR	0.13			NR	0.098		0.021	U		NR	0.075	
Benzo(k)fluoranthene		NR		NR	0.014	J		NR	0.051			NR	0.04		0.021	U		NR	0.035	
Benzo(a)pyrene		NR		NR	0.024			NR	0.1			NR	0.085		0.021	U		NR	0.076	
Indeno(1,2,3-cd)pyrene		NR		NR	0.016	J		NR	0.059			NR	0.048		0.021	U		NR	0.023	U
Dibenz(a,h)anthracene		NR		NR	0.021	U		NR	0.016	J		NR	0.014	J	0.021	U		NR	0.023	U
Benzo(g,h,i)perylene		NR		NR	0.015	J		NR	0.056			NR	0.047		0.021	U		NR	0.023	U
Total Confident Conc. BNAs (s)					0.256				2.19				0.823		0				1.153	
Total Estimated Conc. BNA TICs (s)					0				1.2				0		0				0	
PESTICIDES/PCBs																				
Aroclor-1016		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1221		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1232		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1242		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1248		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1254		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U
Aroclor-1260		NR		NR	0.086	U		NR	0.086	U		NR	0.083	U	0.085	U		NR	0.092	U

Table 2
Remedial Investigation Soil Sampling Data
(AOC-10B) Loading Dock Spill Containment Sump
Florasynth, Teterboro, N.J.

Sample ID	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	5.5-6		6-6.5		6.5-7		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA				NA				NA		NA				NA	
Units					mg/kg				mg/kg				mg/kg		mg/kg				mg/kg	
METALS																				
Aluminum		NR		NR	13300			NR	12000			NR	6870		13900			NR	14600	
Antimony		NR		NR	0.74	U		NR	0.74	U		NR	0.72	U	0.74	U		NR	0.8	U
Arsenic		NR		NR	8.2			NR	10.1			NR	5.8		6.1			NR	7.7	
Barium		NR		NR	109			NR	79.7			NR	44.1		93.2			NR	91.2	
Beryllium		NR		NR	0.74			NR	0.66			NR	0.36	B	0.76			NR	0.7	
Cadmium		NR		NR	0.24	B		NR	0.27	B		NR	0.15	B	0.22	B		NR	0.12	B
Calcium		NR		NR	3420			NR	6640			NR	19500		3640			NR	2620	
Chromium		NR		NR	21.7			NR	18.8			NR	11		22.3			NR	22.7	
Cobalt		NR		NR	22.1			NR	13.4			NR	6.9		14.6			NR	19.6	
Copper		NR		NR	28.7			NR	27.2			NR	13.6		29.7			NR	29.7	
Iron		NR		NR	31200			NR	33100			NR	15900		31700			NR	25000	
Lead		NR		NR	14			NR	12.1			NR	8.3		14.6			NR	14.5	
Magnesium		NR		NR	6900			NR	6090			NR	4240		6690			NR	6840	
Manganese		NR		NR	960			NR	783			NR	587		711			NR	382	
Mercury		NR		NR	0.064	U		NR	0.064	U		NR	0.062	U	0.063	U		NR	0.069	U
Nickel		NR		NR	35.9			NR	29			NR	14.8		33.6			NR	36.5	
Potassium		NR		NR	1230			NR	1680			NR	741		1600			NR	1310	
Selenium		NR		NR	0.95	U		NR	0.95	U		NR	0.91	U	0.94	U		NR	1	U
Silver		NR		NR	0.26	B		NR	0.2	U		NR	0.2	U	0.29	B		NR	0.25	B
Sodium		NR		NR	146	B		NR	283			NR	197	B	272			NR	211	B
Thallium		NR		NR	1.1	U		NR	1.1	U		NR	1.1	U	1.1	U		NR	1.2	U
Vanadium		NR		NR	24.6			NR	22.4			NR	12.9		25			NR	24.4	
Zinc					82.3				69.7				43		81.5				88.3	
WET CHEMISTRY																				
TPHC (418.1)		NR		NR	25	U		NR	569			NR	25	U	25	U		NR	25	U

Qualifiers

U - The compound was not detected at the indicated concentration.
J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 3
Remedial Investigation Soil Sampling Data
(AOC-10C) Front Spill Containment Sump
Florasynth, Teterboro, N.J.

Sample ID	GP57S1_7-7.5		GP57S1_7.5-8		GP58S1		GP58S2		GP58S3		GP58S4	
Lab Sample Number	14910		14911		14912		14913		14914		14915	
Sampling Date	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1				1				1			
Units	mg/kg				mg/kg				mg/kg			
VOLATILE COMPOUNDS (GC/MS)												
MethyleneChloride	0.0046	B		NR	0.0045	B		NR	0.0043	B		NR
Trichlorofluoromethane	0.0033			NR	0.098			NR	0.0046			NR
1,2-Dichloropropane	0.0011	U		NR	0.0013	U		NR	0.0011	J		NR
Tot. Confident Conc. VOA	0.0033				0.098				0.0046			
Tot. Est. Conc. VOA TICs (	0.018				0.095				0.375			
SEMIVOLATILE COMPOUNDS (GC/MS)												
Acenaphthylene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Acenaphthene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Fluorene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Phenanthrene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Anthracene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Fluoranthene		NR	0.02	U		NR	0.019	J		NR	0.021	U
Pyrene		NR	0.02	U		NR	0.017	J		NR	0.021	U
Benzo(a)anthracene		NR	0.02	U		NR	0.016	J		NR	0.021	U
Chrysene		NR	0.02	U		NR	0.011	J		NR	0.021	U
Benzo(b)fluoranthene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Benzo(k)fluoranthene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Benzo(a)pyrene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Indeno(1,2,3-cd)pyrene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Dibenz(a,h)anthracene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Benzo(g,h,i)perylene		NR	0.02	U		NR	0.02	U		NR	0.021	U
Total Confident Conc. BNAs (s)			0				0				0	
Total Estimated Conc. BNA TICs (s)			0				5.56				7.53	

Qualifiers

U - The compound was not detected at the indicated concentration.
J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 3
Remedial Investigation Soil Sampling Data
(AOC-10C) Front Spill Containment Sump
Florasynth, Teterboro, N.J.

Sample ID	GP55AS1		GP55BS1		GP55BS2		GP55BS3		GP55BS4		GP56S1		GP56S2		GP56S3		GP56S4	
Lab Sample Number	14901		14902		14903		14904		14905		14906		14907		14908		14909	
Sampling Date	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	1.5-2		1.5-2		2.0-3.0		7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA				NA				NA				NA	
Units					mg/kg				mg/kg				mg/kg				mg/kg	
PESTICIDES/PCBs																		
Aroclor-1016		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1221		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1232		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1242		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1248		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1254		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
Aroclor-1260		NR		NR	0.08	U		NR	0.082	U		NR	0.08	U		NR	0.082	U
METALS																		
Aluminum		NR		NR	9380			NR	12200			NR	7520			NR	13500	
Antimony		NR		NR	0.69	U		NR	0.71	U		NR	0.69	U		NR	0.71	U
Arsenic		NR		NR	7.3			NR	8			NR	9.6			NR	3.8	
Barium		NR		NR	85.1			NR	79.5			NR	89.1			NR	96.3	
Beryllium		NR		NR	0.6			NR	0.75			NR	0.48			NR	0.75	
Cadmium		NR		NR	0.26	B		NR	0.3	B		NR	0.33	B		NR	0.21	B
Calcium		NR		NR	1820			NR	1970			NR	24300			NR	1820	
Chromium		NR		NR	16			NR	20.8			NR	14.4			NR	21	
Cobalt		NR		NR	9.3			NR	14.3			NR	5.9			NR	17.7	
Copper		NR		NR	19.5			NR	27.6			NR	19.9			NR	27.5	
Iron		NR		NR	25100			NR	34200			NR	15100			NR	31000	
Lead		NR		NR	19.7			NR	13.4			NR	55.4			NR	11.9	
Magnesium		NR		NR	3430			NR	5260			NR	7670			NR	5710	
Manganese		NR		NR	274			NR	424			NR	397			NR	340	
Mercury		NR		NR	0.06	U		NR	0.082	U		NR	0.1			NR	0.081	U
Nickel		NR		NR	20.6			NR	31			NR	13.3			NR	36.6	
Potassium		NR		NR	498			NR	955			NR	278			NR	1210	
Selenium		NR		NR	0.88	U		NR	0.91	U		NR	0.89	U		NR	0.91	U
Silver		NR		NR	0.19	U		NR	0.2	U		NR	0.28	B		NR	0.2	U
Sodium		NR		NR	92.1	B		NR	216	B		NR	148	B		NR	224	B
Thallium		NR		NR	1	U		NR	1.1	U		NR	1	U		NR	1.1	U
Vanadium		NR		NR	21.8			NR	26			NR	27.6			NR	23	
Zinc		NR		NR	52.6			NR	72.3			NR	51.3			NR	83.9	
WET CHEMISTRY																		
TPHC (418.1)		NR		NR	25	U		NR	25	U		NR	25	U		NR	25	U

Table 3
Remedial Investigation Soil Sampling Data
(AOC-10C) Front Spill Containment Sump
Florasynth, Teterboro, N.J.

Sample ID	GP57S1_7-7.5		GP57S1_7.5-8		GP58S1		GP58S2		GP58S3		GP58S4	
Lab Sample Number	14910		14911		14912		14913		14914		14915	
Sampling Date	7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997		7/31/1997	
Depth	7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			NA				NA				NA	
Units			mg/kg				mg/kg				mg/kg	
PESTICIDES/PCBs												
Aroclor-1016		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1221		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1232		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1242		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1248		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1254		NR	0.083	U		NR	0.081	U		NR	0.084	U
Aroclor-1260		NR	0.083	U		NR	0.081	U		NR	0.084	U
METALS												
Aluminum		NR	10800			NR	8220			NR	11800	
Antimony		NR	0.72	U		NR	0.7	U		NR	0.73	U
Arsenic		NR	4.8			NR	5.4			NR	17	
Barium		NR	80.6			NR	100			NR	90.9	
Beryllium		NR	0.6			NR	0.65			NR	0.74	
Cadmium		NR	0.17	B		NR	0.2	B		NR	0.26	B
Calcium		NR	2280			NR	1580			NR	3190	
Chromium		NR	19.1			NR	13.8			NR	20	
Cobalt		NR	13.7			NR	6.7			NR	14.5	
Copper		NR	24.4			NR	20.9			NR	28.7	
Iron		NR	26200			NR	14700			NR	36500	
Lead		NR	12.8			NR	23.9			NR	13.3	
Magnesium		NR	4750			NR	2190			NR	5220	
Manganese		NR	922			NR	138			NR	715	
Mercury		NR	0.062	U		NR	0.14			NR	0.063	U
Nickel		NR	27.9			NR	16.4			NR	29.5	
Potassium		NR	953			NR	144	B		NR	1310	
Selenium		NR	0.91	U		NR	0.89	U		NR	0.93	U
Silver		NR	0.2	U		NR	0.28	B		NR	0.2	U
Sodium		NR	223	B		NR	150	B		NR	262	
Thallium		NR	1.1	U		NR	1	U		NR	1.1	U
Vanadium		NR	24.9			NR	22.4			NR	27	
Zinc		NR	67.2			NR	40.2			NR	72	
WET CHEMISTRY												
TPHC (418.1)		NR	25	U		NR	25	U		NR	25	U

Table 4
Soil Sample Analytical Summary
Spill Containment Sump Closure
H&R Florasynth, Teterboro, N.J.

Sample Number	N1		N2		N3		S1		S2		S3		TB10899		FB10899	
Lab ID	6000-001		6000-002		600-003		6000-004		6000-005		6000-006		6000-007		6000-008	
Sampling Date	10/8/1999		10/8/1999		10/8/1999		10/8/1999		10/8/1999		10/8/1999		10/8/1999		10/8/1999	
Depth	5.5-6.0		5.5-6.0		5.5-6.0		5.5-6.0		5.5-6.0		5.5-6.0		Blank		Blank	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		AQUEOUS		AQUEOUS	
Dilution Factor	1		1		1		1		1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Volatile Organics	ND		ND		ND		ND		ND		ND		ND		NA	
Base Neutral Organics																
Phenanthrene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0586		NR		0.00057	U
Anthracene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0612		NR		0.0008	U
Fluoranthene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.113		NR		0.0005	U
Pyrene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.129		NR		0.0008	U
Benzo(a)anthracene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0611		NR		0.0005	U
Chrysene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0317	J	NR		0.00039	U
Bis(2-Ethylhexyl)phthalate	0.0406	U	0.102		0.0397	U	0.0451	U	0.0406	U	0.0272	J	NR		0.00047	U
Benzo(b)fluoranthene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0604		NR		0.00042	U
Benzo(k)fluoranthene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0258	J	NR		0.00093	U
Benzo(a)pyrene	0.0406	U	0.0431	U	0.0397	U	0.0451	U	0.0406	U	0.0443		NR		0.00065	U
Total BNA (s)	ND		0.102		ND		ND		ND		0.6123	J	NR		ND	
Total TIC's	ND		0.387	J	0.652	J	0.742	J	0.600	J	0.839	J	NR		ND	

Notes:

Concentrations are in mg/kg
U: Not detected
J: Estimated value
ND: Analyzed for but not detected above method detection limits
NR: Not analyzed

LORCO PETROLEUM SERVICES

RD1 Box 5A
Old Bridge, N.J. 08857
(908) 721-0900
Fax (908) 721-0231

STANDARD COLLECTION ORDER FORM

108845

GENERATOR/LOCATION

OFFICE USE ONLY

NAME H+A Forasyth

INFORMATION/ATTENTION LINE

ACCOUNT APPROVAL CODE

DELIVERY ADDRESS

CITY Teterboro

STATE ZIP

PHONE NUMBER

PURCHASE ORDER NUMBER

USA EPA ID NO (IF APPLICABLE)

STATE ID NO

BILL TO (IF DIFFERENT FROM LOCATION)

NAME Netts Emp

INFORMATION/ATTENTION LINE

ACCOUNT APPROVAL CODE

DELIVERY ADDRESS

CITY

STATE ZIP

PHONE NUMBER

PURCHASE ORDER NUMBER

MANIFEST NUMBER

SHIPPING INFORMATION

This is to certify that the below named material, are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

NO	TYPE	QTY	UNIT	US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	SALES REPRESENTATIVE

SERVICE SECTION

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT OF MEASURE	PRICE	TAX	LINE TOTAL
40500	USED OIL REMOVAL						
40501	OIL WATER DISPOSAL		3810	gals			
40502	SLUDGE DISPOSAL						
41000	NON HAZARDOUS DISPOSAL						
41001	RCRA WASTE DISPOSAL						
41500	VAC TRUCK & OPERATOR						
41501	DRUM DISPOSAL						
41502	SEPARATOR CLEANING						
41503	QAQC ANALYTICAL TESTING						
41504	TANK CLEANING						
41505	CONFINED SPACE ENTRY						
42000	MANIFEST PROCESSING FEE						
42001	DEXSIL TEST KIT						

TOTAL

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT SECTION $

INVOICES REFLECTING CHARGES TO CUSTOMER ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF 1½% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT LORCO SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED LORCO HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261. GENERATOR AGREES TO INDEMNIFY AND HOLD LORCO HARMLESS FOR ANY DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR

Generator certifies that the waste is _____

In accordance the N.J.A.C. 7.26-12.1 et seq, LORCO has the required permits to accept the above described waste.

SANDRA TORIELLO — Operations Manager

Print Name — Title

Sandra Toriello

Signature — Date

GENERATOR/CUSTOMER

SMALL QUANTITY GENERATOR CERTIFICATION

I certify that this generator generates less than 100 kilograms (approximately 220 pounds or 30 gallons) of hazardous waste per month, as defined at 40 C.F.R. 261, and does not accumulate more than 1,000 kilograms of such waste during the month

GENERATOR'S SIGNATURE

LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL CDT TEST RESULTS

_____ PPM

PAYMENT RECEIVED SECTION

CASH [ ]	TOTAL RECEIVED
CHECK NUMBER	

PAYMENT MADE SECTION

PAYMENT METHOD	PAYMENT AMOUNT
CASH [ ] CHECK [ ]	

RECEIVED BY

CUSTOMER'S SIGNATURE

In accordance with 40 CFR 266 § 43(5) LORCO has notified the US EPA of its location and used oil management activities

J. Sothe

Print Name

Signature — Date

LORCO REPRESENTATIVE

Integrated Analytical Labs

Integrated Analytical Laboratories, LLC.

273 Franklin Road
Randolph, N.J. 07869

Phone: 973 361-4252
Fax: 973 989-5288

ANALYTICAL DATA REPORT

for

Baker Environmental
307 College Road E.
Princeton,NJ 08540

Project: FLORASYNTH
Lab Case Number: 10990-6000
Date Report Prepared: October 22, 1999

CLIENT SAMPLE ID	LABORATORY SAMPLE ID
N1	6000-001
N2	6000-002
N3	6000-003
S1	6000-004
S2	6000-005
S3	6000-006
TB10899	6000-007
FB10899	6000-008

All required protocols were followed during analyses. These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D.
Laboratory Director

The liability of Integrated Analytical Laboratories, LLC. is limited to the actual cost of the analyses performed.

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PRINCETON, NJ

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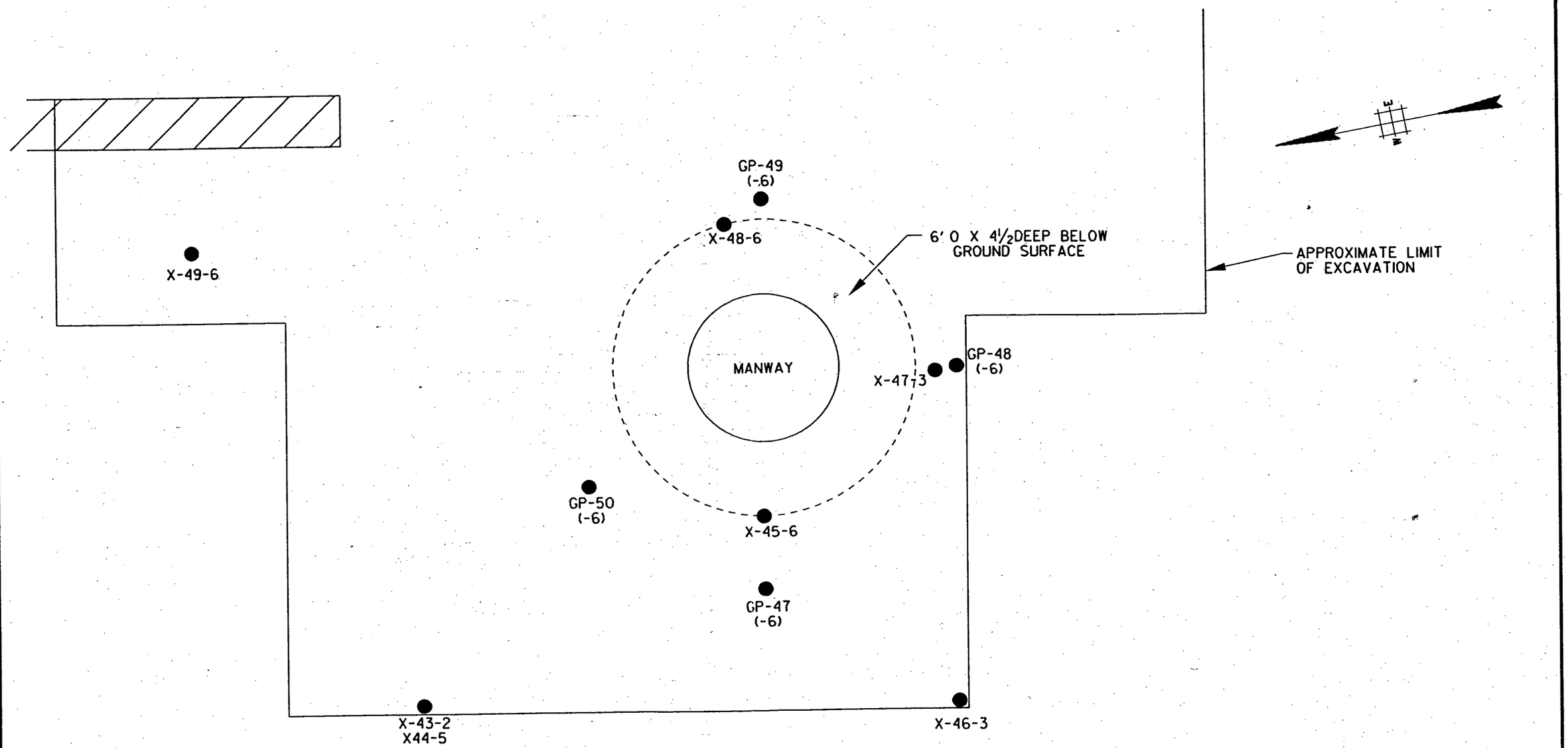
ATTACHMENT K

Sample GP47S2 Delineation of PCBs

10a



FLORASYNTH, INC.	SITE INVESTIGATION/REMEDIAL INVESTIGATION

ATTACHMENT K
SPILL CONTAINMENT SUMP DETAIL
NATURAL PRODUCTS AREA, SOIL BORING LOCATIONS

Baker Environmental, Inc.

307 College Road East
Princeton, NJ 08540
(609) 734-7900

SCALE:	DATE:	SO. NO.	FILE NAME:
1"=2'	FEB. 17, 2000	22680-000-0000-00005	F:\ SMI\TETERBOR\ATTACHMENT-K.DGN

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ATTACHMENT L

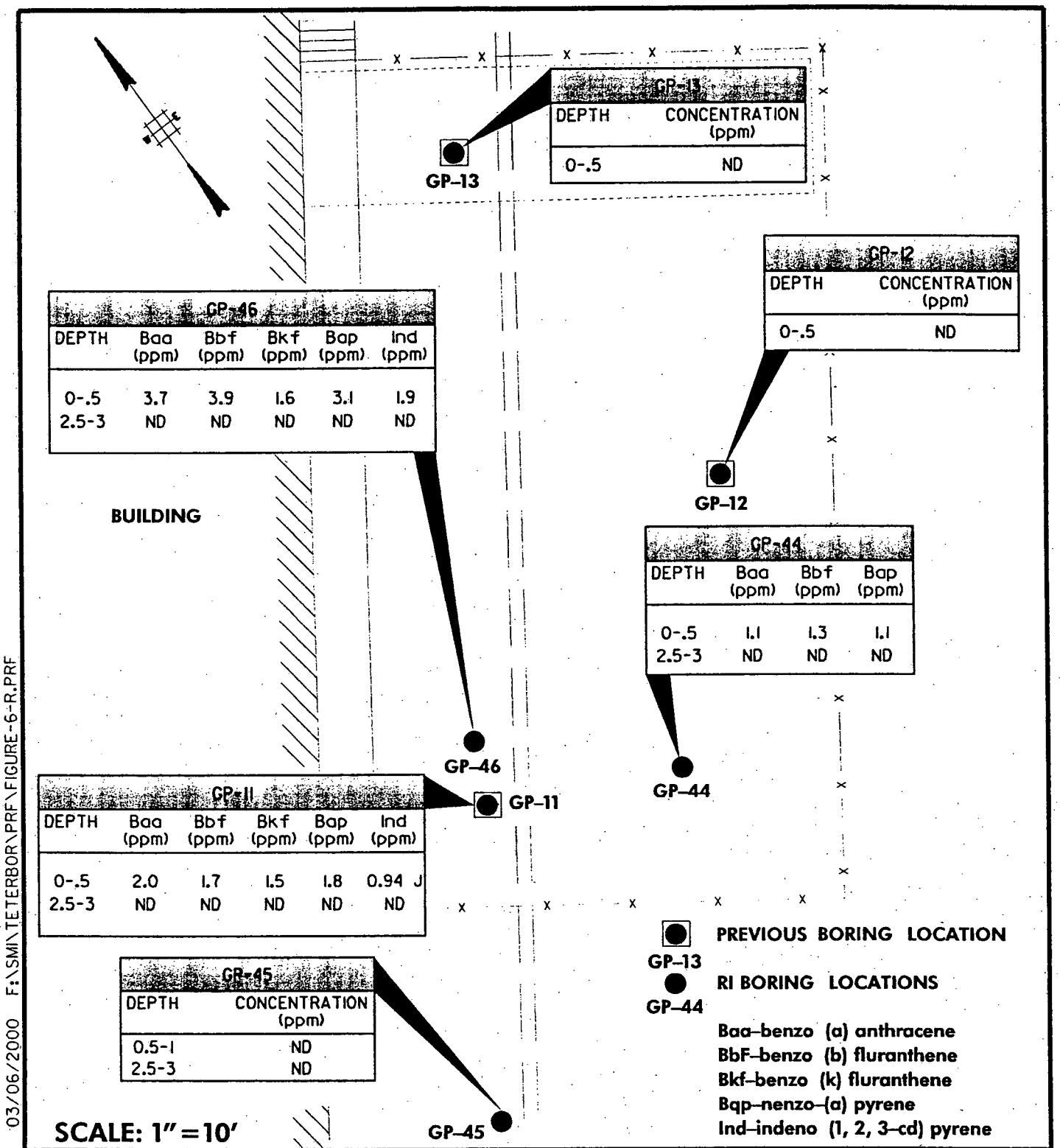
Revised Table 2

Table 2 REVISED
Summary of Compounds Detected in Soil - AOC D Storage Pad
June 13-14, 1995
Florasynth Inc.
Teterboro, New Jersey

All results reported in ppm (mg/kg).

Sample ID	GP-11	GP-11	GP-12	GP-12	GP-13	GP-13	FB-01	FB-02	TB-02
Lab ID	12023-013	12023-014	12023-015	12023-016	12023-017	12023-018	12023-009	12023-025	12023-026
Sample Date	6/14/95	6/14/95	6/14/95	6/14/95	6/14/95	6/14/95	6/13/95	6/14/95	6/14/95
Sample Depth	0.0-0.5'	1.5-2.0'	0.0-0.5'	1.5-2.0'	0.0-0.5'	1.5-2.0'	-	-	-
Volatile Organics									
Acetone	NA	1.5	NA	0.14	NA	0.17	NA	ND/0.100	ND/0.100
2-Butanone	NA	0.07	NA	ND/0.100	NA	ND/0.100	NA	ND/0.100	ND/0.100
Toluene	NA	0.0066	NA	ND/0.005	NA	ND/0.005	NA	ND/0.005	ND/0.005
Alcohols									
Methanol	NA	ND/5	NA	ND/5	NA	ND/5	NA	ND/5	ND/5
Ethanol	NA	ND/5	NA	ND/5	NA	ND/5	NA	ND/5	ND/5
Base Neutrals									
Acenaphthene	0.130J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Phenanthrene	1.60	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Anthracene	0.470J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Carbazole	0.130J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Fluoranthene	3.20	NA	ND/0.440	NA	0.061J	NA	NA	ND/0.010	NA
Pyrene	3.90	NA	ND/0.440	NA	0.075J	NA	NA	ND/0.010	NA
Butyl benzyl phthalate	ND/1.2	NA	ND/0.440	NA	0.043J	NA	NA	ND/0.010	NA
Benzo(a)anthracene	2.00	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Chrysene	2.40	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Bis(2-ethylhexyl)phthalate	0.180J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Benzo(b)fluoranthene	1.70	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Benzo(k)fluoranthene	1.50	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Benzo(a)pyrene	1.80	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Dibenz(a,h)anthracene	0.500J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Indeno(1,2,3,-cd)pyrene	0.940J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA
Benzo(g,h,i)perylene	0.760J	NA	ND/0.440	NA	ND/0.410	NA	NA	ND/0.010	NA

ND/10	Not detected. Concentration reported as less than method detection limit.
NA	Not analyzed.
TRPH	Total Recoverable Petroleum Hydrocarbons
CaPAHs	Carcinogenic Polyaromatic Hydrocarbons
J	Indicates an estimated value below the minimum detection limit.



F:\SMI\TETERBOR\FIGURE 6-R.DGN 03/06/2000 F:\SMI\TETERBOR\PRF\FIGURE-6-R.PRF

Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 6 REVISED

AREA OF CONCERN #11
EXTERIOR STORAGE AREA
ADDITIONAL SAMPLING LOCATIONS

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

Baker

Baker Environmental, Inc.

ATTACHMENT M

AOC #17 Remedial Action Summary (Bound Separately)

Summary of K&S Project Report
Revised Figures
Laboratory Data Deliverables

Volume I of II

Baker Environmental, Inc.
March 6, 2000

ISRA Case No. 95108

SUMMARY OF K&S ENVIRONMENTAL, INC. REPORT ON REMEDIAL ACTIVITIES IN A0C #17

The excavation contractor performing construction (not associated with the ISRA case), at the site, Van Peenan Excavating, contracted K&S Environmental, Inc. to perform soil borings in an area of the site to confirm the absence of contamination prior to excavation activities.

Eight soil borings were initially drilled (see Revised Figure 1 for locations and depths). Initial analytical parameters were TPHC, ethanol and t-butanol. These parameters were chosen by K&S based on their limited understanding of the site, information that an alcohol tank had recently been removed from the area, and observation of what appeared to be petroleum product.

K&S identified two areas of potential contamination, identified as F3 (TPHC level of 1980 ppm) and F5 (TPHC level of 47,900 ppm). K&S recommended that soils be excavated from each of these areas and stockpiled separately from other excavated material. K&S used visual observations, a RAE Systems PID, and laboratory analysis to segregate excavated soils.

Approximately 200 cubic yards of contaminated soil was removed from the F3 area. The excavation in this area measured approximately 40 feet wide by 40 feet long and five feet deep. The first three feet consisted of coarse sandy loam and fill. The interval from three to five feet bgs was described by K&S as gray/brown clay. Groundwater was not encountered.

Ten post-excavation samples were collected (see revised Figure 2). Since, at this time, the contamination was believed to be petroleum products, the post-excavation samples were analyzed for TPHC. Samples with the highest TPHC values were to be analyzed for VO+10. The sample with the highest TPHC level (PE-8, 1510 ppm) was analyzed for VO+10. All samples were later analyzed for BN+15, when K&S became aware that contamination in this area might not be solely attributable to petroleum products.

No targeted VO compounds were detected above the RDCSCC in sample PE-8. Total volatile organics were well below the 1,000 ppm maximum at a level of 0.037 ppm. The only samples exhibiting detectable levels of targeted BN were PE-7 and PE-8. No compounds exceeded the RDCSCC in sample PE-7. Total base neutrals in sample PE-7 were 4.442 ppm. In sample PE-8, benzo(a)anthracene at 1.2 ppm exceeded the RDCSCC of 0.9 ppm; benzo (a)pyrene at 0.670 ppm exceeded the RDCSCC of 0.66 ppm. Total base neutrals in sample PE-8 were 18.95 ppm.

The area near F5 was then excavated. A layer of what appeared to be free product was observed in the two to three feet bgs interval. The material was described by K&S as a dark black oily liquid with a sweet perfume odor. PID readings were over 100,000 ppm. As the excavation progressed, contamination was observed to migrate along the gravel base of the storm sewer line. The NJDEP was notified of the discharge and case #97-7-10-1844-23 was issued. Excavation continued in a direction away from the building. Approximately 700 cubic yards of contaminated soil was removed. The excavation (see Revised Figure 3) measured 140 feet wide by 80 feet long by five feet deep. Additional contamination was visually observed beneath the pipe but could not be accessed until the pipe was relocated. Therefore, post-excavation samples PE-1A through PE-10A were collected from the excavation (initial removal of soil from F5). Groundwater was not encountered during excavation.

TPHC results for the post-excavation samples ranged from ND to 118 ppm. No VO+10 analysis was performed. All samples were also analyzed for BN+15, with the exception of PE-2A and PE-6A. No samples exhibited levels of targeted BN above the RDCSCC. Total organics were less than the 10,000 ppm maximum for each sample.

The area adjacent to the building was excavated following relocation of the storm sewer line. Approximately 200 cubic yards of soil was removed from the 60 feet wide by 20 feet long by five feet deep excavation (see Revised Figure 4). Field screening and visual observation indicated remaining contamination was present at the excavation wall beneath the building. Potential compromise of the buildings structural integrity prohibited further excavation.

Soils adjacent to the building were similar to those observed near F3 and F5. Groundwater was not encountered during excavation.

Twelve post-excavation samples were collected from this area. All samples were analyzed for TPHC, VO+10, and BN+15, with the exception of PE-3B, which was not analyzed for VO+10. In sample PE-5B, 1,1,2,2,-Tetrachloroethane was detected at 11ppm, exceeding the IGWSCC of 1 ppm; diethylphthalate was detected at 470 ppm, exceeding the IGWSCC of 50 ppm.

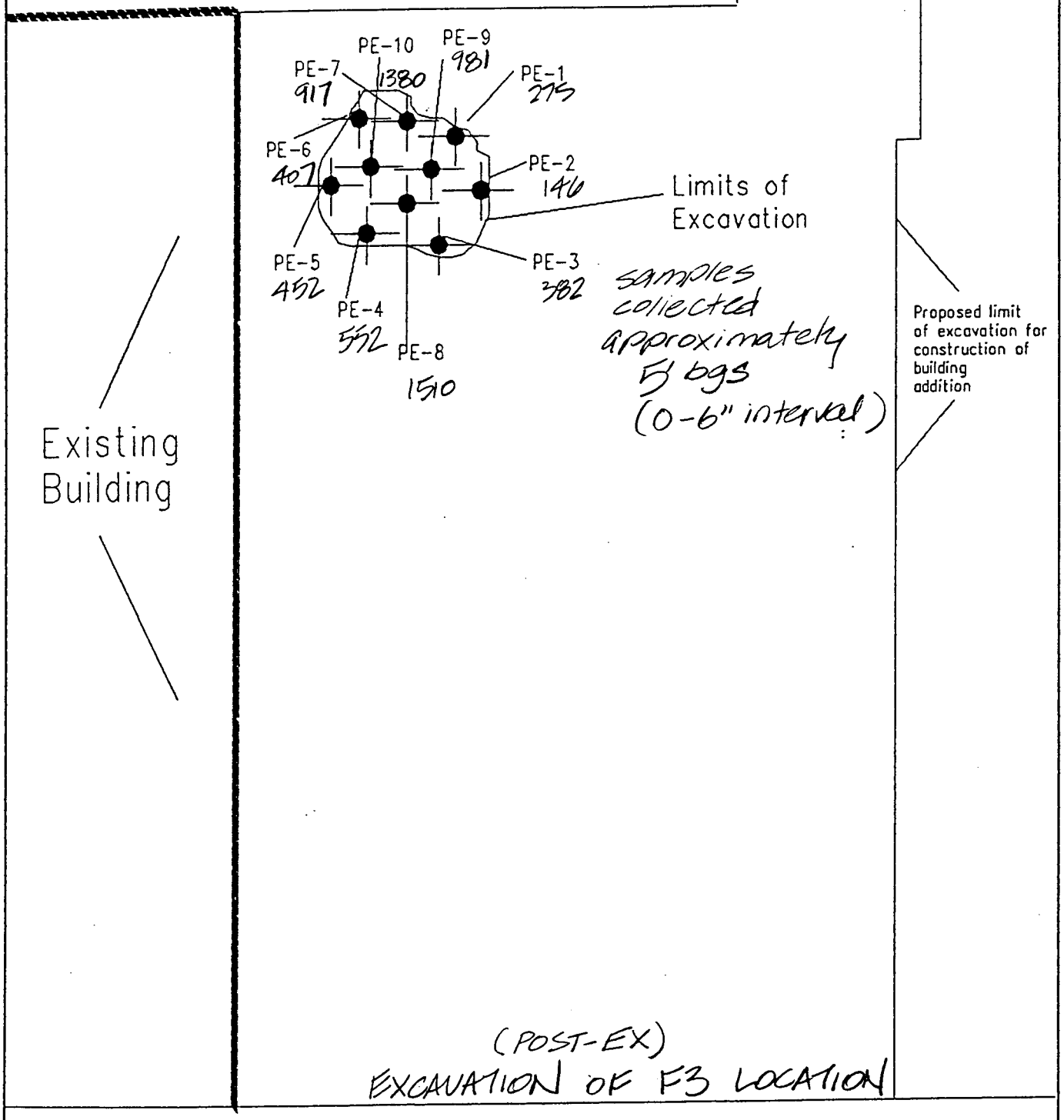
During excavation adjacent to the building, a series of four pipes were found exiting the building. The location of these pipes is shown on revised Figure 7. During excavation activities, a discharge was observed from one of the pipes. It was discovered that the discharge consisted of washwater from the Pot Wash Room. The washwater combined with standing stormwater in the excavation. The excavation was pumped to a storage tank on-site where stormwater was collected during construction activities.

All pot washing operations were ceased and plant practices modified to cease the discharge. A sample of stormwater/washwater was collected from within the excavation, a sample of the storage tank contents was collected and analyzed and additional soil samples were collected and analyzed beneath the pipe where the discharge occurred (see sample locations A and B on Revised Figures 4 and 7). The contamination within AOC #17 is believed to originate from the pot wash room. Discharges would include water, detergents, and residual flavors and fragrances. This would explain the black oily liquid with the perfume odor and sheen observed during excavation.

The results of analysis for soil samples A and B revealed levels of diethylphthalate in samples B-1 and B-2 of 91 ppm and 120 ppm respectively, exceeding the IGWSCC of 50 ppm. The RDCSCC and NRDCSCC of 10,000 ppm were not exceeded.

From the AOC #17 area, a significant amount of soil, 5520 tons, was excavated, characterized and transported off-site for disposal. All material was characterized as non-hazardous.

The discharge from the pot wash room has ceased; accessible contamination has been removed; the existing building overlying the area acts as an engineering control, preventing migration of contaminants; a clay layer at approximately five feet below ground surface will minimize infiltration of remaining contaminants; no groundwater was observed in the AOC#17; no potable supply wells exist in the vicinity of the site. Therefore, no exposure pathway exists and a Deed Notice for AOC #17 will be protective of human health and the environment.



= Soil Sample

Revised Figure 2

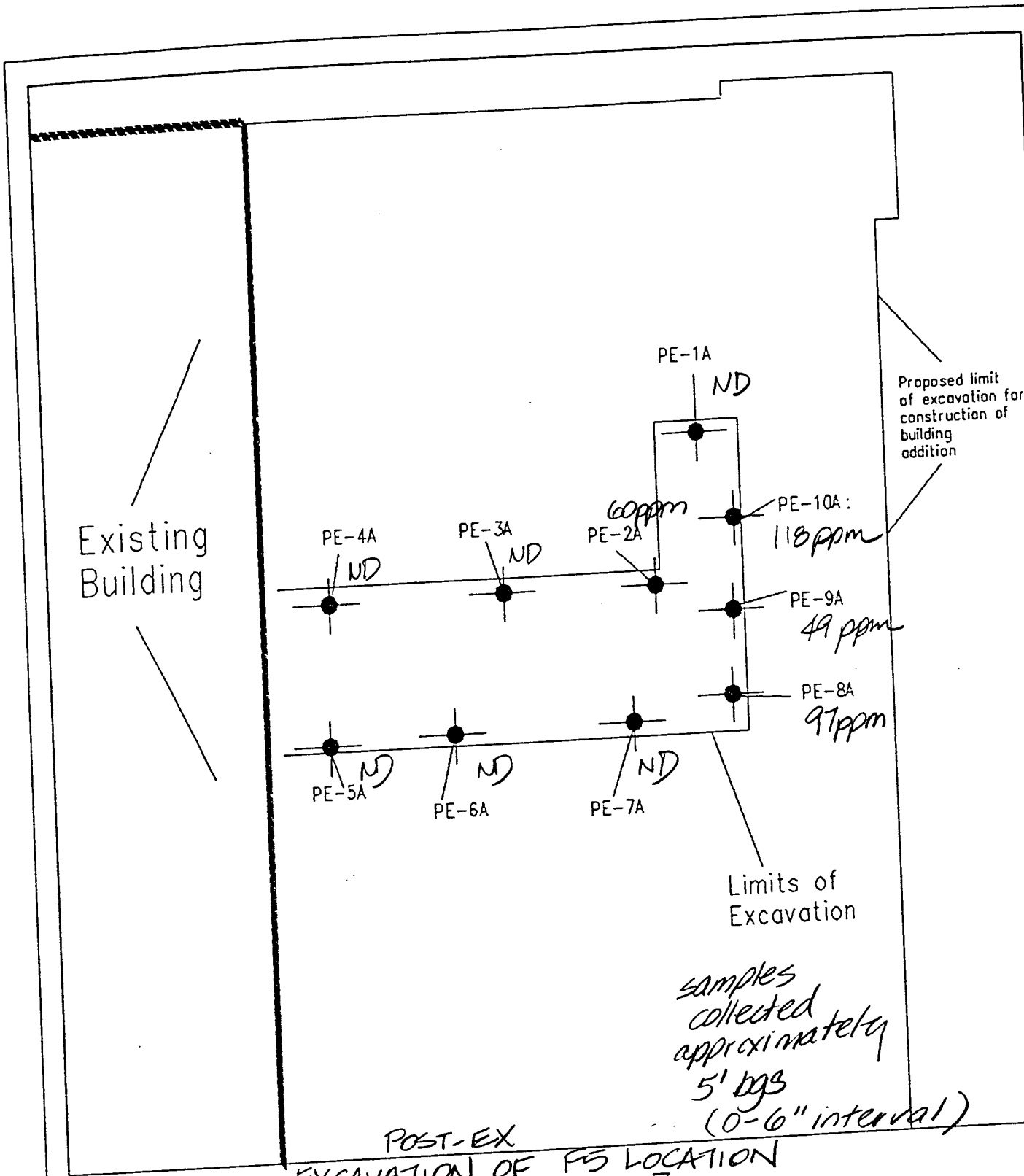
Soil Sample Location Plot (7/10/97)

H & R Florasynth

Teterboro, NJ

Scale 1'=40''

K & S Environmental, Inc.
Morristown, NJ



POST-EX
EXCAVATION OF F5 LOCATION

= Soil Sample

Revised Figure 3

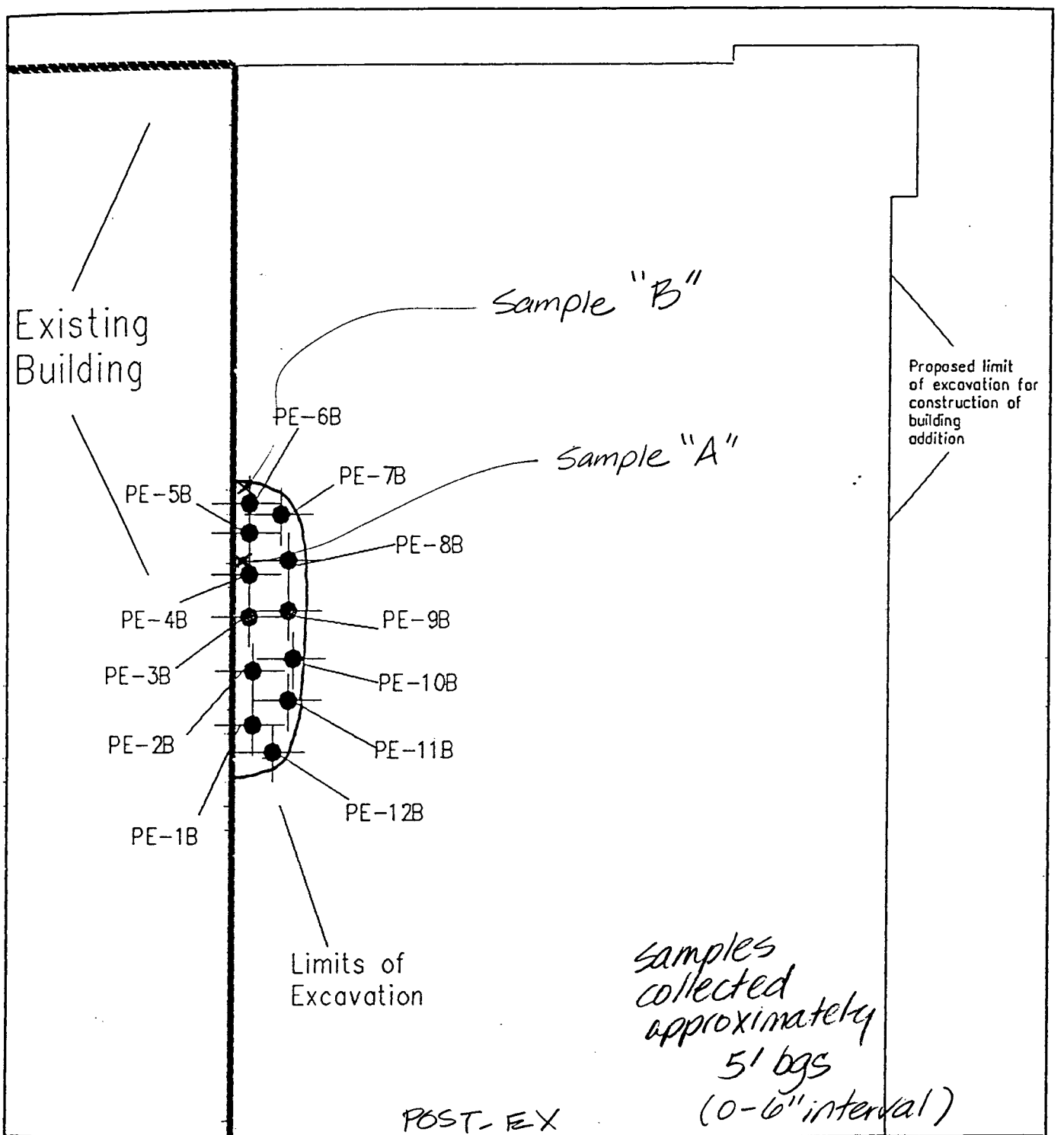
Soil Sample Location Plot (7/14/97)

H & R Florasynth

Teterboro, NJ

K & S Environmental, In
Morristown, NJ

Scale 1'=40''



= Soil Sample

Revised Figure 4

Soil Sample Location Plot (7/16/97)

H & R Florasynth

Teterboro, NJ

Scale 1'=40''

K & S Environmental, Inc.
Morristown, NJ

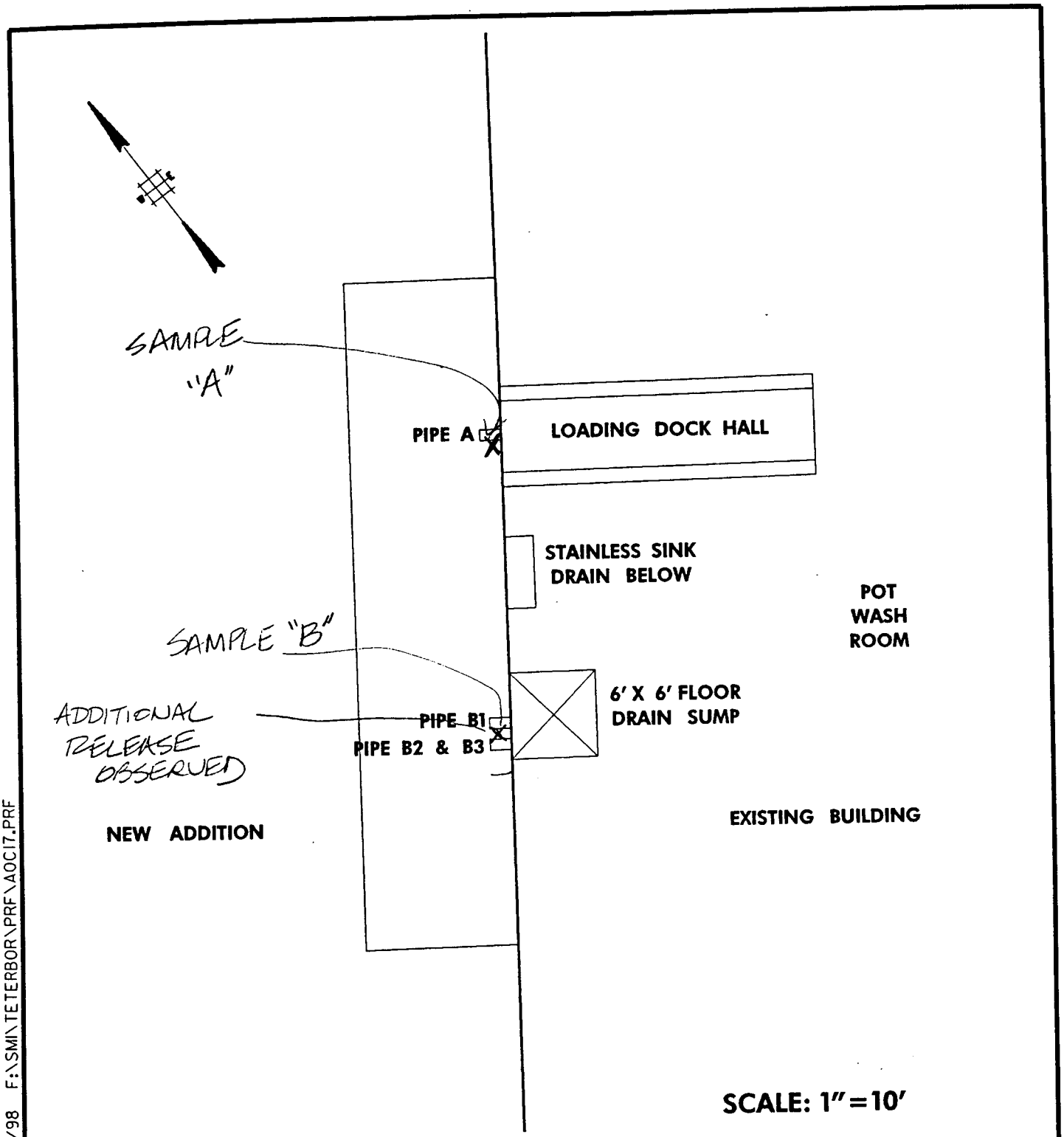


FIGURE 7 REVISED

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BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

AREA OF CONCERN #17
POT WASH AREA
RA POST EXCAVATION
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

F:\SMI\TETERBOR\AOC17.DGN 11/28/98 F:\SMI\TETERBOR\PRF\AOC17.PRF

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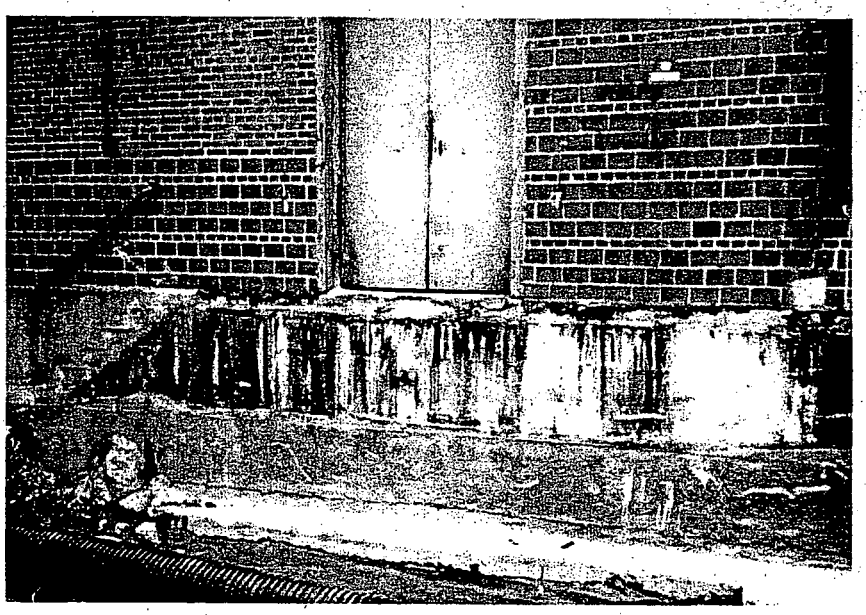
Baker Environmental, Inc.

ATTACHMENT N

AOC #17 Color Photographs

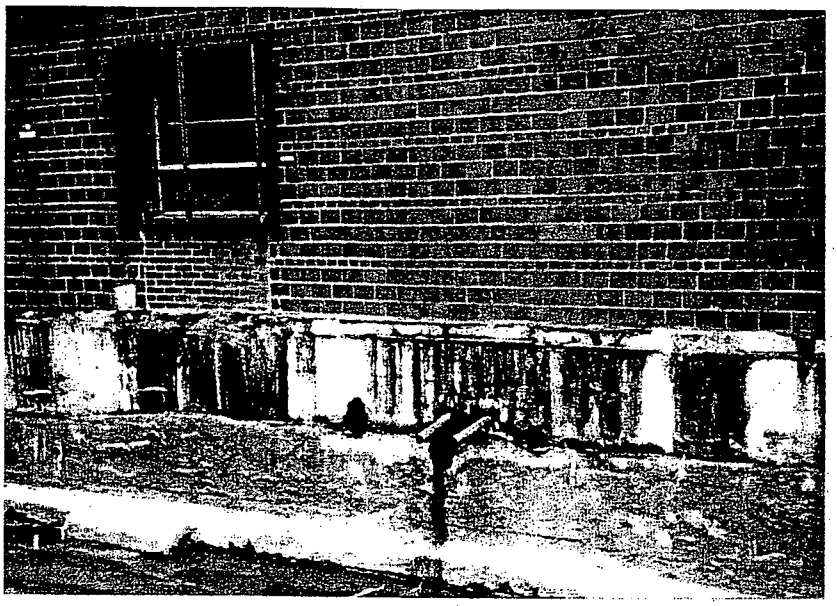
Photograph 1

Oblique view of the western wall of the existing facility showing the location of the former loading dock area. R. Fenz, 8/1/97, 13:10.



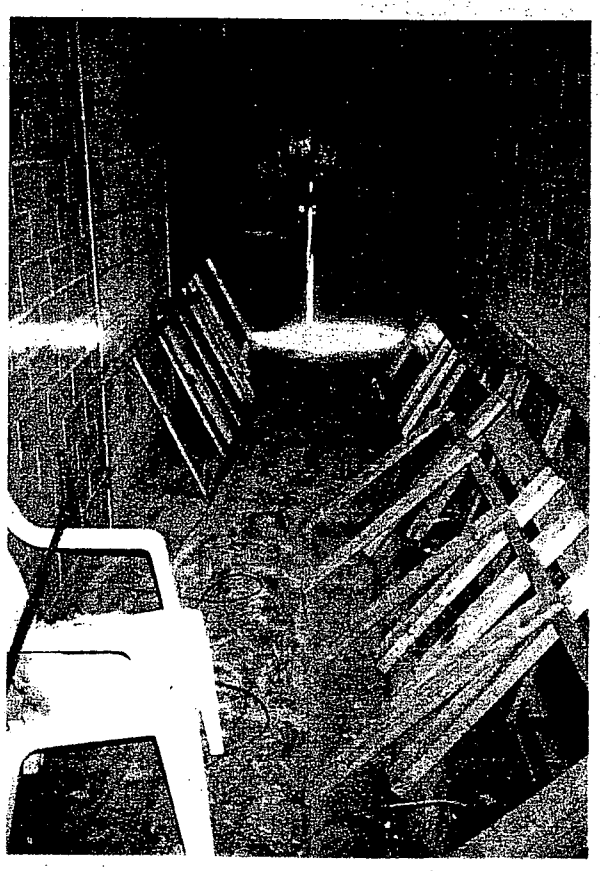
Photograph 2

View of Pipe A below the double doors to the former loading dock. R. Fenz, 8/1/97, 13:11.



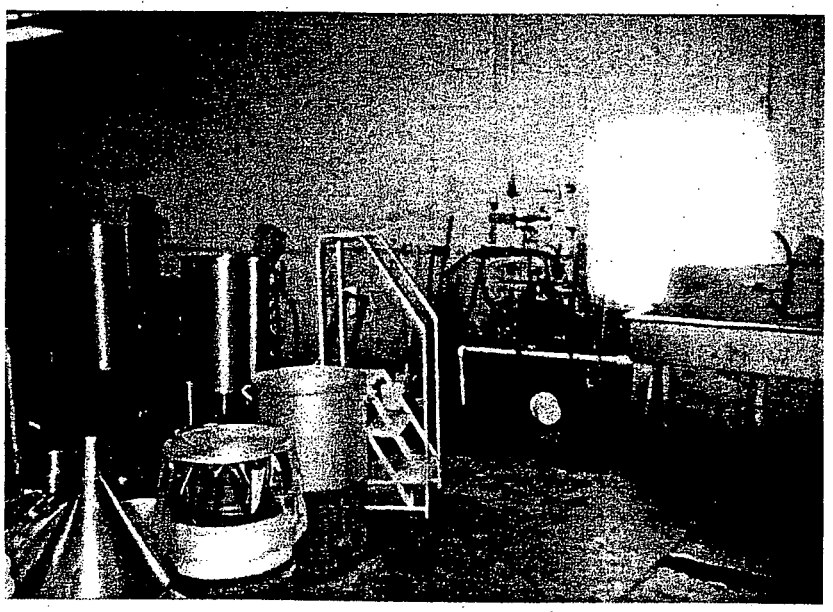
Photograph 3

View of Pipes B1, B2, B3 and wall penetrations. R. Fenz, 8/1/97, 13:13.



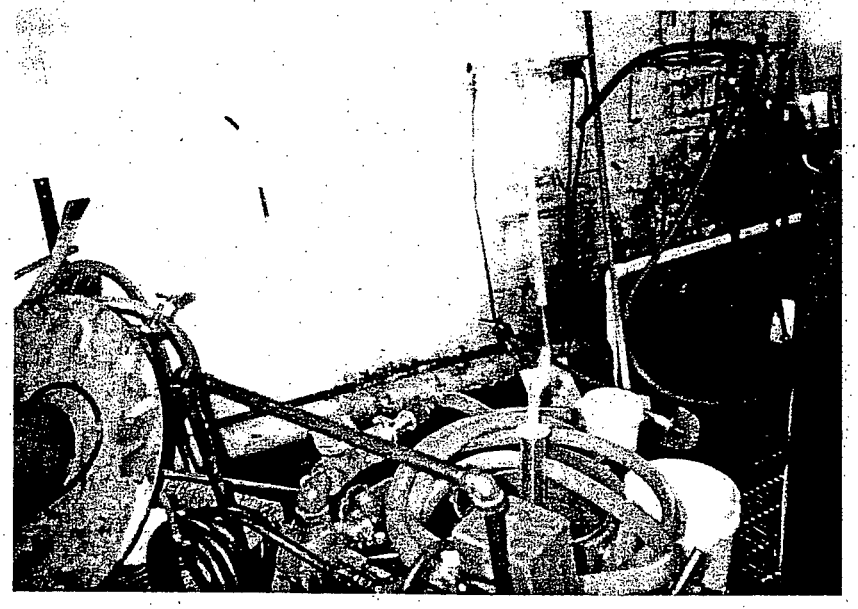
Photograph 4

Building interior. Loading dock hallway above pipe A. R. Fenz, 8/1/97, 13:25.



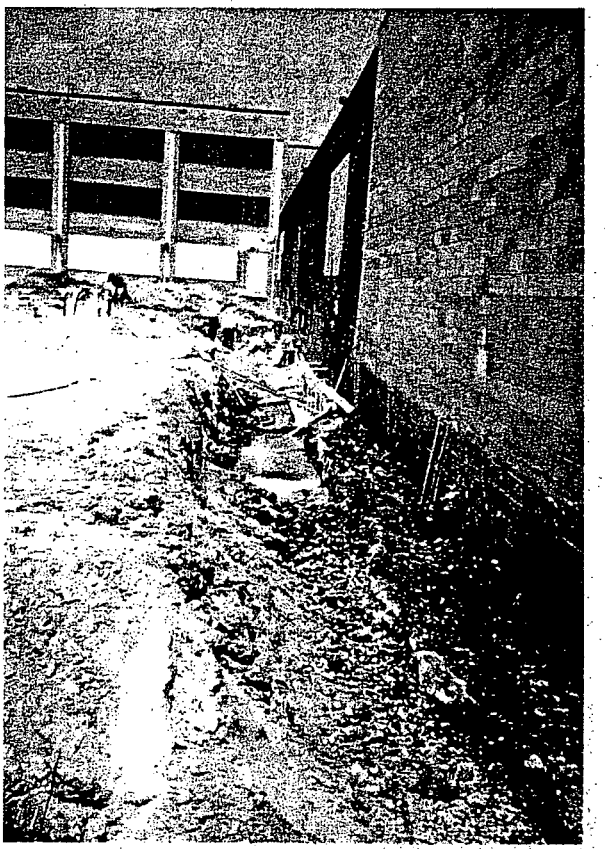
Photograph 5

Building interior. Pot scrubbing room. General area above Pipes B1, B2, B3 and wall penetrations. R. Fenz, 8/1/97, 13:27.



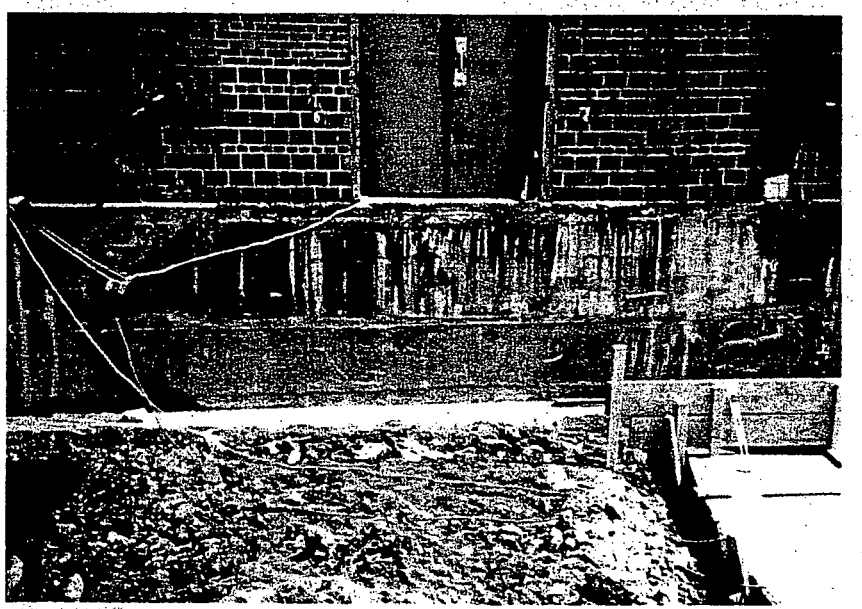
Photograph 6

Building interior. Pot scrubbing room. General area above Pipes B1, B2, B3 and wall penetrations. R. Fenz, 8/1/97, 13:27.



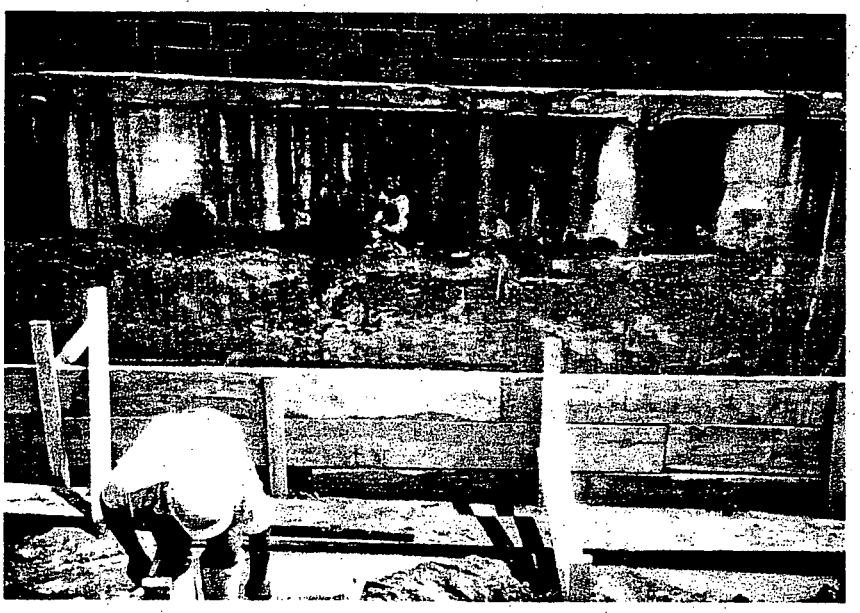
Photograph 7

Looking North along western wall. Footing construction in progress. Ponded water in excavation. R. Fenz, 8/11/97, 14:26.



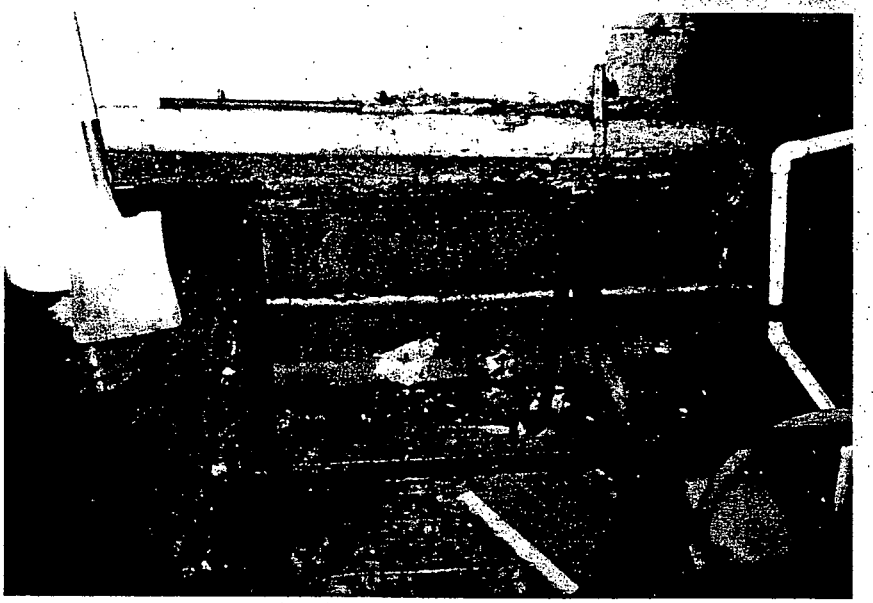
Photograph 8

View of Pipe A location below double doors to former loading dock. Pipe A cut flush with existing wall. R. Fenz, 8/11/97, 14:29.



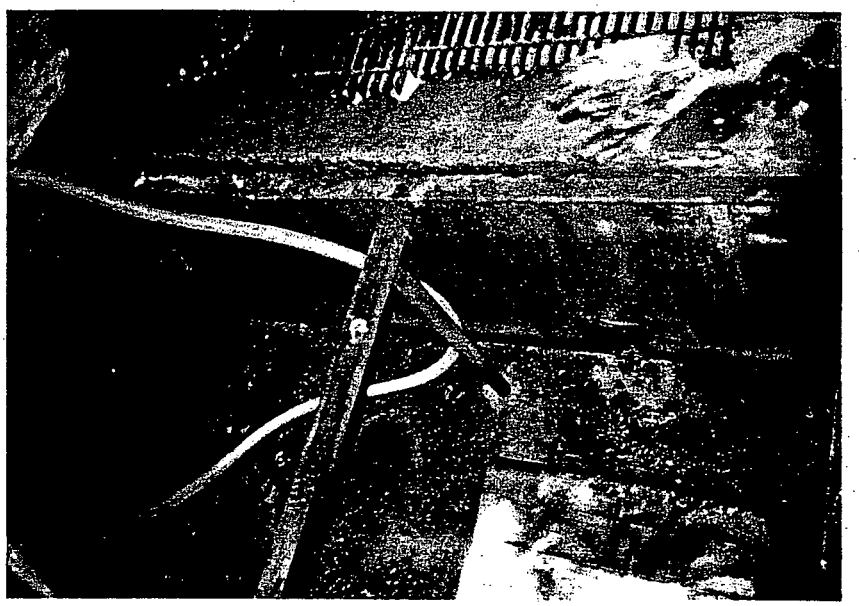
Photograph 9

View of Pipes B1, B2, B3 and wall penetrations. Pipes removed from wall. R. Fenz, 8/11/97, 14:28.



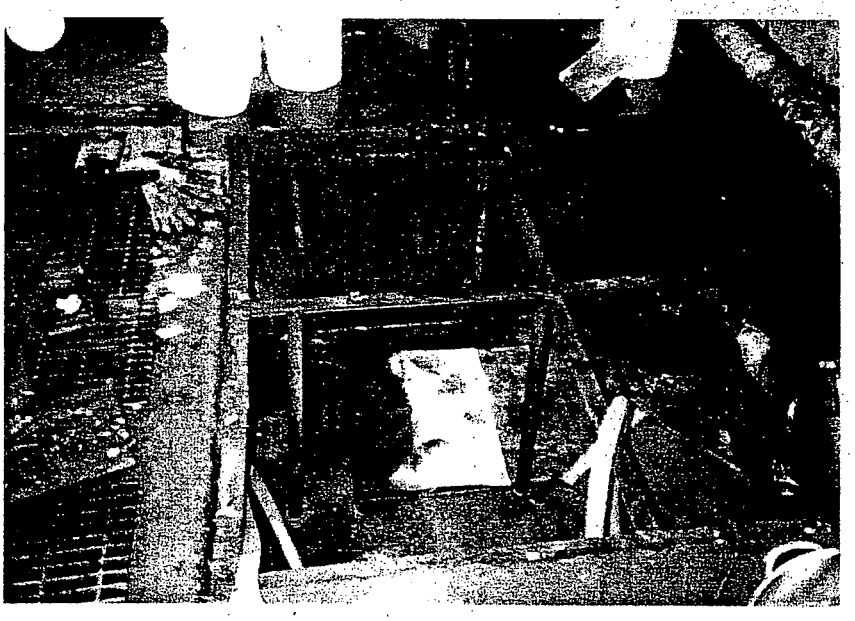
Photograph 10

Building interior. Pot scrubbing room pit. West side of pit. Holes in the wall are former locations of B1 (right) and B2, B3 (left) pipes. Pipe inverts were approximately 3 inches above the concrete pit floor. R. Fenz, 8/11/97, 14:48.



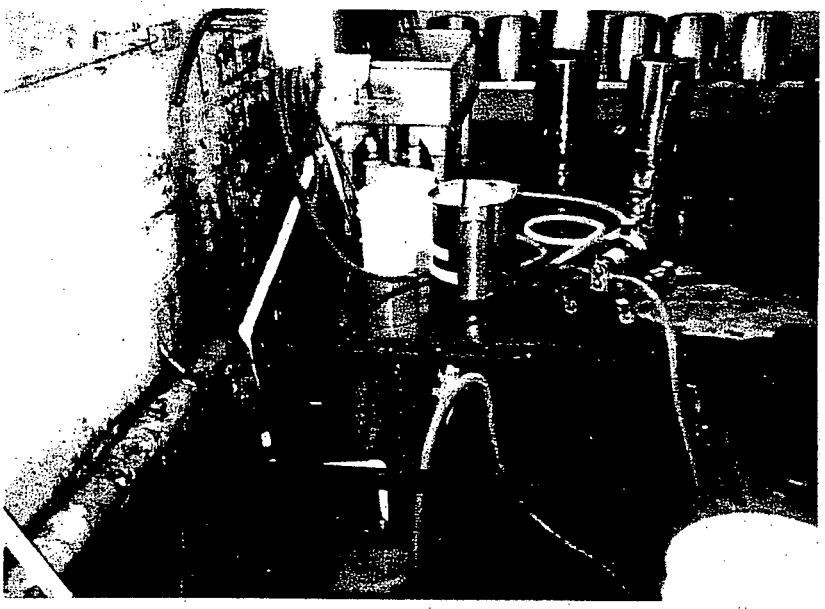
Photograph 11

Building interior. Pot scrubbing room pit. East side of pit. Pipe in the wall is 6 inch diameter drain line for pit. Pipe invert approximately 7 inches above concrete pit floor. R. Fenz, 8/11/97, 14:51.



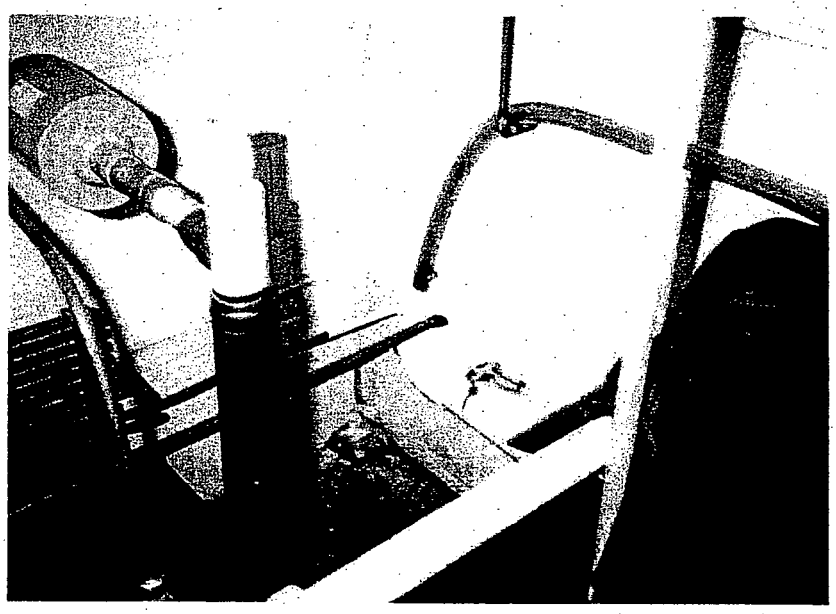
Photograph 12

Building interior. Pot scrubbing room pit. South side of pit. No penetrations in pit wall. R. Fenz, 8/11/97, 14:55.



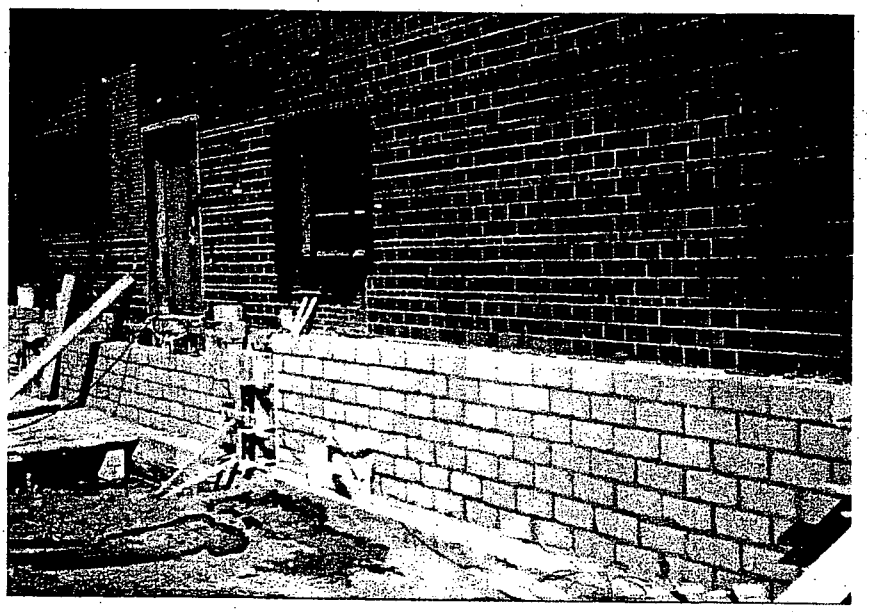
Photograph 13

Building interior. Pot scrubbing room pit. North side of pit. No penetrations in pit wall. Pump and lines were used to drain pit. R. Fenz, 8/11/97, 14:52.



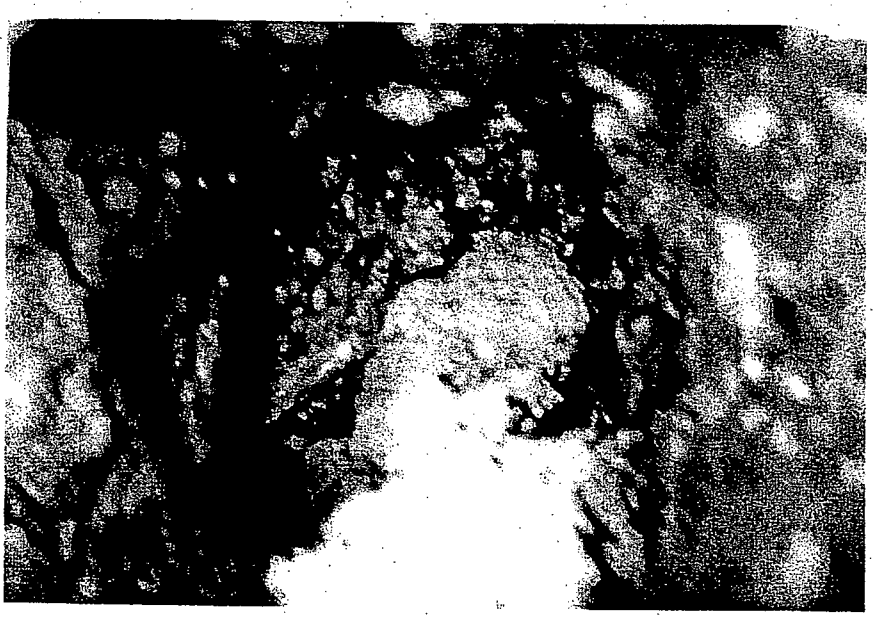
Photograph 14

Building interior. Southwest corner of pot scrubbing room. 6 inch diameter PVC drain pipe accepting condensate from compressors. R. Fenz, 8/11/97, 14:53.



Photograph 15

Building exterior. View of west wall at former Pipe A and B locations Pipe penetrations have been plugged with mortar and block wall has been constructed over pipe areas. R. Fenz, 8/14/97, 16:12.



Photograph 16

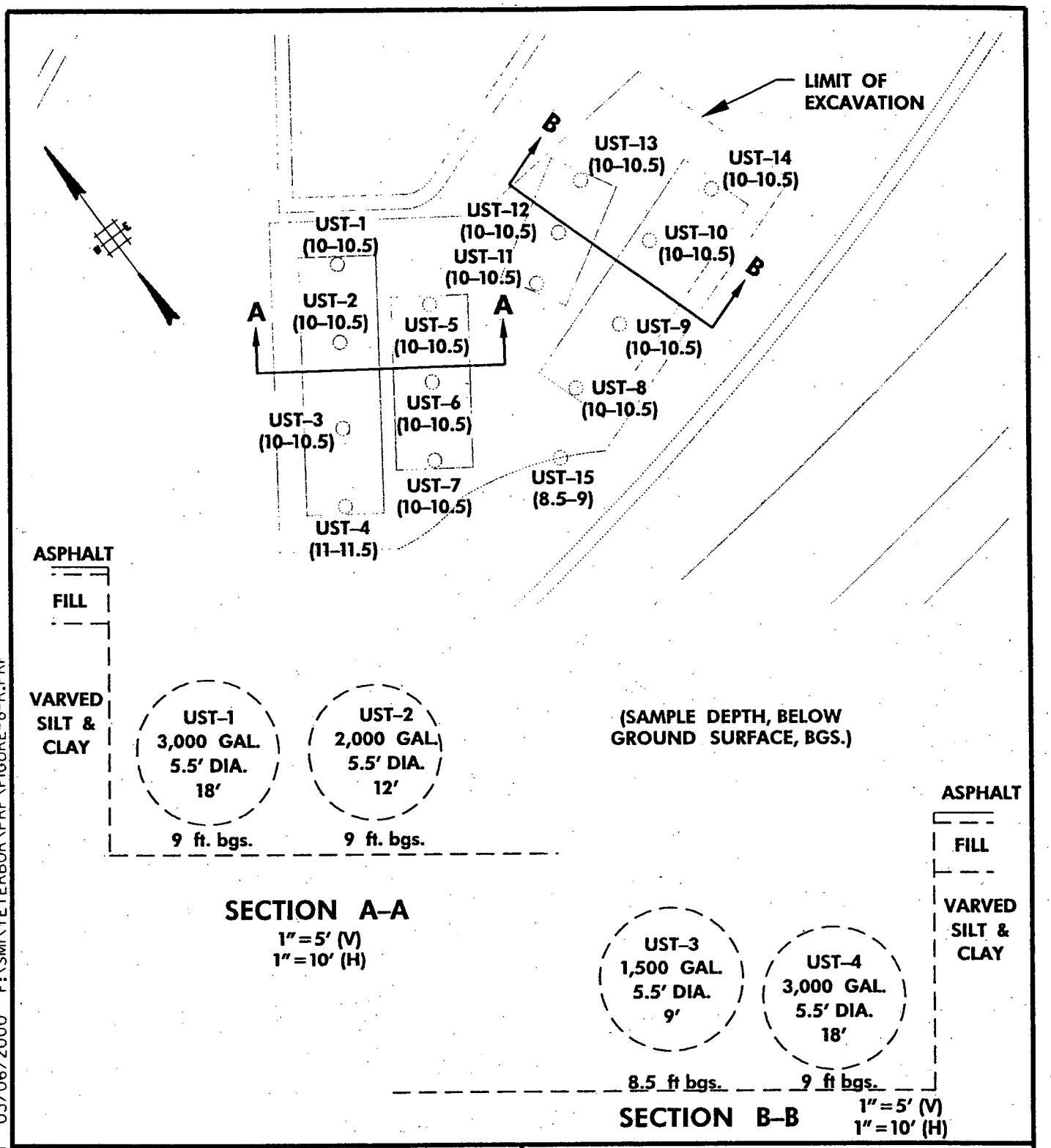
Building interior. View within former Pipe B2 and B3 penetration. Void has been plugged with mortar from the exterior. R. Fenz, 8/14/97, 16:14.

Baker

Baker Environmental, Inc.

ATTACHMENT O

Revised Figure 8



F:\SMI\TETERBOR\FIGURE 8-R.DGN 03/06/2000 F:\SMI\TETERBOR\PRF\FIGURE-8-R.PRF

Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 8 REVISED

AREA OF CONCERN #18
FORMER MOTOR FUEL
UNDERGROUND STORAGE TANKS

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

Baker

Baker Environmental, Inc.

ATTACHMENT P

AOC #16 Documentation - Boring Logs

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-1 Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	11.5 feet

Drilling Contractor/Driller: Paul Olewnicki	Sampling Method: 2" dia. 4ft spoon
Drilling Equipment: Mule Geoprobe	Drilling Method: 2" dia. spoon

Memo: The soil boring was located near the butler room. First six inches of the soil boring consisted of concrete.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Gray Silty CLAY, little f-m gravel, oily sheen, strong oil odor, wet.			
2				Soil interval 2.5' to 3.0' was sampled for TPH & PAH.
	0.5' of Brown/Pale Silty CLAY, little silty f sand, moist. In nose of spoon - Micacious rock (Schist), little f sand, dry. Gray Silty CLAY, little organic rich material, oily sheen, strong oil odor, wet.			Perched water zone.
4	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
				Soil Interval 5.0' to 5.5' was sampled for TPH & PAH.
6	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
8	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
10	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
	End of boring at 11.5' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-2
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located near the butler room. First six inches of the soil boring consisted of concrete. GP-2 is 1'6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
2	Brown Silty CLAY, some organic fiberous material, trace f sand, dry.			Soil interval 2.5' to 3.0' was sampled for TPH & PAH.
	Pale/brown Silty CLAY, stiff, low plasticity, dry.			
4	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
6	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
8	End of boring at 8.0' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-3
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located near the butter room. The first six inches of the soil boring consisted of concrete. GP-3 is equal in elevation to GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Gray Organic Fiberous Material, some silty clay, oily sheen, strong oily odor, moist.			
2				Soil interval 2.5' to 3.0' was sampled for TPH & PAH.
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
4	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
6	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
8	End of boring at 8.0' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-4
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located near the butler room. The first six inches of the soil boring consisted of concrete. There was an oily sheen and odor to the end of the concrete core. GP-4 is equal in elevation to GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 3' b.g.			0' is ground surface.
2				2
	Gray Silty CLAY, little f-m gravel, oily sheen, strong oily odor, wet.			Soil interval 3.0' to 3.5' was sampled for TPH & PAH. Perched water zone.
4	Gray Silty CLAY, some organic fiberous material, little f-m gravel, slight oily sheen, slight oily odor, moist.			4
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
6	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			6
8	End of boring at 8' b.g.			8

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-5
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Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	5.0 feet

Drilling Contractor/Driller: Paul Olewnicki	Sampling Method: 2" dia. 4ft spoon
Drilling Equipment: Mule Geoprobe	Drilling Method: 2" dia. spoon

Memo: The soil boring was located near the butler room. The first six inches of the soil boring consisted of concrete. There was an oily sheen and odor to the end of the concrete core. GP-5 is equal in elevation to GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 2' b.g.			0' is ground surface.
2	Gray Silty CLAY, some organic fiberous material, little f-m gravel, oily sheen, strong oily odor, wet.			Perched water zone.
				Soil interval 3.0' to 3.5' was sampled for TPH & PAH.
4	Pale/brown Silty CLAY, some organic fiberous material, trace silty f sand, dry.			
	Spoon refusal at 5' b.g. End of boring at 5' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-6

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located in the lemon room. The first six inches of the soil boring consisted of concrete. GP-6 is 2'6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 2' b.g.			0' is ground surface.
2	Gray c-m GRAVEL, some f-m sand, trace silt, dry.			
4	Gray c-m GRAVEL, some f-m sand, trace silt, dry.			
	Black m-f SAND (cinders), some silty clay, trace fill (glass), oily sheen, strong oily odor, moist.			
6	Gray Silty CLAY, little organic fiberous material, slight oily sheen, slight oily odor, moist.			Soil interval 6.0' to 6.5' was sampled for TPH & PAH.
	Pale/brown Silty CLAY, stiff, low plasticity, dry.			
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-7 Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/13/95 - 6/13/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller: Paul Olewnicki	Sampling Method: 2" dia. 4ft spoon
Drilling Equipment: Mule Geoprobe	Drilling Method: 2" dia. spoon

Memo: The soil boring was located in the lemon room. The first six inches of the soil boring consisted of concrete. GP-7 is 2'6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1.5' b.g.			0' is ground surface.
2	Gray c-m GRAVEL, some f-m sand, trace silt, dry.			
	Black f-m SAND (cinders), some fill (glass, wood), slight oily sheen, slight oily odor, dry.			Soil interval 3.5' to 4.0' was sampled for TPH & PAH.
4	Gray Silty CLAY, little organic fiberous material, moist.			
	Pale/brown Silty CLAY, stiff, low plasticity, dry.			
6	Pale/brown Silty CLAY, stiff, low plasticity, dry.			
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-8
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	12.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located in the warehouse. The first six inches of the soil boring consisted of concrete. GP-8 is 2'6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 2' b.g.			0' is ground surface.
2	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
4	Light brown m-f SAND, little f-m gravel, trace silt, wet.			Perched water zone.
6	Black m-f SAND (cinders), some silty clay, slight oily sheen, slight oily odor, moist.			
	Gray Silty CLAY, some organic fiberous material, moist			Soil interval 7.0' to 7.5' was sampled for TPH & PAH.
8	Gray Silty CLAY, some organic fiberous material, moist.			
10	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
12	End of boring at 12' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-9
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	12.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located in the warehouse. The first six inches of the soil boring consisted of concrete. GP-9 is 2'6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 2' b.g.			0' is ground surface.
2	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
4	Light Brown m-f SAND, little f-m gravel, trace silt, moist.			Perched water zone.
6				
	Gray Silty CLAY, some m-f gravel, trace organic fiberous material, moist.			Soil interval 7.0' to 7.5' was sampled for TPH & PAH.
8	Gray Silty CLAY, some m-f gravel, trace organic fiberous material, moist.			
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
10				
12	End of boring at 12' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-10
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located near the lunchroom. The first six inches of the soil boring consisted of concrete. There was an oily sheen and odor to the end of the concrete core. GP-10 was equal in elevation to GP-1.

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Gray Silty CLAY, some organic rich material, strong oily sheen, strong oily odor, moist.			
2				Soil interval 2.5' to 3.0' was sampled for TPH & PAH.
4	Gray Silty CLAY, some organic rich material, strong oily sheen, strong oily odor, moist.			
	Gray Silty CLAY, little organic rich material, strong oily sheen, strong oily odor, moist.			
6	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-11
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	4.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnickl	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: Soil boring was located in the drum storage area.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Asphalt from 0' to 0.5' b.g.			0' is ground surface.
				Soil Interval 0.5' to 1.0' was sampled for BN+15.
	Black m-f SAND (cinders), some silt, moist.			
				Soil Interval 1.5' to 2.0' was sampled for VO+10 & alcohols.
2	Brown m-f SAND (cinders), some silt, moist.			2
	Gray Silty CLAY, little organic rich material, moist.			
4	End of boring at 4' b.g.			4

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-12
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	4.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: Soil boring was located in the drum storage area.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Asphalt from 0' to 0.5' b.g.			0' is ground surface.
				Soil Interval 0.5' to 1.0' was sampled for BN+15.
	Black Silty CLAY, some m-f SAND, trace silt, dry.			
				Soil Interval 1.5' to 2.0' was sampled for VO+10 & alcohols.
2	Gray Silty CLAY, some organic rich material, dry.			2
4	End of boring at 4' b.g.			4

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-13
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	4.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: Soil boring was located in the drum storage area.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Asphalt from 0' to 0.5' b.g.			0' is ground surface.
				Soil Interval 0.5' to 1.0' was sampled for BN+15.
	Black Silty CLAY, some m-f SAND, trace silt, dry.			
				Soil Interval 1.5' to 2.0' was sampled for VO+10 & alcohols.
2	Gray Silty CLAY, some organic rich material, dry.			2
4	End of boring at 4' b.g.			4

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-14
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: Soil boring was located in the boiler room storage area. The first six inches of the soil boring consisted of concrete. GP-14 was equal in elevation to GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
2	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
4	Gray Silty CLAY, some organic fiberous material, little f-m gravel, slight oily sheen, slight oily odor, moist.			
	Gray Silty CLAY, some organic fiberous material. little f-m gravel, slight oily sheen, slight oily odor, moist.			Soil Interval 5.0' to 5.5' was sampled for TPH & PAH.
6				
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			Soil interval 7.5' to 8.0' was sampled for TPH & PAH.
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-15
Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller:	Sampling Method:
Paul Olewnicki	2" dia. 4ft spoon
Drilling Equipment:	**Drilling Method:**
Mule Geoprobe	2" dia. spoon

Memo: The soil boring was located in the boiler room storage area. The first six inches of the soil boring consisted of concrete. There was an oily sheen and odor to the end of the concrete core. GP-15 was equal in elevation to GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	No spoon recovery from 0' to 1' b.g.			0' is ground surface.
	Black f-m SAND (cinders), some silt, strong odor, strong oily sheen, wet.			
2	Gray Silty CLAY, some organic fiberous material, little f-m gravel, slight oily sheen, slight oily odor, wet.			Perched water zone Soil Interval 2.5' to 3.0' was sampled for TPH & PAH.
4				
	Brown/pale Silty CLAY with pale orange Silty f SAND laminations (varved), little f sand, dry.			
6				
				Soil interval 7.5' to 8.0' was sampled for TPH & PAH.
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-16 Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
6/14/95 - 6/14/95	Michael Shorter / Warren, N.J.	OVM	8.0 feet

Drilling Contractor/Driller: Paul Olewnicki	Sampling Method: 2" dia. 4ft spoon
Drilling Equipment: Mule Geoprobe	Drilling Method: 2" dia. spoon

Memo: The soil boring was located next to the lemon room in the parking lot. GP-16 was 6" higher in elevation than GP-1.

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Grass and top soil			0' is ground surface.
	Gray c-m GRAVEL, some f-m sand, trace silt, dry.			
2	Gray Silty CLAY, little organic fiberous material, slight oily sheen, slight oily odor, moist.			
	Gray Silty CLAY, little organic fiberous material, slight oily sheen, slight oily odor, moist.			Soil Interval 3.0' to 3.5' was sampled for TPH & PAH.
4				
6	Pale/brown Silty CLAY, stiff, low plasticity, dry.			
				Soil interval 7.5' to 8.0' was sampled for TPH & PAH.
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-17 Page 1 of 1

Start/Finish Date: 10/19/95 - 10/19/95	Geologist/Office: Michael Shorter / Warren N.J.	Monitoring Device: OVM	T.D. Borehole: 8.0 feet
Drilling Contractor/Driller: / Zebra / P. Olewnicki		Sampling Method: 4', 2" dia. Acetate Liner	
Drilling Equipment: Geoprobe "G2"		Drilling Method: 4' Macrocore	
Memo:			

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	2.0' No recovery.			
2	Concrete			
	Gray SILT, some clay, moist			Interval 2.5-3.0' was sampled for TPH, PAH (hold).
	Black Silty CLAY, some f-sand, moist.			At 2.75' b.g., OVM = 3 ppm. At 3.25' b.g., OVM = 14 ppm.
	Gray Silty CLAY, little brown f-sand, slight oil odor and sheen.			At 3.75' b.g., OVM = 61 ppm.
4	0.5' No recovery.			
	Gray f-m GRAVEL, some clay, little silt, little f-sand, wet.			
	Gray f-m GRAVEL, some clay, little silt, little f-sand, wet.			At 5.25' b.g., OVM = 12 ppm.
6	Brown to pale Silty CLAY, with orange f-sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with orange f-sand, little silt, laminations (varved), wet.			At 7.0' b.g., OVM = 14 ppm. Interval 7.5-8.0' was sampled for TPH, PAH (hold).
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-18 Page 1 of 2

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
10/19/95 - 10/19/95	Michael Shorter / Warren N.J.	OVM	20.0 feet

Drilling Contractor/Driller: / Zebra / P. Olewnicki	Sampling Method: 4', 2" dia. Acetate Liner
Drilling Equipment: Goeprobe "G2"	Drilling Method: 4' Macrocore
Memo:	

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	1.0' No recovery.			No OVM hits at any depth in the borehole.
	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
2	Light brown m-f SAND, little f-m gravel, trace silt, moist.			
	Light gray Silty CLAY, some organic fibrous material, slight oil odor, moist.			Interval 2.5-3.0' was sampled for TPH, PAH (hold).
	Gray SILT, some f-sand, slight oil odor, moist.			
	Brown to pale Silty CLAY, with parallel orange sand, little silt, laminations (varved), slight oily odor, dry.			
4	Gray SILT, some f-sand, moist.			
	Gray SILT, some f-sand, moist.			
6	Gray SILT with some brown pale clay, dry.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), dry.			Interval 7.5-8.0' was sampled for TPH, PAH (hold).
8	Drive sampler to 10' b.g.			
10	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), dry.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), dry.			
12	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), moist.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), moist.			
14				

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-18

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), moist.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), moist.			
16	Gray SILT, little clay, wet.			
	Gray SILT, little clay, wet.			
18	Gray SILT, little clay, wet.			
	Gray SILT, little clay, wet.			
20	End of boring at 20' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-19 Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
10/19/95 - 10/19/95	Michael Shorter / Warren N.J.	OVM	8.0 feet

Drilling Contractor/Driller: / Zebra / P. Olewnicki	Sampling Method: 4', 2" dia. Acetate Liner
Drilling Equipment: Geoprobe "G2"	Drilling Method: 4' Macrocore

Memo:

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	2.0' No recovery.			
2	Black f-SAND, some f-gravel, strong oily odor and sheen, moist.			At 2.25' b.g., OVM = 94 ppm. Interval 2.5-3.0' was sampled for TPH, PAH (hold).
	Gray SILT, some clay, strong oily odor and sheen, moist.			At 2.75' b.g., OVM = 126 ppm.
	Gray SILT, some clay, some organic fibrous material, little f-sand, slight oily odor, moist.			At 3.75' b.g., OVM = 32 ppm.
4	1.0' No recovery.			At 4.50' b.g., OVM = 10 ppm.
	Gray SILT, some clay, some organic fibrous material, little f-sand, slight oily odor, moist.			
6	Brown to pale Silty CLAY with some pale orange sand, little silt, laminations (varved), dry. Brown to pale Silty CLAY with some pale orange sand, little silt, laminations (varved), dry.			
	Brown to pale Silty CLAY with some pale orange sand, little silt, laminations (varved), dry.			Interval 7.5-8.0' was sampled for TPH, PAH (hold).
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-20 Page 1 of 1

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
10/19/95 - 10/19/95	Michael Shorter / Warren N.J.	OVM	8.0 feet

Drilling Contractor/Driller: / Zebra / P. Olewnicki	Sampling Method: 4', 2" dia. Acetate Liner
Drilling Equipment: Geoprobe "G2"	Drilling Method: 4' Macrocore
Memo:	

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	1.0' No recovery.			No OVM hits at any depth in the borehole.
	Brown f-SAND, some f-gravel, little silt, dry.			
2	Brown f-SAND, some f-gravel, little silt, dry.			Interval 2.5-3.0' was sampled for TPH.
	Brown to pale Silty CLAY, stiff, moist			
4	Brown f-SAND, some f-gravel, little silt, moist.			
	Brown f-SAND, some f-gravel, little silt, moist.			
6	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-21 Page 1 of 1

Start/Finish Date: 10/19/95 - 10/19/95	Geologist/Office: Michael Shorter / Warren N.J.	Monitoring Device: OVM	T.D. Borehole: 8.0 feet
Drilling Contractor/Driller: / Zebra / P. Olewnicki		Sampling Method: 4', 2" dia. Acetate Liner	
Drilling Equipment: Goeprobe "G2"		Drilling Method: 4' Macrocore	
Memo:			

Location Sketch

N

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	2.0' No recovery.			No OVM hits at any depth in the borehole.
2	Black c-m GRAVEL, some f-m sand, little silt, trace fill (red brick), moist.			Interval 2.5-3.0' was sampled for TPH.
	Black c-m GRAVEL, some f-m sand, little silt, trace fill (red brick), moist.			
4	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
6	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
8	End of boring at 8' b.g.			

SOIL BORING LOG

McLaren Hart	Project: Florasynth Project Location: 300 North Street, Teterboro, NJ 10022 Project Number: 120802320001-002	Boring No: GP-22 Page 1 of 2

Start/Finish Date:	Geologist/Office:	Monitoring Device:	T.D. Borehole:
10/19/95 - 10/19/95	Michael Shorter / Warren N.J.	OVM	20.0 feet

Drilling Contractor/Driller: / Zebra / P. Olewnicki	Sampling Method: 4', 2" dia. Acetate Liner
Drilling Equipment: Geoprobe "G2"	Drilling Method: 4' Macrocore
Memo:	

N

Location Sketch

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	2.0' No recovery.			No OVM hits at any depth in the borehole.
2	Gray c-m GRAVEL, some f-sand, little silt, dry.			
	Gray c-m GRAVEL, some f-sand, little silt, dry.			
4	1.0' No recovery.			
	Gray c-m GRAVEL, some f-sand, little silt, dry.			
	Dark gray SILT, some f-sand, little f-gravel, dry.			
6	Dark gray SILT, some f-sand, little f-gravel, dry.			Interval 6.0-6.5' was sampled for TPH.
	Dark gray SILT, some f-sand, little f-gravel, dry.			
8	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
10	Drive sampler to 14' b.g.			
12				
14				

SOIL BORING LOG

McLaren Hart

Project: Florasynth
Project Location: 300 North Street, Teterboro, NJ 10022
Project Number: 120802320001-002

Boring No: GP-22

Depth Below Surface (ft.)	Burmister System Soil Description Color, Texture, Moisture, Etc.	Graphic Log	Sample Interval	Remarks
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
16	Drive sampler to 18' b.g.			
18	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Brown to pale Silty CLAY, with some pale orange sand, little silt, laminations (varved), wet.			
	Gray SILT, some clay, wet.			
20	End of boring at 20' b.g.			

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 23

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Hall off Butter Room
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not Encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
			F	
23 A	2.5 3.0	Mottled brown silty clay (CL)		Moist 4-6 ppm
			C	
23 B	14.0 14.5	Red brown varved silty clay and clayey silt (CL-ML)		0 ppm
23 C	17.5 18.0	Red brown varved silt and clay (CL-ML)		0 ppm
		CD= 18'		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 24

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Hall off Butter Room
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/1997	13:51	18		6"		Perched in fill

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
24 A	0.5 1.0	Black oil stained silty clay (CL)	F	Wet 5-7 ppm
24 B	2.0 4.0	Gray silty clay (CL)		Moist 0 ppm
			C	
		No recovery 14-16'		
24 C	17.5 18.0	Red brown varved silt and clay (CL-ML)		Wet 0 ppm
		CD= 18'		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 25

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N.E. UST, Hall off Butter Room
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/1997	14:52	4'		6"		Perched below floor slab

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
25 A	0.5 1.0	Black oil stained silty clay (CL)	F	Wet 3-5 ppm
25 B	2.0 4.0	Black oil stained silty clay (CL)		Moist 3-5 ppm
			C	
25 C	14.0 14.5	Brown varved silt and clay (CL-ML)		0 ppm
25 D	17.5 18.0	Red brown varved silt and clay (CL-ML)		0 ppm
		PPNDP set to 12'		
		CD= 18		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 26

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. UST, Hall off Butter Room
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/1997	16:02	4'		6"		Perched below floor slab

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
26 A	0.5 1.0	Black oil stained silty clay (CL)	F	3-4 ppm
26 B	10.5 11.0	Tan red brown varved silt and clay (CL-ML)		0 ppm
			C	
26 C	14.0 14.5	Tan red brown varved silt and clay (CL-ML)		0 ppm
		CD= 14.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 27

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. UST, Maintenance Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	8:53	4'		6"		During drilling
7/30/1997	14:40	14.5	5	6"		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
27 A	0.5 1.0	Black oil stained silty clay (CL)	F	400 ppm
				oil stained
27 B	3.0 3.5	Gray silty clay (CL)	F	500 ppm
27 C	14.0 14.5	Brown silty f-m sand (SM)	F	100 ppm
		(Red brown silty clay in tip)	C	
		PPNDP installed to 5'		oil on water
		CD= 14.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 28

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: So. UST, Natural Products area
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			6" concrete slab	F	
			crushed stone to 4'		0 ppm
			Gray silty clay (CL)		
28 A	11.5	12.0	Gray and black mottled silty clay (CL)		0 ppm
28 B	17.5	18.0	Gray varved silt and clay (CL-ML)	C	0 ppm
			CD= 18		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 29

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: So. UST, Natural Products area
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
		crushed stone to 3'		
		Gray silty clay (CL)		1000 ppm
29 A	7.5 8.0	Gray silty clay (CL) oil stained at 8'		
			C	
29 B	11.5 12.0	Gray and red brown silt and clay (CL-ML)		1500 ppm
29 C	18.0 18.5	Dark gray varved silt and clay (CL-ML)		1500 ppm
		oil stained at 18'		
29 D	21.5 22.0	Dark gray varved silt and clay (CL-ML)		1500 ppm
		CD= 22		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 30

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S.E. UST, Natural Products area
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			6" concrete slab	F	
30 A	7.5	8.0	Mottled black and gray silty clay (CL)		800 ppm
30 B	11.5	12.0	Mottled black and gray silty clay (CL)		
					Refusal at 12'
			CD= 12		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 31

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. UST, Product lines, Maintenance Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	11:20	2'		6"		Perched below floor slab
7/31/1998	7:21	2'		6"		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
31 A	0.5 1.0	Gray brown silty f-m sand (SM)	F	500 ppm
		Gray silty clay (CL)		
				Product supply line visible
				Oil on water in open hole
		CD= 2		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 32

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. UST, Product lines, Boiler Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	12:33	8'		2-3'		During drilling
7/30/1997	14:40	8'		2'		

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
				3 ppm
32 A	3.0 3.5	Brown f-m sand, tr. silt (SP)		
			F	
32 B	7.5 8.0	Brown varved silt and clay (CL-ML)		3 ppm
			C	
		PPNDP installed to 8'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 33

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. UST, Product lines, Boiler Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	12:46	4'		1'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
		Brown f sand, little silt (SM) to 3'	F	wet 0 ppm
33 A	3.0 3.5	Brown silty clay (CL)		
33 B	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 34

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. UST, Maintenance Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	11:28	4'		4'		Encountered during drilling
7/30/1997	14:40	8'	5'	4.2		

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
34 A	0.5 1.0	Black oil stained silty clay (CL)	F	500 ppm
34 B	3.0 3.5	Gray silty clay (CL)		500 ppm
34 C	7.5 8.0	Gray varved silt and clay (CL-ML)		200 ppm
		PPNDP installed to 5'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 35

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: Transformer Area, South of Maintenance Room
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/1997	13:41	8'	8'	6"		Encountered during drilling
7/31/1997	7:21	8'	8'	5.3'		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
35 A	0.5 1.0	Gray silty clay, little f-c sand (CL)	F	0 ppm
35 B	3.0 3.5	Gray silty clay (CL)		0 ppm
			C	
35 C	7.5 8.0	Gray silty clay (CL)		2 ppm
		PPNDP installed to 8'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 36

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S.E. UST, Natural Products area
Date Started: 7/30/1997
Inspector: R. Fenz
Date Completed: 7/30/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
		12" crushed stone		
36 A	2.5 3.0	Dark gray silty clay (CL)		200 ppm
			C	
36 B	5.5 6.0	Dark gray and black silty clay (CL)		250 ppm
				600-1000 ppm
36 C	10.5 11.0	Mottled brown silty clay (CL)		Crushed stone ravels in hole
		CD= 11		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 37

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Hallway ramp
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/1997	8:02	4'		3'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
37 A	2.5 3.0	Brown silty f-m sand (SM)		4-6 ppm
				4" void below conc. slab
		CD= 3		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 38

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/29/1997
Inspector: R. Fenz
Date Completed: 7/29/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Water on soil surface at 4'

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			8" concrete slab	Void	
38 A	4.0	4.5	Mottled gray brown silty clay (CL)		3-5 ppm
				C	
					4' void below slab
					Fill line on hanger below slab
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 39

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/28/1997
Inspector: R. Fenz
Date Completed: 7/28/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Water on soil surface at 3.5'

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
39 A	3.8 4.3	Mottled gray brown silty clay (CL)		2-3 ppm
			C	Sheen on soil
				4' void below slab
		CD= 4.3		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 40

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/28/1997
Inspector: R. Fenz
Date Completed: 7/28/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Water on soil surface at 3.5'

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			8" concrete slab	Void	
40 A	4.2	4.8	Mottled gray brown silty clay, little f. sand (CL)		1-3 ppm
				C	
					4' void below slab
			CD= 4.8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 41

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/28/1997
Inspector: R. Fenz
Date Completed: 7/28/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Water on soil surface at 3.5'

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab		
			Void	
41 A	4.0 4.5	Mottled gray brown silty clay (CL)		0 ppm
			C	4' void below slab
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 42

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/28/1997
Inspector: R. Fenz
Date Completed: 7/28/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Water on soil surface at 3.5'

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			8" concrete slab	Void	
42 A	4.0	4.5	Mottled gray brown silty clay (CL)		0 ppm
				C	
					4' void below slab
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 43

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. UST, Fill line, Warehouse
Date Started: 7/28/1997
Inspector: R. Fenz
Date Completed: 7/28/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
43 A	4.0 4.5	Mottled gray brown silty clay, some f. sand (CL)		1 ppm
			C	
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 44
Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: Ext. Storage Area, S.E. Corner
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			4" asphalt	F	
44 S1	0.5	1.0	Gray silty clay (CL)		0 ppm
44 S2	2.5	3.0	Gray silty clay (CL)	C	0 ppm
44 S3	4.0	4.5	Gray silty clay (CL)		0 ppm
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 45

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: Ext. Storage Area, South of fenceline
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" asphalt		
45 S1	0.5 1.0	Brown f. sand, trace silt (SP)	F	0 ppm
45 S2	2.5 3.0	Gray silty clay (CL)	C	0 ppm
45 S3	4.0 4.5	Gray silty clay (CL)		0 ppm
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 46

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: Ext. Storage Area, E. steel stairs
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			6" asphalt		
46 S1	0.5	1.0	Brown f-c sand, some silt, little f gravel (SM)	F	0 ppm
46 S2	2.5	3.0	Gray silty clay (CL)	C	0 ppm
46 S3	4.0	4.5	Gray silty clay (CL)		0 ppm
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 47

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. Rear Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		crushed stone	F	
		Gray and red brown silt and clay (CL-ML)		0 ppm
47 S1	4.5 5.0		C	
47 S2	5.0 6.0	Gray and red brown silt and clay, little f-m sand		0 ppm
		(CL-ML)		
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 48

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S. Rear Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			crushed stone	F	
48 S1	0.5	1.0	Brown silty clay	C	25 ppm
48 S2	4.5	5.0	Brown silty clay (CL)		5-10 ppm
48 S3	5.0	6.0	Brown silty clay (CL)		5-10 ppm
			CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 49

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. Rear Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		crushed stone	F	
		Brown silty f-m sand (SM)		500 ppm
49 S1	4.5 5.0	Brown silty f-m sand (SM)		500 ppm
49 S2	5.0 6.0	Brown silty clay (CL)	C	
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 50

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Rear Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	14:05	4'		6"		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
50 S1	0.5 1.0	Dark brown f-m sand, littlie c sand (SM)	F	1500 ppm
50 S2	4.5 5.0	Brown silty clay (CL)	C	300 ppm
50 S3	5.0 6.0	Brown silty clay (CL)		300 ppm
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 51

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. Loading Dock Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	15:49	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand		
51 S1	5.5 6.0	Brown silty f-m sand (SM)	F	0 ppm
51 S2	6.0 6.5	Brown silty clay (CL)		0 ppm
51 S3	6.5 7.0	Brown silty clay (CL)	C	0 ppm
		CD= 7		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 52

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Loading Dock Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	15:32	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, little silt (SM)	F	0 ppm
52 S1	5.0 5.5	Red brown silt (ML)		0 ppm
52 S2	5.5 6.0	Red brown silt (ML)	C	0 ppm
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 6

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.		Sample Depth		Sample Description	Strata	Remarks
				2" asphalt		10-15 ppm
				Dark gray silty clay (CL)	F	
A6	S1	3.5	4.0	Brown silty clay (CL)		0-5 ppm
					C	
A6	S2	7.5	8.0	Brown silty clay (CL)		0-5 ppm
				CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 7

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
4/27/1998	13:07	4'		8 "		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		2" asphalt		10-15 ppm
		Dark brown f-c sand, little f-c gravel w/ asphalt (SM)	F	
A7 S1	3.5 4.0	Dark gray silty clay (CL)		50-60 ppm
				50-60 ppm
A7 S2	7.5 8.0	Brown silty clay (CL)	C	20-30 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 8

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.		Sample Depth		Sample Description	Strata	Remarks
				2" asphalt		
				Dark gray silty clay, little f-c sand (CL)	F	5-10 ppm
A8	S1	3.5	4.0	Gray silty clay (CL)		
						0-5 ppm
				Brown silty clay (CL)	C	
A8	S2	7.5	8.0			0-2 ppm

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 55B

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S.W. Front Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	17:19	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark brown silty f-m sand (SM)	F	
				0 ppm
55B S1	1.5 2.0	Brown silty f-m sand (SM)		
55B S2	2.0 3.0	Brown silty f-m sand (SM)		
55B S3	7.0 7.5	Brown silty clay, little f sand (CL)		0 ppm
55B S4	7.5 8.0	Brown silty clay, little f sand (CL)		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 53

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. Loading Dock Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	14:22	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, tr silt (SP)		0 ppm
			F	
53 S1	5.0 5.5	Brown f-m sand, tr silt (SP)		0 ppm
53 S2	5.5 6.0	Brown f-m sand, tr silt (SP)		0 ppm
53 S3	6.0 6.5	Brown silty clay (CL)		0 ppm
			C	
		CD= 6.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 54

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S. Loading Dock Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	15:20	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, tr silt (SP)	F	0 ppm
54 S1	5.0 5.5	Red brown silty clay (CL)	C	0 ppm
54 S2	5.5 6.0			
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 55A

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S.E. Front Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	16:36	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	0 ppm
55A S1	1.5 2.0			
		Gravel at 2'		
		CD= 2		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 56

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N.W. Front Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	17:09	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
56 S1	1.5 2.0	Brown clayey f-m sand, little f gravel (SC)	F	0 ppm
56 S2	2.0 2.5	Brown clayey f-m sand, little f gravel (SC)		0 ppm
56 S3	7.0 7.5	Brown silty clay (CL)	C	0 ppm
56 S4	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 57

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Front Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	17:04	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	0 ppm
		No recovery 2-4'		
57 S1	7.0 7.5	Brown silty clay (CL)	C	0 ppm
57 S1	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 58

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: E. Front Spill UST
Date Started: 7/31/1997
Inspector: R. Fenz
Date Completed: 7/31/1997
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/1997	16:51	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)		
58 S1	1.5 2.0	Brown silty f-m sand (SM)	F	0 ppm
58 S2	2.0 3.0	Gray silty clay (CL)		0 ppm
			C	
58 S3	7.0 7.5	Brown silty clay (CL)		0 ppm
58 S4	7.5 8.0	Brown silty clay (CL)		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 1

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark gray silty clay, little f-m sand (CL)		0-1 ppm
A1 S1	3.5 4.0			
		Brown silty clay (CL)	C	0-1 ppm
A1 S2	7.5 8.0			
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 2

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			Dark gray silty clay, little f-m sand (CL)		
			Brown f sand lense 6-8"	F	0 ppm
A2 S1	3.5	4.0			
			Dark gray silty clay, little f-m sand (CL)		0 ppm
			Brown silty clay 6-8' (CL)	C	
A2 S2	7.5	8.0			
			CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 3

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	
			C	0 ppm
A3 S1	3.5 4.0	Dark gray silty clay .5-5' (CL)		
		Brown silty clay 5-8' (CL)		0 ppm
A3 S2	7.5 8.0			
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 4

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. Ext. Storage Area
Date Started: 4/27/1998
Inspector: R. Fenz
Date Completed: 4/27/1998
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark brown f-m sand, some silt (SM)		1-5 ppm
A4 S1	3.5 4.0	Dark gray silty clay, little f-m sand (CL)		0-1 ppm
		Dark gray silty clay, little f-m sand (CL)	F	odor 3-6'
A4 S2	7.5 8.0	Brown silty clay (CL)		
			C	
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 5
Elevation:
Datum:
Date Started: 4/27/1998
Date Completed: 4/27/1998

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: Center Ext. Storage Area
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant **Helper:**
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark gray silty clay, little f-m sand (CL)	F	
		Brown silty clay (CL)		0 ppm
A5 S1	3.5 4.0			
			C	
A5 S2	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

26-03-913
26-8311

0'------5'----------black loam
5'-------24'---------tan colored clay
24'-------90'---------brown clay
90'-------100'-------red clay and stony hardpan
100'---------118'----------red sand
118'-------281'---------red shale

N.J. Dept. of Environmental Protection
Division of Water Resources
Bureau of Water Allocation
RECEIVED

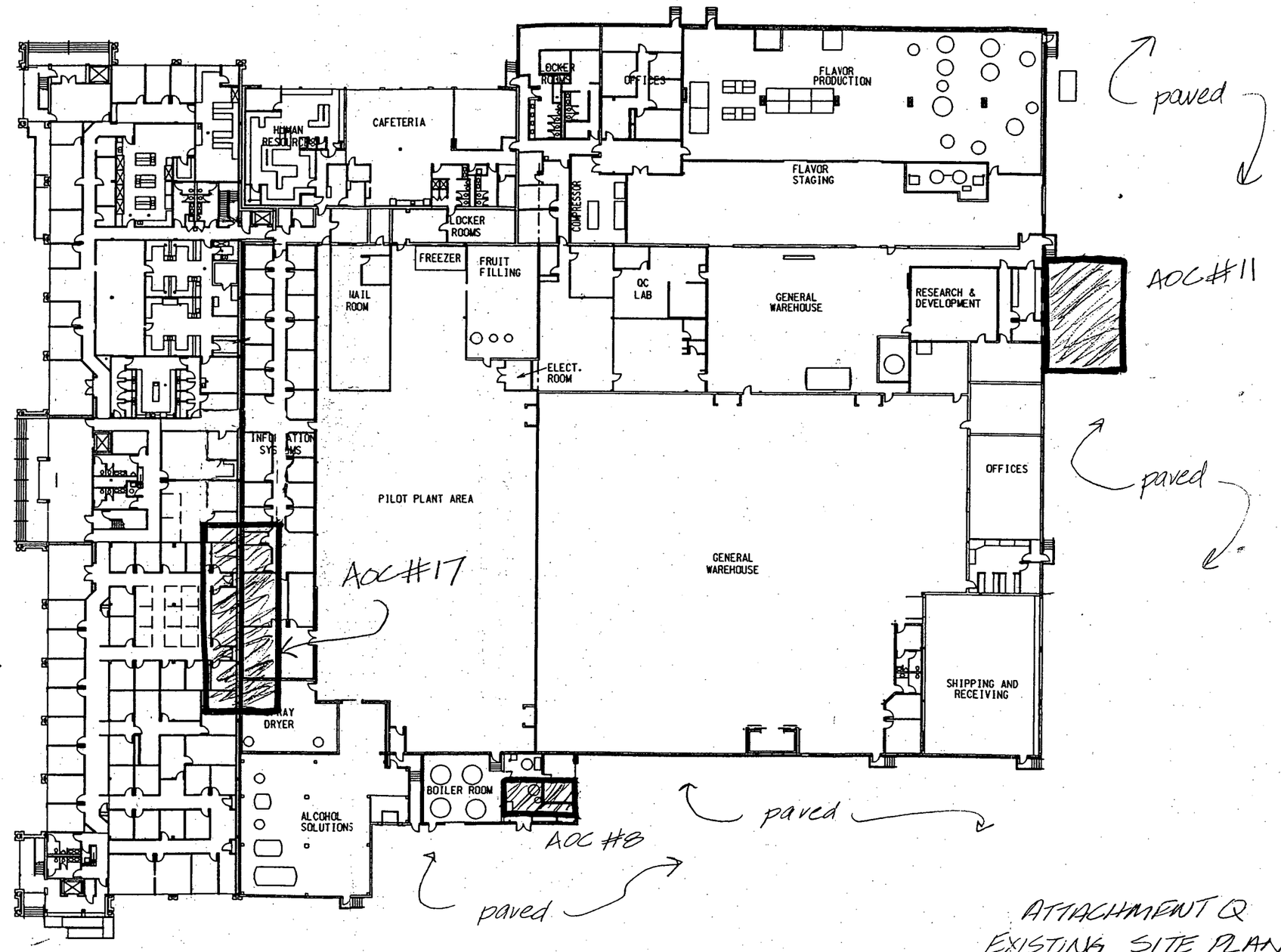
Baker

Baker Environmental, Inc.

ATTACHMENT Q

Current Site Conditions

NORTH STREET



ATTACHMENT Q
EXISTING SITE PLAN

NORTH	IV					DWN. B.T.	DATE 03-01-99	Haarmann & Reimer
	III					CHK. D.S.	DATE 03-01-99	LAYOUT PLAN 300 NORTH STREET TETERBORO, NJ
	II					APPR.	DATE	
	I					SCALE:		
	NO.	DATE	BY	CK.	REVISION	FILE NAME LAYOUT300.DGN		ACCEPTED BY: / DWG. NO. C

SHEET OF

December 4, 1998
22680-000-0000-00005

Remedial Investigation/Remedial Action Report and Remedial Action Workplan

for

Florasynth, Inc.
300 North Street
Teterboro, New Jersey
ISRA Case No. 95108

Prepared by

Baker Environmental, Inc.
Princeton, New Jersey

Baker

Princeton, New Jers

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1.0 INTRODUCTION

This report was prepared by Baker Environmental, Inc. (Baker) to document remedial investigation and remedial action (RI/RA) activities implemented and includes a remedial action workplan (RAW) to propose additional remedial actions at the Florasynth, Inc. facility located at 300 North Street, Teterboro, New Jersey (Site).

This RI/RA/RAW Report is submitted in general accordance with the Technical Requirements for Site Remediation (TRSR) found at NJAC 7:26E et seq. The RI/RA activities described in this report were performed in compliance with the New Jersey Industrial Site Recovery Act (ISRA) as part of ISRA Case 95108.

These activities include RI activities performed in accordance with the NJDEP conditionally approved Site Investigation/Remedial Investigation Workplan (SI/RIWP dated January 1997) as well as additional RI and RA performed due to the discovery of additional site concerns. The areas of concern (AOCs) addressed by this RI/RA Report include the investigation and closure of an abandoned 20,000 gallon #4 fuel oil UST, the closure of an existing spill containment tank located on the south side of the facility, the closure of four abandoned motor fuel UST's found on the southeast side of the facility and the excavation and disposal of impacted soil materials (from the potwash area discharge) found on the southwest side of the building during foundation construction activities. In addition, this RI/RA Report addresses remedial investigation at spill containment tanks located on the north and east sides of the facility, an exterior storage area on the east side of the facility, former electrical transformers on the south side of the facility and groundwater issues. Lastly, this report includes proposed further actions based on the results of RI/RA performed to date.

AOC #3	Cut Pipe
AOC #4	White Pipe
AOC #5	Manhole
AOC #6	8,000 Gallon Alcohol UST No. 1
AOC #7	Ethyl Alcohol UST No. 2
AOC #8	**Abandoned 20,000 Gallon No. 4 Fuel Oil UST**
AOC#9	Former 10,000 Gallon No. 2 Fuel Oil UST
AOC #10	**Spill Containment UST's**
AOC #11	**Storage Area (Exterior)**
AOC #12	**Former Electrical Transformers**
AOC#13	Asbestos
AOC #14	Fill Material
AOC #15	Production/Reinjection Well
AOC #16	**Groundwater**
AOC #17	**Potwash Area**
AOC #18	**Motor Fuel UST's**

AOCs 1 through 7, 9, 13, 14 and 15 were granted "No Further Action" by NJDEP prior to May 1997. Investigation of AOC #8, AOC #10, AOC #11, AOC #12 and AOC #16 were performed in accordance with the conditionally approved SI/RIWP. As the NJDEP was previously notified, AOC #17 and AOC #18 were discovered during the course of investigating the other AOCs and during construction activities on site. The location of the AOCs addressed in this RI/RA/RAWP Report are shown on Figure 1.

3.0 PHYSICAL SETTING

3.1 Site Description

The Site is located at 300 North Street in the City of Teterboro, Bergen County, New Jersey (Figure 2). The Site is bounded on the northeast by North Street. The Lackawanna Railroad borders the Site on the south and west. A consumer electronics distribution facility borders the Site on the northwest.

The Site is approximately six (6) acres in area and contains a three (3) story office/laboratory structure and a large general warehouse which is subdivided into a series of process areas where flavors and fragrances are developed, blended and formulated. Areas within the Site which are not developed by structures are paved or landscaped.

3.2 Land Use and Topography

The Site is located in an industrial area in the City of Teterboro and is surrounded by commercial and industrial facilities. The Site is relatively flat and ground surface elevations are approximately + 7 feet Mean Sea Level.

3.3 Surface Water

Surface drainage is conveyed to a storm water sewer system and open swales along the railroad on the southern and eastern sides of the property. Surface water ultimately discharges to the Hackensack River located approximately one (1) mile east of the Site. The Hackensack River is the largest surface water body in the vicinity of the Site.

The Weehawken Quadrangle in the Atlas of National Wetlands Inventory Maps for New Jersey was reviewed to identify mapped wetlands areas in the vicinity of the Site. No wetlands areas are mapped at the Site. To the west of the Site and beyond the intersection of North and Green Streets, an area mapped as Palustrine Emergent Wetlands is shown. Additional wetlands areas are mapped east of the Site along the banks of the Hackensack River. Within the Site, wetlands vegetation appears to be limited to drainage swales around the perimeter of the Site.

3.4 Geologic and Hydrogeologic Conditions

A preliminary characterization of geologic and hydrogeologic conditions at the Site was presented in the SI/RIW prepared by McLaren/Hart in 1995. The additional information presented here is based on a review of available information and data collected by Baker personnel during remedial investigations performed at the Site and other sites in the vicinity.

3.4.1 Regional Geology

The Site is located within the Newark Basin of the Piedmont physiogeographic provenance. Bedrock in the region consists of Triassic Age sedimentary rocks including sandstones, siltstones and shales of the Passaic Formation. The Site is located within the Hackensack River valley with bedrock outcropping both to the east and west of the Site along the U.S. Route 80 right-of-way. The depth to bedrock at the Site, based on the "Bedrock Map, Hackensack Meadows Area", (New Jersey Department of Conservation and Economic Development, Bureau of Geology and Topography, 1962) is estimated to be 100 to 150 feet below Mean Sea Level.

The bedrock within the Hackensack River valley was deeply eroded by continental glaciation during the latest Pleistocene glacial event. During and following glaciation, the Hackensack River valley was infilled to its current topography with a series of glacial and alluvial sediments and man-made fill soils.

At and immediately below the ground surface, fill materials comprise the upper portion of the soils in the vicinity of the Site. Underlying the fill materials, alluvial soils including marsh sediments deposited by the Hackensack River, exist to varying depths. A thick sequence of proglacial lake sediments consisting of thinly varved silt and clay have been identified in the valley beneath the alluvial sediments. Based on the available information, the proglacial sediments are estimated to be on the order of 100 feet thick in the vicinity of the Site. Glacial till, consisting of a heterogeneous mixture of boulders, gravel, sand, silt and clay, underlies the proglacial sediments immediately above the eroded bedrock surface.

3.4.2 Site-Specific Geology

The Site is underlain by thin fill soils and thin marsh deposits to a depth of approximately four (4) to six (6) feet below ground surface. Proglacial lake sediments including varved silt and clay were identified beneath the fill and marsh sediments in soil borings and excavations conducted during the RI and RA phases of the project. The depth of the varved silt and clay unit at the Site was not fully investigated during the RI and the previous Site investigation, however the proglacial sediments are expected to be on the order of 100 feet thick.

3.4.3 Hydrogeologic Conditions

Four (4) hydrogeologic units are anticipated at the Site, including near surface unconsolidated sediments (fill and marsh deposits), proglacial lake sediments, glacial till and bedrock. Specific characteristics of groundwater flow vary between each of the units based on porosity, texture, hydraulic conductivity, storage and recharge.

Of the four anticipated hydrogeologic units, the bedrock aquifer represents the primary source of

potential groundwater supply in the region. Recent investigations conducted by Baker personnel in the immediate area have indicated that although numerous supply wells exist in the region, these wells are primarily used for industrial supply and not potable supply. Teterboro and surrounding communities receive their water supply from surface water sources located to the north of the Site.

No groundwater aquifers were encountered in the soil borings performed during previous investigations, the RI or RA at the Site. Where observed, trapped water was encountered within loose, porous fill materials, limited to the relatively shallow fill soil materials overlying the silty clay stratum in soils adjacent to building foundations and buried subsurface structures. This trapped water likely results from surface runoff and flooding. The silty clay stratum acts as an aquiclude to vertical migration.

4.0 TECHNICAL REVIEW

RI activities were performed under an NJDEP approved RI Workplan, dated October 31, 1996 and Addendum dated January 20, 1997. The remedial investigation activities for each of the identified AOCs were conducted from July 1997 through April 1998. Activities included the drilling of soil borings using pod mounted Geoprobe ™ drilling equipment. In four of the borings, temporary Passively Placed Narrow Diameter Points (PPNDP) were installed to facilitate the collection of groundwater samples as an alternative to installing monitoring wells within the building. The borings were drilled by a licensed driller and a Baker geologist observed each soil boring and PPNDP installation. Soil samples were visually observed, screened and logged. Soil boring logs for each of the borings are presented in Appendix A.

In addition to the Geoprobe soil borings, pre-excavation soil samples were collected in the proposed demolition area on September 26 and 27, 1997 using hand auger soil sampling equipment. The objective of these borings was to collect additional samples of subsurface materials to comply with material acceptance criteria specified by R3 Technologies, Inc. of Morrisville, Pennsylvania for treatment and disposal.

Soil samples were collected from selected intervals in the soil borings and submitted for the parameters described in Table 1. Water samples collected from the PPNDP were submitted for the parameters described in Table 1. Soil and water samples collected during the investigations were submitted to Envirotech Research, Inc. (New Jersey Certification 12543) for analyses. Historic analytical results from previous investigations are contained in Table 2. Soil and water analytical results are summarized in Tables 3 through 18. The "NJDEP Reduced" laboratory analytical data deliverable is presented in Appendix B.

RA activities included the closures of the 20,000 #4 fuel oil UST, the spill containment tank located on the south side of the facility and the abandoned motor fuel USTs located on the south east side of the facility. Excavation and disposal of impacted soils (from the pot wash area discharge) was also conducted of the southwest side of the property in the excavation area for the new construction.

During the UST closures and excavation activities, visually impacted soils were excavated to clean subsurface materials. Soil samples were collected from the excavation subgrades and along the perimeter of the excavation limits to document soil conditions remaining in place. Post excavation soil samples were collected from beneath and along the centerlines of the USTs and at intervals along product piping runs as required.

Soil samples were collected and submitted for the parameters described in Table 1. The collected soil samples were submitted to Envirotech Research, Inc. for analyses. Post-excavation soil sample analytical results are summarized in Tables 5, 10 and 17. The NJDEP Reduced laboratory

analytical data deliverable is presented in Appendix B. Waste classification samples were also collected and submitted for analysis, as required by the specific disposal facility. Disposal documentation is included in Appendix C, Appendix D, and Appendix E.

The analytical data deliverable packages have been reviewed by the Envirotech quality assurance personnel. Chain of custody records, Methodology Summaries and Non-Conformance Summaries are included with each deliverable. Each deliverable contains the required tuning, method, calibration, surrogate, spike and internal standard summaries. Analytical results, MDL/PQL and NJDEP criteria have been compared for the compounds of concern at the Site and no irregularities have been observed. On this basis, the laboratory analytical data for this project are considered reliable for the Data Quality Objective (DQO) of contaminant delineation established for this project.

5.0 FINDINGS

5.1 AOC #8 Abandoned 20,000 Gallon No. 4 Fuel Oil UST

5.1.1 AOC Description

The abandoned 20,000 gallon Number 4 fuel oil UST (AOC #8) was formerly used to store heating oil for the facility. The former UST system was located beneath an area of the facility identified as the "Butter Room" and was oriented in a general east-west direction parallel with the current building line along the southern side of the facility as shown in Figure 3. Access to the tank was obtained through a manway located near the eastern wall of the former maintenance room adjacent to the Butter Room. The top of the tank at the manway was found to be buried approximately 4 feet below the existing floor slab grade in the maintenance room. The tank bottom was sounded to a depth of 14.7 feet below the maintenance room floor.

One 4-inch diameter fill line ran from the tank in an easterly direction beneath the floor slab for a distance of approximately 120 feet to the eastern side of a former loading dock area where a fill port was located in the loading dock foundation wall. For a distance of approximately 85 feet from the fill port and west toward the tank, the fill line was suspended in an open crawl space beneath the loading dock floor. The fill line was buried in soil beneath the former ramp area for a distance of approximately 35 feet from the former loading dock toward the tank.

Product supply and return line piping, consisting of two 2-½-inch and two 1½- inch copper lines, ran in a westerly direction from the tank manway for a distance of approximately 80 feet into the boiler room where the lines stubbed up in the boiler room floor slab adjacent to the two most southerly boiler systems.

The UST system was reportedly abandoned in the late 1970's when the facility was converted to natural gas. At that time, the UST fill line was plugged at the loading dock port, vent piping was removed and the boiler supply and return lines were cut flush with the boiler room floor. Fill, supply and return lines were left in place below the concrete floor slab. The tank was partially filled with sand and left in place.

5.1.2 Previous Data

Previous Site investigations performed in 1995 in the vicinity of the abandoned 20,000 gallon # 4 fuel oil UST included a series of 20 soil borings (GP-1 through GP-10 and GP-14 through GP-22). As shown in Figure 3, the soil borings were drilled surrounding the UST in the maintenance and warehouse areas of the facility. During this investigation, soil samples were collected from the completed borings and were submitted for analyses including Total Petroleum Hydrocarbons (TPHC) and Base Neutral Organics plus a forward library search of 15 unidentified compounds

(BN+15). A summary of previous soil sample analytical results are presented in Table 2.

As shown in Table 2, TPHC concentrations from the collected samples ranged from non-detect to 40,000 parts per million (ppm). In those samples where BN+15 were analyzed, a series of polycyclic aromatic hydrocarbons associated with petroleum fuel oil were also detected at concentrations exceeding NJDEP Soil Cleanup Criteria (NJDEP SCC). In addition, isolated areas of trapped water were encountered. Based on these findings, NJDEP required further investigation of this area, including identification and characterization of the water.

5.1.3 Description of RI Activities

During the 1997 RI activities conducted at the Site, a series of 20 soil borings (GP-23 through GP-43) were performed adjacent to the former tank, product piping and fill line. Soil boring locations are shown in Figure 4. Soil boring logs are presented in Appendix A.

Soil samples were collected from each soil boring and submitted for TPHC analyses. BN+15 analyses were requested for samples where TPHC exceeded 100 ppm. Soil sample analytical data are presented in Table 3.

In 4 soil borings, PPNDP were installed to facilitate the collection of water samples. Water samples were collected and submitted for analyses including VO+10, BN+15 and water quality parameters. Water sample analytical results are presented in Table 13.

5.1.4 Field Observations and Screening Results

Soil boring logs are presented in Appendix A. Based on field classification of the collected soil samples the following soil units were observed:

Surface: All of the soil borings completed surrounding the UST system tank and product lines were drilled through concrete floor slabs on the order of 6 to 8-inches thick.

Fill: Fill soils beneath the floor slab in the vicinity of the UST system varied in physical characteristics and thickness depending upon location. In the immediate vicinity of the former tank, fill soils consisted of reworked on-site materials and consisted of red brown silty clays and clayey silts (CL-ML). Fill soils encountered in the soil borings performed to the south and east of the former tank in areas of the Site identified as the "Lemon Room" and warehouse consisted of approximately 2 to 3 feet of ¾-inch clean crushed stone (GP) overlying approximately 4 feet of reworked on-site soils (CL-ML). Fill soils encountered along the former supply and return lines in the maintenance room were approximately 3 feet thick and consisted of reworked on-site soils (CL-ML). Approximately 2 feet of brown fine sand, trace to little silt (SP-SM) were encountered beneath the boiler room slab and beneath the ramp to the east of the former tank location.

Silty Clay: Soils encountered beneath fill materials were classified as reddish brown silty clay (CL). These silty clay soils were observed to contain root tubes to a depth of approximately 6 feet. Thinly varved silts and silty clay (CL-ML) with thin 1/8-inch fine sand lenses were consistently encountered below the silty clay soils. The thickness of the varved silts and clays at the Site has not been confirmed. Based upon previous experience in the area, the varved silts and clays are expected to be on the order of 100 feet thick.

Excavations performed within the natural silty clay stratum were dry. These data suggest that water in the subsurface is trapped in isolated areas within the fill.

5.1.5 RI Laboratory Analytical Data

Soils

Laboratory analytical results for the soil samples collected from the soil borings performed surrounding the 20,000-gallon fuel oil UST are presented in Table 3. Petroleum-related contamination was observed in the fill soils adjacent to the UST components and below the floor slab in the maintenance area and Butter Room.

Water

Laboratory analytical results for the water samples collected from the soil borings performed in the vicinity of the 20,000-gallon fuel oil UST are presented in Table 13. Analytical data are further described in section 5.5 of this report.

5.1.6 Contaminant Distribution

Based upon the field observations and laboratory analytical results, soil and trapped water contamination associated with a release of petroleum product from the fuel oil UST was observed in areas of the Site immediately surrounding the UST and in the vicinity of the product supply lines west of the UST running towards the boiler room. The horizontal and vertical extent of petroleum contamination in soils was limited to the backfill surrounding the UST components and immediately beneath the concrete floor slab. No soil contamination was observed in the natural silty clay stratum below the fill. The extent of trapped water contamination was observed to be limited to isolated areas within the fill.

5.1.7 Description of RA (Closure of the 20,000-gallon Fuel Oil UST)

In October and November, 1997, the 20,000-gallon UST system was closed by removal during demolition activities related to the facility renovation. Remedial activities included the demolition of portions of the existing building over the tank and fill lines. During closure activities, impacted soils surrounding the UST were excavated, stockpiled and then disposed of in accordance with applicable regulations. The contents of the UST, including free product and sludge, and water encountered in the excavation area was removed via vacuum trucks. During closure activities, the UST excavation area became flooded during several precipitation events. This surface water was pumped from the excavation areas and staged in storage tanks. These liquids were also removed from the Site and disposed of in accordance with applicable regulations at Lorco Petroleum Services in Old Bridge, New Jersey.

Prior to excavation, soils in the proposed excavation area were sampled in-place and characterized for waste disposal purposes. The pre-excavation analytical data is summarized in Table 4.

Soils surrounding the UST and product lines were excavated to clean subgrade soil materials within the silty clay stratum. Excavation was conducted over a wide area in the building demolition area to the south and east of the tank and to the building line to the north of the UST. Excavation of petroleum impacted soils was limited west of the UST area in the direction of the boiler room due to access restrictions within the existing building and the proximity to underground electric lines and process equipment in this area. As a result, petroleum contaminated soils and the product supply and return lines were left in place in the subgrade within the maintenance and boiler rooms of the building. Post-excavation soil samples were collected immediately beneath the tank and product lines as prescribed by the regulations. Soil samples were also collected at the excavation limits to document the condition of Site soils which remain in the subsurface. Based upon the excavation and post-excavation sample results, the extent of contamination has been fully delineated and is shown on Figure 4.

Upon completion of the UST closure operations, the excavation areas were backfilled with "certified clean" 1-1/2 inch clean coarse, crushed stone to finished subgrade elevations. This type of material was used to provide a stable subbase for paving of the area. The area of concern was then paved with bituminous pavement. At the western limit of the excavation area, a building wall foundation was constructed to support the portions of the building remaining in place.

A total of 1888 tons of soil was excavated from the AOC during the RA. The soil was stockpiled on-site, sampled and analyzed to determine waste disposal classification.

Based on the results of laboratory analysis, the material was classified as non-hazardous and accepted for disposal by R3 Technologies in Morrisville, Pennsylvania. The soil was disposed at

G.R.O.W.S landfill, also located in Morrisville, Pennsylvania.

Documentation of the RA performed in AOC #8 is contained in Appendix C.

5.1.8 Field Observations

During UST closure activities, the tank and the product supply lines running to the boiler room were observed to be corroded. Petroleum impacted soils were observed in the backfill soils surrounding the tank and the product lines. Petroleum product was also observed immediately beneath the floor slab of the former maintenance area and Butter Room.

Excavation of Site soils continued throughout the foot print of the demolished building to depths ranging from 21.5 feet in the UST excavation area and 4 to 8 feet below finished grade in other areas until clean subgrade soils were encountered. Excavation of impacted soils beneath remaining portions of the building west of the UST was not performed because of safety and foundation integrity concerns.

5.1.9 RA Laboratory Analytical Data

A summary of the post excavation soil samples collected from the UST excavation area are presented in Table 5. Post-excavation soil sample locations are presented in Figure 4.

Throughout the area excavated during the UST closure, petroleum impacted soils were successfully removed to clean materials in the subsurface. Laboratory analytical data confirm that all petroleum contaminated soil materials have been removed. Petroleum contaminated soils remaining in the subsurface are located west of the former UST along the product piping lines running to the boiler room. At the western limits of the excavation area, elevated TPHC concentrations ranging from 20,100 to 57,700 ppm were detected in soil samples collected in the vicinity of the product piping at post-excavation sample locations X52, X53 and X59. Base Neutral compounds including Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene and Benzo(a)pyrene were detected at concentrations exceeding the NJDEP SCC. In sample X52A (collected from the 5 to 5.5 feet bgs interval), benzo(a)anthracene was detected at 2.8 ppm; benzo(b)fluoranthene was detected at 1.7 ppm (estimated value); benzo(a)pyrene at 1.5 ppm (estimated value); benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene were reported as undetected with an elevated detection limit of 1.9 ppm. In sample X53A, (collected from the 5 to 5.5 feet bgs interval), benzo(a)anthracene was detected at 1.6 ppm; benzo(a)pyrene at 0.68 ppm (estimated value); benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene were reported as undetected with an elevated detection limit of 0.94 ppm. In sample X59 (collected from the 2.25 to 2.75 feet bgs interval), benzo(a)anthracene was detected at 0.95 ppm. These sample locations are located beneath existing structures and are not accessible for removal due to safety concerns, including

proximity to high voltage electrical supply lines and foundation integrity. The extent of contamination is limited in area and volume. Migration is expected to be negligible since the area is beneath the structure and underlain by clay which prevents vertical migration into the aquifer.

5.2 AOC #10 Spill Containment Tanks

5.2.1 AOC Description

Three spill containment tanks identified as AOC#10a, 10b, and 10c have been identified on the property as shown in Figure 1. These spill containment tanks are/were connected to floor drainage systems within the facility and are/were designed to intercept and contain accidental product spills in the facility. The tanks are constructed of concrete and are approximately 500 to 1000-gallons in capacity. Piping to the spill containment tanks includes standard floor drains in the building interior and PVC pipe exterior to the building.

At the present time, two spill containment tank systems are still in place: the system located near the northeast corner of the building (AOC#10c) and the system located adjacent to the loading dock area on the east side of the building (AOC#10b). Both systems have approved closure plans and will be closed by removal in the future. The spill containment tank located south of the building (AOC #10a) was closed by removal during October 1997.

5.2.2 Previous Data

No previous data exist to document subsurface conditions in the vicinity of the spill containment UST's.

5.2.3 Description of RI Activities

During the RI activities performed at the site, a series of soil borings (GP-47 through GP-58) were located in areas surrounding each of the spill containment tanks. Soil boring locations are shown in Figures 5A, 5B, and 5C. Laboratory analytical results from soil samples collected are presented in Tables 6, 7 and 8. Additionally, a sample of the liquids present in the AOC #10a tank was analyzed for waste classification purposes. Laboratory analytical results for the liquid sample are presented in Table 9.

5.2.4 Field Observations and Screening Results

Subsurface soils surrounding the spill containment tanks included fill materials overlying silty clay. Trapped water was observed in the fill soils surrounding the tanks at some boring locations. Groundwater was not encountered in the natural silty clay stratum.

5.2.5 Laboratory Analytical Data

Soil samples were analyzed for the parameters shown in Table 1. No samples collected from AOC #10b or 10C exhibited concentrations above NJDEP SCC. Both systems were dry at the time of the investigation.

At AOC #10a, in one soil sample collected from GP-47 at a depth of 5 to 6 feet bgs, PCBs were detected at concentrations exceeding NJDEP SCC. In samples GP-47, GP-48 and GP-50, methylene chloride was detected above the impact to groundwater criteria of 1 ppm at levels ranging from 2.3 to 17 ppm.

5.2.6 Contaminant Distribution

Soils in AOC #10a were subsequently excavated during closure of the spill containment tank system.

5.2.7 Description of RA (Closure of Rear Spill Containment Tank)

In October and November, 1997 following the closure of the 20,000-gallon fuel oil UST, the rear spill containment tank was also closed by removal. Liquids contained in the sump were removed and the tank was cleaned. The tank and area surrounding the tank was excavated to a depth of approximately 6 feet below existing grade. Waste materials generated during closure operations were disposed of in accordance with applicable regulations. RA documentation is contained in Appendix C.

5.2.8 Field Observations

During closure activities, subsurface soil conditions encountered in the excavation area included fill materials immediately surrounding the tank to a depth of approximately 4 feet below ground surface. Natural subgrade soils including silty clay was encountered below the tank base. Groundwater was not encountered in the excavation area.

5.2.9 RA Laboratory Analytical Data

Following UST closure, a series of post-excavation soil samples were collected from the subgrade soils and submitted for laboratory analyses. Sampling locations are shown on Figure 4B. Laboratory analytical results are presented in Table 10. Volatile organic and PCB concentrations were below NJDEP SCC in post excavation samples. With the exception of sample X43-2, collected at a depth of 2-2.5 feet bgs, no compounds were detected above NJDEP SCC. That sample was also collected as a post-excavation sample for AOC #8. In that sample, the following base neutral organic compounds were detected above the Residential Direct Contact Criteria: benzo(a)anthracene at 1.8 ppm, benzo(b)fluoranthene at 3 ppm, benzo(k)fluoranthene at 1.1 ppm, benzo(a)pyrene at 1.6 ppm, and indeno(1,2,3-cd)pyrene at 1.2 ppm. With the exception of benzo(a)pyrene, the levels are below the Non-Residential Direct Contact Criteria. The source of these compounds is not considered to be the spill containment tank system or site operations and may be indigenous to the fill or from asphalt.

5.3 AOC #11 Exterior Storage Area

5.3.1 AOC Description

The exterior storage area was approximately 40 feet by 60 feet located on the east side of the building. The area was used for the storage of miscellaneous items including used storage containers. The area also contained a large above ground storage tank containing propylene glycol.

5.3.2 Previous Data

Previous analytical data from the exterior storage area included soil samples collected from 3 soil borings. Previous analytical results are presented in Table 2. Base neutral organic compounds were detected exceeding NJDEP SCC in sample GP-11 and additional investigation was required to delineate the extent.

5.3.3 Description of RI Activities

In July, 1997, a series of three soil borings (GP-44, GP-45 and GP-46) were performed in this area of concern to further evaluate the detected contamination. During the winter of 1998, the exterior storage area was demolished. The perimeter fence was removed and the above ground storage tank was closed. Following the completion of the demolition work, in April, 1998 an additional eight soil borings were performed in this AOC to investigate an odor observed in the area during demolition work.

Soil boring locations are presented in Figure 6. Laboratory analytical data are presented in Table 11.

5.3.4 Field Observations and Screening Results

The exterior storage area was paved with approximately 6 inches of asphalt and crushed stone base. Soil immediately below the asphalt pavement included a gray silty clay to the completion depth of each boring. Groundwater was not encountered in the soil borings. No PID readings above background were observed.

During the demolition work conducted in the exterior storage area, portions of the existing asphalt pavement were excavated and subgrade soils disturbed to remove concrete footings. A strong, pungent odor was observed in the disturbed soils in this area. The odor was not identifiable and dissipated completely. Additional soil borings were performed to investigate the nature of the odor.

5.3.5 Laboratory Analytical Data

Soils

Shallow soil samples GP-44S1 and GP-46S1 exhibited concentrations of base neutral organic compounds slightly above the NJDEP RDCSCC. In sample GP-44S1, benzo(a)anthracene was detected at 1.1 ppm, benzo(b)fluoranthene at 1.3 ppm, and benzo(a)pyrene at 1.1 ppm. In sample GP-46S1 benzo(a)anthracene was detected at 3.7 ppm, benzo(b)fluoranthene at 3.9 ppm, benzo(k)fluoranthene at 1.6 ppm, benzo(a)pyrene at 3.1 ppm and indeno(1,2,3-cd)pyrene at 1.9 ppm. With the exception of benzo(a) pyrene, all concentrations were below the Non-residential Direct Contact SCC (NRDC SCC).

Groundwater

Groundwater was not encountered in the soil borings in this area of the Site.

5.3.6 Contaminant Distribution

No specific sources of base neutral organics have been identified in this AOC. Based on the location and depth of samples exceeding SCC, the levels are most likely attributable to asphalt and/or fill material.

5.4 AOC #12 Former Electrical Transformers

5.4.1 AOC Description

The former electrical transformers were located exterior to the south side of the building adjacent to the maintenance area as shown in Figure 1. Prior to this RI, the transformers were removed from the Site and a new electric supply system was installed. The NJDEP required collection and analysis of a sample in the vicinity of the former transformers.

5.4.2 Previous Data

No previous data exist to document subsurface conditions in the vicinity of the former electric transformer bank.

5.4.3 Description of RI Activities

RI activities conducted in this area of concern included one soil boring, GP-35, located immediately east and down slope from the former transformer bank area (see Figure 3). Access to this AOC was restricted due to existing electric underground lines.

To evaluate this area of concern, soil samples were collected at a depth of 0.5 to 1.0 feet bgs directly below the concrete slab and submitted for PCB analyses. Additional samples were also collected from this soil boring and submitted for TPHC and BN+15 analyses to assist in the delineation of petroleum contamination associated with the former 20,000-gallon UST (AOC #8). GP-35 was also used for the installation of a PPNDP to sample water. Laboratory analysis results are summarized in Table 3 for AOC #8 and Table 12 for AOC #12.

5.4.5 Field Observations and Screening Results

Subsurface soils encountered in the soil boring included gray silty clay to 8 feet bgs. PID readings above background were not observed in the soil boring performed to a depth of 4 feet. For the subsurface interval between 4 to 8 feet bgs, PID readings averaged approximately 2 ppm above background.

Water was not initially encountered in the soil boring and was observed to slowly seep into the soil boring from beneath the concrete slab. On the following day, water was observed at a depth of 5.3 feet bgs. The amount of water available for sampling was limited indicating that the water encountered at this location, as elsewhere, was in a localized, trapped condition, due to surface runoff.

5.4.6 Laboratory Analytical Data

Soils

PCBs were not detected in the soil sample collected from the GP-35 location.

Water

Water analytical data are further discussed in section 5.5 of this report.

5.5 AOC #16 Groundwater

5.5.1 AOC Description

During this RI and RA, investigations were limited to the upper 20 feet of the subsurface. As previously described in this report, water in the subsurface was encountered in fill soils adjacent to building foundations and buried subsurface structures. Water was not encountered in the varved silt and silty clay stratum.

Groundwater was not encountered in any of the soil borings drilled or excavations below the surficial fill soils. This silty clay stratum acts as an aquiclude, an impermeable formation which effectively prevents the vertical migration of trapped water and potential groundwater contaminants.

5.5.2 Previous Data

Previous investigations performed by McLaren/Hart identified isolated areas of water in the AOC #8 area. The According to the Preliminary Assessment Report (PAR) dated May 1, 1995, two production wells are located at the facility. They were reportedly inactive since installation in 1985. Well records and permits for the two wells were obtained from NJDEP. One well was permitted for cooling water production and the other was permitted as a "dispersion well" to be used for "returning water", presumably the (non-contact) cooling water extracted from the production well. Static water levels were reported to be 24 and 22 feet below ground surface, respectively. The wells were reported to be 250 and 281 feet in total depth. A clay layer was identified at five beet below ground surface, indicating that the aquifer is confined.

5.5.3 Description of RI Activities

During the RI activities conducted at this Site, a series of four PPNDP were installed in soil borings to monitor the depth to water encountered in the subsurface and to facilitate the collection of water samples. PPNDP were installed in borings GP-25, 32, 34 and 35. These soil boring locations were selected to obtain representative water samples from the shallow subsurface in the vicinity of the former 20,000-gallon fuel oil UST.

5.5.4 Field Observations and Screening Results

Water in the subsurface was encountered sporadically in the shallow soil borings performed. Based on our observations, water was only encountered within the porous fill soils used to backfill subsurface utilities and building structural components. Water was not encountered in the varved silt and silty clay stratum in either the soil borings or the excavations performed during the various remedial activities conducted. Based upon our observations, we conclude that any occurrence of water in the subsurface is in a localized perched condition due to surface runoff and/or flooding.

5.5.5 RI Laboratory Analytical Data

The analytical data from the water samples collected from the PPNDP installed at this Site are presented in Table 13. As shown, the only exceedances to the NJDEP Groundwater Quality Standards (NJDEP GWQS) were benzene, detected at a concentration of 3 ppb at the GP-25 PPNDP location north of the former 20,000-gallon UST, and bis(2-ethylhexyl)phthalate detected at 39 ppb in the GP-32 sample and 870 ppb in the GP-34 sample. No other contaminants of concern exceeding the applicable NJDEP GWQS were detected in the water samples analyzed.

5.5.6 Contaminant Distribution

The extent of contamination in the water samples collected at this Site appears to be limited to the immediate vicinity of the former 20,000-gallon fuel oil UST. The apparent source of contamination was the former UST system. With the removal of this system, the apparent source of contamination has been removed and the levels can be expected to attenuate over time.

5.6 AOC #17 Pot Wash Area

5.6.1 AOC Description

During construction of a building addition, an additional Area of Concern (AOC) was identified during removal of a former loading dock area. Four pipes leading from the pot wash area inside the building to the building exterior were uncovered during excavation. On July 10, 1997, a suspected release of hazardous substances from the facility was reported to the NJDEP Spill Hotline and incident number 97-7-10-1844-23 was assigned and the ISRA Case Manager notified.

Potentially contaminated soil was observed at two locations within the work area. Potentially contaminated soils were field screened, removed and stockpiled on Site. Post-excavation samples were collected after removal of potentially contaminated soils and submitted to a laboratory for analysis. The source of contamination was subsequently believed to be discharge from the pot washing room inside the plant. Subsequent to excavation and removal of potentially impacted soils, an additional release from the pot wash area was observed. Pot washing operations were immediately halted and measures implemented by the facility to cease the discharge. Stormwater which had subsequently entered the excavation was pumped from the excavation area immediately adjacent to the discharge. Because of the proximity to the building foundation, it was determined that additional soils could not be removed without compromising the foundation. However, additional soil samples were collected for analysis to document the condition of soils left in place potentially affected by the additional discharge. Contaminated soils were stockpiled and classified for off-site disposal.

5.6.2 Previous Data

There was no previous data on this AOC.

5.6.3 Description of RA (Excavation and Disposal of Impacted Soils))

The following remedial actions were performed in response to the conditions in AOC#17:

Excavation of suspected contaminated soil; segregation of potentially contaminated soil;

Post-excavation soil sampling and analysis;

Sampling and analysis for classification and disposal of soils;

Investigation of discharge sources (See Memorandum dated 8/5/97 and 8/17/97 in Appendix D);

Collection, storage, sampling and classification of liquids for disposal;

Repair (including sealing of the pipes), process modification and cessation of discharges from the source area; and

Second round of soil sampling and analysis; and

Off-site disposal of soils and liquids.

A summary of each remedial action follows.

5.6.3.1 Soils

Two areas of potentially contaminated soil were discovered during construction activities within this AOC. Soils were excavated and staged on-site for subsequent classification and disposal. Additional soils excavated from the general vicinity were stockpiled separately, as they did not appear contaminated, based on visual observation and field screening. Post-excavation soil samples were collected and analyzed to document soil conditions following the remedial action.

A detailed description of the excavation activities, soil removal, and initial round of post-excavation sampling and analysis is contained in the RA Documentation for AOC#17 in Appendix D. Appendix D also contains a Project Report prepared by K&S Environmental, Inc. of Morristown, New Jersey. K&S performed environmental oversight of the excavation activities.

A total of 5520 tons of soil was excavated from the AOC during construction activities and disposed off-site. Of this total, approximately 1500 tons of material was segregated and stockpiled on-site as potentially contaminated (based on visual observations and field screening instruments). These soils were segregated into two separate stockpiles designated Soil Pile A (approximately 300 tons) and Soil Pile B (approximately 1200 tons). Soil Pile C (approximately 4020 tons) was stockpiled separately; no visible contamination was observed. The soil was sampled and analyzed to determine waste disposal classification. Analytical information for Soil Pile B also indicated this material was above NJDEP RDCSCC.

Based on the results of laboratory analysis, the material was classified as non-hazardous and accepted for thermal processing by R3 Technologies in Morrisville, Pennsylvania. The processed soil was utilized as clean cover for the G.R.O.W.S landfill, also located in Morrisville, Pennsylvania.

In addition to the analytical reports for waste classification, Appendix D contains correspondence related to disposal facility acceptance, and disposal certificate of destruction.

Following a significant rainfall event, and upon observation of potentially contaminated stormwater (sheen, odors) in the previously excavated areas, an additional four soil samples

(from two locations at two different depths: 0-6 inches below ground surface and 12-18 inches below ground surface) were collected (after pumping the stormwater to a storage tank on-site) and submitted to a laboratory for total petroleum hydrocarbon and PP+40 analysis.

Sample locations are shown on Figure 7. The laboratory report is contained in Appendix D. Based on the laboratory analysis, the impact to groundwater criteria of 50 ppm for diethylphthalate was exceeded in samples B-1 (91 ppm) and B-2 (120 ppm). The IGW criteria represents the most restrictive criteria for diethylphthalate. The Residential and Non-Residential Direct Contact Cleanup Criteria were not exceeded.

5.6.3.2 Source Investigation and Mitigation

An investigation was performed to determine the source of contamination discovered during construction activities and to evaluate the function of the pipes found outside the pot washing room near the former loading dock. Specific details of the investigation, including the results and actions by the facility to mitigate the discharge are contained in Appendix D.

5.6.3.3 Sampling, Analysis and Disposal of Stormwater

Following a period of significant rainfall, stormwater was observed in the excavation area. To facilitate construction and further investigation of the area, stormwater was periodically pumped from the area to a temporary storage tank on-site.

Samples of the stormwater were collected on August 12th and submitted for PP+40 analysis. The analytical results are contained in Appendix D. Comparison of the analytical results with the Groundwater Quality Criteria (GWQC) indicates the exceedance of the GWQC of 30 ppb for bis (2-ethylhexyl) phthalate in the storage tank contents (2700 ppb) and the stormwater/trapped water collected from the excavation (590 ppb).

A sample of the storage tank contents was also collected and analyzed for disposal classification. Based on the laboratory analysis, the material was classified as non-hazardous wastewater (New Jersey ID72) and 7,600 gallons was transported via vacuum truck to Lorco Petroleum Services in Old Bridge, New Jersey for disposal. Disposal documentation is contained in Appendix D.

5.7 AOC #18 Motor Fuel USTs

5.7.1 AOC Description

During construction activities conducted at the Site during the winter of 1997-1998, a UST fill port was observed in the subsurface near the southeast corner of the building. This fill port was further investigated and found to be connected to a formerly unknown UST system. The UST was sounded and found to be a 5.5 foot diameter tank. The UST system was subsequently registered and permits and approvals to close this system were obtained.

A sample of the liquids within the found UST was collected and submitted for analyses. The analytical results, as presented in Table 16, suggest that the UST system formerly contained compounds associated with leaded gasoline.

In early June of 1998, UST closure operations of the found UST were initiated. During excavation activities, three additional UST systems were found. The found UST systems included the following:

UST 1: 3000-gallon UST
UST 2: 2000-gallon UST
UST 3: 1500-gallon UST
UST 4: 3000-gallon UST

A Site location sketch showing the configuration of the found UST systems is presented in Figure 8.

UST systems 1, 2, and 3 were found to be manifolded, the fourth UST system was independent and not connected to the other systems. No vent or other product piping was observed in the area of the UST systems.

5.7.2 Previous Data

There was no previous data on these found UST systems.

5.7.3 Description of RA (Closure of Motor Fuel USTs)

Closure approval was granted by the NJDEP in correspondence dated May 21, 1998. The closure work was accomplished in accordance with NJDEP regulations and protocols. Following removal of each system, additional excavation was conducted to remove any visually impacted soil materials. These soil materials were stockpiled on the project Site, sampled for waste classification purposes and disposed of in accordance with the regulations. Liquids found in the UST systems were also disposed of in accordance with the regulations.

Following UST closures, post-excavation soil samples were collected from the UST excavation areas. The samples were collected from the centerline of the former UST's and submitted for VO+10 and lead analyses. Post-excavation soil sample analytical data are presented in Table 17. Soils from the UST excavation area were sampled for waste classification purposes. Waste classification results are presented in Table 18.

Upon completion of the UST closure operations, the excavation areas were backfilled with "certified clean" 1-1/2 inch clean coarse, crushed stone to finished subgrade elevations. This material was used for structural stability purposes due to the proximity of railroad tracks. The area of concern was then paved with bituminous pavement.

Based on the conditions of the tank, the NJDEP Spill Hotline was notified and Case Number 98-06-02-1209-44 was assigned.

A total of 508 tons of soil was excavated from the AOC during UST closure. The soil was stockpiled on-site. Upon approval, the soil was transported to R3 Technologies for disposal.

Documentation of the RA in AOC#18 is contained in Appendix E.

5.7.4 Field Observations

Corrosion holes were observed in each of the found UST systems. No product piping beyond the limits of the UST systems was found. Each of the tanks were observed to be filled with water. Groundwater was not observed in the excavation.

5.7.5 RA Laboratory Analytical Data

Laboratory analytical data from the post-excavation soil samples collected are presented in Table 17. No compounds were detected exceeding NJDEP SCC.

6.0 REMEDIAL ACTION WORKPLAN

Remedial Investigation and Remedial Action activities have been conducted to address the remaining AOCs identified at this Site. Conclusions and recommendations for further remedial action for each AOC are described in this section.

6.1 AOC #8 Abandoned 20,000 Gallon No. 4 Fuel Oil UST

The abandoned 20,000-gallon fuel oil UST system has been closed by removal. Petroleum contaminated materials have been removed from the north, east and south sides of the UST area. Petroleum contaminated soils remain in the subsurface beneath portions of the existing building. Additional excavation of the petroleum impacted soils and former product supply lines is not considered practical since this area is beneath an existing building containing electrical and mechanical systems required for facility operations. The extent of petroleum contamination remaining in the subsurface has been delineated and is limited in extent, both horizontally and vertically. The building acts as an engineering control. In addition, the contaminant levels are expected to decrease over time as they degrade. A deed notice is proposed for this area as shown on Figure 9.

6.2 AOC #10 Spill Containment Tanks

Three existing spill containment tanks have been investigated at this Site. No contaminants of concern were detected in soils at concentrations exceeding NJDEP SCC at the front and loading dock spill containment UST's. The rear spill containment UST has been successfully closed by removal. Impacted soils were removed. No further action is proposed for the rear spill containment UST. It is our understanding that the facility plans to close the front and loading dock spill containment systems in the future.

6.3 AOC #11 Exterior Storage Area

The exterior storage area located on the eastern side of the facility has been investigated. The contaminants of concern detected at this AOC during the initial investigations were base neutral organic compounds. The source of these contaminants appears to be asphalt and/or fill material. The extent of contamination is limited in horizontal and vertical extent. The pavement acts as an engineering control. A deed notice is proposed for this area as shown on Figure 9.

6.4 AOC #12 Former Electrical Transformers

The former electrical transformer area on the south side of the Site has been investigated. No PCBs were detected in this area of concern. No further action regarding the former electrical transformers is required.

6.5 AOC #16 Groundwater

Shallow subsurface conditions have been investigated at the project Site. Trapped water was encountered in isolated areas in fill soils surrounding buried subsurface structures. No groundwater aquifers were encountered in the underlying varved silt and clay stratum. This stratum acts as an aquiclude preventing the vertical migration of any contaminants to underlying aquifer units. Therefore, the AOCs at the Site are not hydraulically connected to the underlying aquifer unit and are not expected to impact groundwater.

Contamination detected in the water samples collected appears to be related to the release of petroleum product from the former fuel oil UST system. This contamination source has been removed. No further action regarding the trapped water is proposed.

The two existing wells at the Site will be properly abandoned in accordance with NJDEP well sealing requirements.

6.6 AOC #17 Potwash Area

Impacted subsurface materials in the potwash area have been excavated and disposed. The contamination source has been removed. A limited area of impacted soil at levels above NJDEP SCC remains in place beneath the existing building which acts as an engineering control. A deed notice is proposed for this area as shown on Figure 9.

6.7 AOC #18 Motor Fuel UST's

The found motor fuel UST systems have been successfully closed by removal. No further action is required for this area of concern as no soil samples contained contaminants of concerns at levels exceeding NJDEP SCC.

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	BN+15	VO+10	PCBs	TAL Metals	PP Metals
GP 23 A	8	7/29/97	Soil	2.5	3.0	X	X				
GP 23 B	8	7/29/97	Soil	14.0	14.5	X	X				
GP 23 C	8	7/29/97	Soil	17.5	18.0	X	X				
GP 24 A	8	7/29/97	Soil	0.5	1.0	X	X				
GP 24 B	8	7/29/97	Soil	2.0	4.0	X	X				
GP 24 C	8	7/29/97	Soil	17.5	18.0	X	X				
GP 25 A	8	7/29/97	Soil	0.5	1.0	X	X				
GP 25 B	8	7/29/97	Soil	2.0	4.0	X	X				
GP 25 C	8	7/29/97	Soil	14.0	14.5	X	X				
GP 25 D	8	7/29/97	Soil	17.5	18.0	X	X				
GP 26 A	8	7/29/97	Soil	0.5	1.0	X	X				
GP 26 B	8	7/29/97	Soil	10.5	11.0	X	X				
GP 26 C	8	7/29/97	Soil	14.0	14.5	X	X				
GP 27 A	8	7/30/97	Soil	0.5	1.0	X	X				
GP 27 B	8	7/30/97	Soil	3.0	3.5	X	X				
GP 27 C	8	7/30/97	Soil	14.0	14.5	X	X				
GP 28 A	8	7/30/97	Soil	11.5	12.0	X	X				
GP 28 B	8	7/30/97	Soil	17.5	18.0	X	X				
GP 29 A	8	7/30/97	Soil	7.5	8.0	X	X				
GP 29 B	8	7/30/97	Soil	11.5	12.0	X	X				
GP 29 C	8	7/30/97	Soil	18.0	18.5	X	X				
GP 29 D	8	7/30/97	Soil	21.5	22.0	X	X				
GP 30 A	8	7/30/97	Soil	7.5	8.0	X	X				
GP 30 B	8	7/30/97	Soil	11.5	12.0	X	X				
GP 31 A	8	7/30/97	Soil	0.5	1.0	X	X				
GP 32 A	8	7/30/97	Soil	3.0	3.5	X	X				
GP 32 B	8	7/30/97	Soil	7.5	8.0	X	X				
GP 33 A	8	7/30/97	Soil	3.0	3.5	X	X				
GP 33 B	8	7/30/97	Soil	7.5	8.0	X	X				
GP 34 A	8	7/30/97	Soil	0.5	1.0	X	X				
GP 34 B	8	7/30/97	Soil	3.0	3.5	X	X				
GP 34 C	8	7/30/97	Soil	7.5	8.0	X	X				
GP 35 A	8 & 12	7/30/97	Soil	0.5	1.0	X			X		
GP 35 B	8 & 12	7/30/97	Soil	3.0	3.5	X	X				
GP 35 C	8 & 12	7/30/97	Soil	7.5	8.0	X	X				

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	BN+15	VO+10	PCBs	TAL Metals	PP Metals
GP 36 A	8	7/30/97	Soil	2.5	3.0	X	X				
GP 36 B	8	7/30/97	Soil	5.5	6.0	X	X				
GP 36 C	8	7/30/97	Soil	10.5	11.0	X	X				
GP 37 A	8	7/29/97	Soil	2.5	3.0	X	X				
GP 38 A	8	7/28/97	Soil	4.0	4.5	X	X				
GP 39 A	8	7/28/97	Soil	3.8	4.3	X	X				
GP 40 A	8	7/28/97	Soil	4.2	4.8	X	X				
GP 41 A	8	7/28/97	Soil	4.0	4.5	X	X				
GP 42 A	8	7/28/97	Soil	4.0	4.5	X	X				
GP 43 A	8	7/28/97	Soil	4.0	4.5	X	X				
GP 44 S1	11	7/31/97	Soil	0.5	1.0	X					
GP 44 S2	11	7/31/97	Soil	2.5	3.0	X					
GP 44 S3	11	7/31/97	Soil	4.0	4.5	X					
GP 45 S1	11	7/31/97	Soil	0.5	1.0	X					
GP 45 S2	11	7/31/97	Soil	2.5	3.0	X					
GP 45 S3	11	7/31/97	Soil	4.0	4.5	X					
GP 46 S1	11	7/31/97	Soil	0.5	1.0	X					
GP 46 S2	11	7/31/97	Soil	2.5	3.0	X					
GP 46 S3	11	7/31/97	Soil	4.0	4.5	X					
GP 47 S1	10	7/31/97	Soil	4.5	5.0			X			
GP 47 S2	10	7/31/97	Soil	5.0	6.0	X	X		X	X	
GP 48 S1	10	7/31/97	Soil	0.5	1.0			X			
GP 48 S2	10	7/31/97	Soil	4.5	5.0			X			
GP 48 S3	10	7/31/97	Soil	5.0	6.0	X	X		X	X	
GP 49 S1	10	7/31/97	Soil	4.5	5.0			X			
GP 49 S2	10	7/31/97	Soil	5.0	6.0	X	X		X	X	
GP 50 S1	10	7/31/97	Soil	0.5	1.0			X			
GP 50 S2	10	7/31/97	Soil	4.5	5.0			X			
GP 50 S3	10	7/31/97	Soil	5.0	6.0	X	X		X	X	
GP 51 S1	10	7/31/97	Soil	5.5	6.0			X			
GP 51 S2	10	7/31/97	Soil	6.0	6.5			X			
GP 51 S3	10	7/31/97	Soil	6.5	7.0	X	X		X	X	
GP 52 S1	10	7/31/97	Soil	5.0	5.5			X			
GP 52 S2	10	7/31/97	Soil	5.5	6.0	X	X		X	X	
GP 53 S1	10	7/31/97	Soil	5.0	5.5			X			

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	BN+15	VO+10	PCBs	TAL Metals	PP Metals
GP 53 S2	10	7/31/97	Soil	5.5	6.0	X	X		X	X	
GP 53 S3	10	7/31/97	Soil	6.0	6.5	X	X		X	X	
GP 54 S1	10	7/31/97	Soil	5.0	5.5			X			
GP 54 S2	10	7/31/97	Soil	5.5	6.0	X	X		X	X	
GP 55A S1	10	7/31/97	Soil	1.5	2.0			X			
GP 55B S1	10	7/31/97	Soil	1.5	2.0			X			
GP 55B S2	10	7/31/97	Soil	2.0	3.0	X	X		X	X	
GP 55B S3	10	7/31/97	Soil	7.0	7.5			X			
GP 55B S4	10	7/31/97	Soil	7.5	8.0	X	X		X	X	
GP 56 S1	10	7/31/97	Soil	1.5	2.0			X			
GP 56 S2	10	7/31/97	Soil	2.0	2.5	X	X		X	X	
GP 56 S3	10	7/31/97	Soil	7.0	7.5			X			
GP 56 S4	10	7/31/97	Soil	7.5	8.0	X	X		X	X	
GP 57 S1	10	7/31/97	Soil	7.0	7.5	X	X		X	X	
GP 57 S1	10	7/31/97	Soil	7.5	8.0			X			
GP 58 S1	10	7/31/97	Soil	1.5	2.0			X			
GP 58 S2	10	7/31/97	Soil	2.0	3.0	X	X		X	X	
GP 58 S3	10	7/31/97	Soil	7.0	7.5			X			
GP 58 S4	10	7/31/97	Soil	7.5	8.0	X	X		X	X	
GP 25	8 & 16	7/30/97	Grndwater				X	X			
GP 32	8 & 16	8/1/97	Grndwater				X	X			
GP 34	8 & 16	8/1/97	Grndwater				X	X			
GP 35	8 & 16	8/1/97	Grndwater				X	X			
A1	17	8/11/97	Soil	0.0	0.5	X	X	X	X	X	
A2	17	8/11/97	Soil	1.0	1.5	X	X	X	X	X	
B1	17	8/11/97	Soil	0.0	0.5	X	X	X	X	X	
B2	17	8/11/97	Soil	1.0	1.5	X	X	X	X	X	
Frac Tank	17	8/12/97	Water			X	X	X	X		X
Excavation	17	8/12/97	Water			X	X	X	X		X
A1 S1	11	4/27/98	Soil	3.5	4.0						
A1 S2	11	4/27/98	Soil	7.5	8.0						
A2 S1	11	4/27/98	Soil	3.5	4.0						
A2 S2	11	4/27/98	Soil	7.5	8.0						
A3 S1	11	4/27/98	Soil	3.5	4.0						
A3 S2	11	4/27/98	Soil	7.5	8.0						

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	BN+15	VO+10	PCBs	TAL Metals	PP Metals
A4 S1	11	4/27/98	Soil	3.5	4.0		X	X			
A4 S2	11	4/27/98	Soil	7.5	8.0		X	X			
A5 S1	11	4/27/98	Soil	3.5	4.0						
A5 S2	11	4/27/98	Soil	7.5	8.0						
A6 S1	11	4/27/98	Soil	3.5	4.0		X	X			
A6 S2	11	4/27/98	Soil	7.5	8.0		X	X			
A7 S1	11	4/27/98	Soil	3.5	4.0		X	X			
A7 S2	11	4/27/98	Soil	7.5	8.0		X	X			
A8 S1	11	4/27/98	Soil	3.5	4.0		X	X			
A8 S2	11	4/27/98	Soil	7.5	8.0		X	X			
FB 72897	8	7/28/97	Blank				X				
FB 72997	8	7/29/97	Blank				X				
FB 73097 GW	8	7/30/97	Blank				X	X			
TB 73097	8	7/30/97	Blank				X				
FB 8197 GW	8	8/1/97	Blank				X	X			
TB 8197	8	7/30/97	Blank				X				

Table 1
Remedial Investigation / Remedial action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses							
				Top	Bottom	TPHC	TOX	I/R/C	PCBs	8 RCRA Metals +	Radioactivity	PP+40	Full TCLP
PX 1 S1	8	9/26/97	Soil	0.5	1.0	X	X				X		
PX 2 S1	8	9/26/97	Soil	1.0	1.5	X	X		X	X	X		
PX 2 S2	8	9/26/97	Soil	4.0	4.5	X	X		X	X	X		
PX 3 S1	8	9/26/97	Soil	4.0	4.5	X	X				X		
PX 4 S1	8	9/26/97	Soil	4.0	4.5	X	X				X		
PX 4 S2	8	9/26/97	Soil	7.5	8.0	X	X		X	X	X		
PX 5 S1	8	9/26/97	Soil	4.0	4.5	X	X				X		
PX 5 S2	8	9/26/97	Soil	7.5	8.0	X	X				X		
PX 6 S1	8	9/26/97	Soil	1.5	2.0	X	X				X		
PX 6 S2	8	9/26/97	Soil	3.5	4.0	X	X				X		
PX 7 S1	8	9/26/97	Soil	0.5	1.0	X	X				X		
PX 7 S2	8	9/26/97	Soil	2.5	3.0	X	X				X		
PX 8 S1	8	9/26/97	Soil	0.5	1.0	X	X				X		
PX 8 S2	8	9/26/97	Soil	2.5	3.0	X	X				X		
PX 9 S1	8	9/26/97	Soil	0.5	1.0	X	X				X		
PX 9 S2	8	9/26/97	Soil	2.5	3.0	X	X				X		
PX 10 S1	8	9/26/97	Soil	0.5	1.0	X	X				X		
PX 11 S1	8	9/26/97	Soil	0.5	1.0	X	X	X	X	X	X		
PX 11 S2	8	9/26/97	Soil	1.5	2.0	X	X	X	X	X	X		
PX 12 S1	8	9/26/97	Soil	0.5	1.0	X	X						
PX 12 S2	8	9/26/97	Soil	1.5	2.0	X	X						
PX 13 S1	8	9/26/97	Soil	0.5	1.0	X	X						
PX 13 S2	8	9/26/97	Soil	1.5	2.0	X	X						
Sump 1	8	9/29/97	Water	Sump		X		X				X	
PX 14 S1	8	9/29/97	Soil	2.5	3.0	X	X	X	X	X	X		X
PX 14 S2	8	9/29/97	Soil	4.5	5.0	X	X	X	X	X	X		X
PX 15 S1	8	9/29/97	Soil	Tank		X	X	X	X	X	X		

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc.
Teterboro, N. J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	PP PAH	PP VOA	PP BN	PCBs	PP Metals
X 1 BE	8	10/28/97	Soil	20	20.5	X	X				
X 2 SNE	8	10/28/97	Soil	6	6.5	X	X				
X 3 BNE	8	10/28/97	Soil	21	21.5	X	X				
X 4 BC	8	10/28/97	Soil	20	20.5	X	X				
X 5 BC	8	10/28/97	Soil	21	21.5	X	X				
X 6 BC	8	10/28/97	Soil	20	20.5	X	X				
X 7 BC	8	10/28/97	Soil	20	20.5	X	X				
X 8 BNW	8	10/29/97	Soil	20	20.5	X	X				
X 9 BSW	8	10/29/97	Soil	20	20.5	X	X				
X 10 SS	8	10/29/97	Soil	14	14.5	X	X				
X 11 BSE	8	10/29/97	Soil	17	17.5	X	X				
X 12	8	10/29/97	Soil	6	6.5	X	X				
X 13	8	10/29/97	Soil	6	6.5	X	X				
X 14	8	10/29/97	Soil	5	5.5	X	X				
X 15	8	10/30/97	Soil	5	5.5	X	X				
X 16	8	10/30/97	Soil	4	4.5	X	X				
X 17	8	10/31/97	Soil	4	4.5	X	X				
G 1	8	10/30/97	Soil	2	2.5	X	X				
G 2	8	10/30/97	Soil	2	2.5	X	X				
X 18	8	10/31/97	Soil	6	6.5	X	X				
X 19	8	10/31/97	Soil	5	5.5	X	X				
X 20	8	10/31/97	Soil	5	5.5	X	X				
X 21	8	10/31/97	Soil	10	10.5	X	X				
X 22	8	10/31/97	Soil	5	5.5	X	X				
X 23	8	11/3/97	Soil	10	10.5	X	X				
X 24	8	11/3/97	Soil	5	5.5	X	X				
X 25	8	11/3/97	Soil	5	5.5	X	X				
X 26	8	11/4/97	Soil	5	5.5	X	X				
X 27	8	11/4/97	Soil	2	2.5	X	X				
X 27 B	8	11/4/97	Soil	5	5.5	X	X				
X 28	8	11/4/97	Soil	2	2.5	X	X				
X 28 B	8	11/4/97	Soil	5	5.5	X	X				
X 29	8	11/4/97	Soil	2	2.5	X	X				
X 29 B	8	11/4/97	Soil	5	5.5	X	X				
X 30	8	11/4/97	Soil	2.5	3	X	X				

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc.
Teterboro, N. J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	PP PAH	PP VOA	PP BN	PCBs	PP Metals
X 30 B	8	11/4/97	Soil	5	5.5	X	X				
X 31	8	11/4/97	Soil	+2	+1.5	X	X				
X 32	8	11/4/97	Soil	0	0.5	X	X				
X 33	8	11/4/97	Soil	4	4.5	X	X				
X 34	8	11/4/97	Soil	2	2.5	X	X				
X 34 B	8	11/4/97	Soil	5	5.5	X	X				
X 35	8	11/4/97	Soil	6	6.5	X	X				
X 36	8	11/4/97	Soil	6	6.5	X	X				
X 37	8	11/7/97	Soil	5	5.5	X	X				
X 38	8	11/7/97	Soil	8	8.5	X	X				
X 39	8	11/7/97	Soil	4	4.5	X	X				
X 40	8	11/7/97	Soil	4	4.5	X	X				
X 41	8	11/7/97	Soil	8	8.5	X	X				
X 42	8	11/7/97	Soil	8	8.5	X	X				
X 43	8	11/7/97	Soil	2	2.5	X	X	X	X	X	X
X 44	8	11/7/97	Soil	5	5.5	X	X	X	X	X	X
X 45	8	11/7/97	Soil	6	6.5	X	X	X	X	X	X
X 46	8	11/7/97	Soil	3	3.5	X	X	X	X	X	X
X 47	8	11/7/97	Soil	3	3.5	X	X	X	X	X	X
X 48	8	11/7/97	Soil	6	6.5	X	X	X	X	X	X
X 49	8	11/7/97	Soil	6	6.5	X	X				
FB 11797	8	11/7/97	Blank					X			
X 50 A	8	11/14/97	Soil	0.5	1	X	X				
X 50 B	8	11/14/97	Soil	2	2.5	X	X				
X 51 A	8	11/14/97	Soil	0.5	1	X	X				
X 51 B	8	11/14/97	Soil	2	2.5	X	X				
X 52 A	8	11/14/97	Soil	0.5	1	X	X				
X 52 B	8	11/14/97	Soil	2	2.5	X	X				
X 53 A	8	11/14/97	Soil	0.5	1	X	X				
X 53 B	8	11/14/97	Soil	2	2.5	X	X				
X 54	8	11/20/97	Soil	10	10.5	X	X				
X 55	8	11/20/97	Soil	3	3.5	X	X				
X 56	8	11/20/97	Soil	8	8.5	X	X				
X 57	8	11/20/97	Soil	8	8.5	X	X				
X 58	8	11/20/97	Soil	8	8.5	X	X				

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc.
Teterboro, N. J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses					
				Top	Bottom	TPHC	PP PAH	PP VOA	PP BN	PCBs	PP Metals
X 59	8	11/20/97	Soil	2.25	2.75	X	X				
X 60	8	11/20/97	Soil	5	5.5	X	X				
X 61	8	11/20/97	Soil	3	3.5	X	X				
X 62	8	11/20/97	Soil	4	4.5	X	X				
X 63	8	11/20/97	Soil	4	4.5	X	X				
X 64	8	11/20/97	Soil	4	4.5	X	X				
X 65	8	11/21/97	Soil	3	3.5	X	X				
X 66	8	11/21/97	Soil	3.5	4	X	X				

Table 1
Remedial Investigation / Remedial Action Sample Summary
Florasynth, Inc. Teterboro, N.J.

Sample ID	AOC	Date	Matrix	Depth		Sample Analyses							
				Top	Bottom	VO+10	Lead	TOX	I/R/C	PCBs	Radioactivity	8 RCRA Metals +	TPHC
TB 6198	18	6/1/98	Blank			X							
UST 1	18	6/3/98	Soil	10	10.5	X	X						
UST 2	18	6/3/98	Soil	10	10.5	X	X						
UST 3	18	6/3/98	Soil	10.5	11	X	X						
UST 4	18	6/3/98	Soil	11	11.5	X	X						
UST 5	18	6/3/98	Soil	10	10.5	X	X						
UST 6	18	6/3/98	Soil	10	10.5	X	X						
UST 7	18	6/3/98	Soil	10	10.5	X	X						
UST 8	18	6/4/98	Soil	10	10.5	X	X						
UST 9	18	6/4/98	Soil	10	10.5	X	X						
UST 10	18	6/4/98	Soil	10	10.5	X	X						
UST 11	18	6/4/98	Soil	10	10.5	X	X						
UST 12	18	6/4/98	Soil	10	10.5	X	X						
UST 13	18	6/4/98	Soil	10	10.5	X	X						
UST 14	18	6/4/98	Soil	10	10.5	X	X						
UST 15	18	6/4/98	Soil	8.5	9	X	X						
Stockpile 1	18	6/4/98	Soil	Composite					X	X	X	X	
Stockpile 2	18	6/4/98	Soil	Grab				X					X
Stockpile 3	18	6/4/98	Soil	Grab				X					X
Stockpile 4	18	6/4/98	Soil	Grab				X					X
Stockpile 5	18	6/4/98	Soil	Grab				X					X
Stockpile 6	18	6/4/98	Soil	Grab				X					X

Table 2 (Page 1 of 3)
Historic Laboratory Analysis Data
June 13-14, 1995 and October 19, 1995
Florasynth Inc.
Teterboro, New Jersey

All data reported in ppm (mg/kg).

	Near Butter Room						Lemon Room			Near Lunchroom
Sample ID	**GP-1**	**GP-1**	**GP-2**	**GP-3**	**GP-4**	**GP-5**	**GP-6**	**GP-7**	**GP-22**	**GP-10**
Lab ID	**12023-001**	**12023-002**	**12023-003**	**12023-004**	**12023-005**	**12023-006**	**12023-007**	**12023-008**	**54409-010**	**12023-012**
Sample Date	6/13/95	6/13/95	6/13/95	6/13/95	6/13/95	6/13/95	6/13/95	6/13/95	10/19/95	6/14/95
Sample Depth (ft.)	2.5-3.0	5.0-5.5	2.5-3.0	2.5-3.0	3.0-3.5	3.0-3.5	6.0-6.5	3.5-4.0	6.0-6.5	2.5-3.0
TRPH	6,400	ND/63	ND/68	650	710	6200	12,000	ND/63	29	6200
CaPAHs										
Napthalene	0.24	ND/0.025	ND/0.027	0.190J	ND/0.026	1.6	ND/1.3	ND/0.025	NA	1.1
Fluorene	0.29	ND/0.025	ND/0.027	0.080J	0.240J	0.47	ND/1.3	ND/0.025	NA	1.25
Phenanthrene	0.63	ND/0.025	ND/0.027	0.250J	0.670J	1	ND/1.3	ND/0.025	NA	4.2
Anthracene	0.041	ND/0.025	ND/0.027	ND/0.028	ND/0.026	ND/0.026	ND/1.3	ND/0.025	NA	ND/2.6
Pyrene	0.094	ND/0.025	ND/0.027	ND/0.028	ND/0.026	ND/0.026	ND/1.3	ND/0.025	NA	ND/2.6
Chrysene	ND/0.026	ND/0.025	ND/0.027	ND/0.028	ND/0.026	0.220J	ND/1.3	ND/0.025	NA	ND/2.6

ND/10 Not detected. Concentration reported as less than method detection limit.
NA Not analyzed.
TRPH Total Recoverable Petroleum Hydrocarbons
CaPAHs Carcinogenic Polynuclear Aromatic Hydrocarbons

From: Site Investigation Report
Florasynth, Inc.
Prepared by McLaren Hart

Table 2 (Page 2 of 3)
Historic Laboratory Analysis Data
June 13-14, 1995 and October 19, 1995
Florasynth Inc.
Teterboro, New Jersey

All data reported in ppm (mg/kg).

	Boiler Room Storage Area								
Sample ID	**GP-14**	**GP-14**	**GP-15**	**GP-15**	**GP-18**	**GP-18**	**GP-19**	**GP-19**	**GP-20**
Lab ID	**12023-019**	**12023-020**	**12023-021**	**12023-022**	**54409-003**	**54409-004**	**54409-005**	**54409-006**	**54409-008**
Sample Date	6/14/95	6/14/95	6/14/95	6/14/95	10/19/95	10/19/95	10/19/95	10/19/95	10/19/95
Sample Depth (ft.)	5.0-5.5	7.5-8.0	3.0-3.5	7.5-8.0	2.5-3.0	7.5-8.0	2.5-3.0	7.5-8.0	2.5-3.0
TRPH	280	ND/62	40,000	ND/72	14	21	5,000	40	13
CaPAHs									
Napthalene	ND/0.026	ND/0.025	ND/5.0	ND/0.028	NA	NA	4.1	NA	NA
Fluorene	ND/0.026	ND/0.025	ND/5.0	ND/0.028	NA	NA	2.1	NA	NA
Phenanthrene	ND/0.026	ND/0.025	ND/5.0	1.8	NA	NA	2.4	NA	NA
Anthracene	ND/0.026	ND/0.025	ND/5.0	ND/0.028	NA	NA	0.21 J	NA	NA
Pyrene	ND/0.026	ND/0.025	ND/5.0	ND/0.028	NA	NA	0.92 J	NA	NA
Chrysene	ND/0.026	ND/0.025	ND/5.0	ND/0.028	NA	NA	0.61	NA	NA

ND/10	Not detected. Concentration reported as less than method detection limit.
NA	Not analyzed.
TRPH	Total Recoverable Petroleum Hydrocarbons
CaPAHs	Carcinogenic Polynuclear Aromatic Hydrocarbons

From: Site Investigation Report
Florasynth, Inc.
Prepared by McLaren Hart

Table 2 (Page 3 of 3)
Historic Laboratory Analysis Data
June 13-14, 1995 and October 19, 1995
Florasynth Inc.
Teterboro, New Jersey

All data reported in ppm (mg/kg).

	Warehouse		Outside Boiler Room			Next to Lemon Room in Parking Lot		QA/QC Samples			
Sample ID	GP-8	GP-9	GP-17	GP-17	GP-21	GP-16	GP-16	FB-02	TB-02	FB101995	FB-01
Lab ID	12023-010	12023-011	54409-001	54409-002	54409-009	12023-023	12023-024	12023-025	12023-026	54409-007	12023-009
Sample Date	6/14/95	6/14/95	10/19/95	10/19/95	10/19/95	6/14/95	6/14/95	6/14/95	6/14/95	10/19/95	6/13/95
Sample Depth (ft.)	7.0-7.5	7.0-7.5	2.5-3.0	7.5-8.0	2.5-3.0	3.0-3.5	7.5-8.0	-	-	-	-
TRPH	ND/60	ND/61	1,700	91	730	ND/66	ND/71	ND/2.0	NA	ND/1.3	ND/2.0
CaPAHs											
Napthalene	ND/0.024	ND/0.024	0.120 J	NA	ND/0.35	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001
Fluorene	ND/0.024	ND/0.024	ND/0.430	NA	ND/0.35	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001
Phenanthrene	ND/0.024	ND/0.024	0.180 J	NA	ND/0.35	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001
Anthracene	ND/0.024	ND/0.024	ND/0.430	NA	ND/0.35	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001
Pyrene	ND/0.024	ND/0.024	0.180 J	NA	0.058 J	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001
Chrysene	ND/0.024	ND/0.024	ND/0.430	NA	0.036 J	ND/0.026	ND/0.028	ND/0.0001	NA	NA	ND/0.0001

ND/10 Not detected. Concentration reported as less than method detection limit.
NA Not analyzed.
TRPH Total Recoverable Petroleum Hydrocarbons
CaPAHs Carcinogenic Polynuclear Aromatic Hydrocarbons

From: Site Investigation Report
Florasynth, Inc.
Prepared by McLaren Hart

Table 3
Remedial Investigation Soil Sampling Data
(AOC #8) 20,000-Gallon UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP23A	GP23B	GP23C	GP24A	GP24B	GP24C	GP25A	GP25B	GP25C
Lab Sample Number	14084	14085	14086	14087	14088	14089	14090	14091	14092
Sampling Date	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Depth	2.5-3.0'	14.0-14.5'	17.5-18.0'	0.5-1.0'	2.0-4.0'	17.5-18.0	0.5-1.0'	2.0-4.0	14.0-14.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	5	1	1	5	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg
TPHC (418.1)	293	25 U	25 U	2000	37.5	37.4	1960	54.9	25 U

Sample ID	GP23A	GP23B	GP23C	GP24A	GP24B	GP24C	GP25A	GP25B	GP25C
Lab Sample Number	14084	14085	14086	14087	14088	14089	14090	14091	14092
Sampling Date	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97	7/29/97
Depth	2.5-3.0'	14.0-14.5'	17.5-18.0'	0.5-1.0'	2.0-4.0'	17.5-18.0	0.5-1.0'	2.0-4.0	14.0-14.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	2	1	1	5	1	1	10	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	97	21 U	22 U	510	20 U	22 U	1200	58	21 U
Dimethylphthalate	18 J	420 U	440 U	2200 U	410 U	430 U	4100 U	430 U	430 U
Acenaphthylene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	22 U	21 U
Acenaphthene	140	21 U	22 U	310	20 U	15 J	540	140	21 U
2,4-Dinitrotoluene	61 J	420 U	440 U	2200 U	410 U	430 U	4100 U	430 U	430 U
Fluorene	250	21 U	22 U	190	20 U	16 J	500	170	21 U
Phenanthrene	340	21 U	22 U	240	20 U	51	950	430	20 J
Anthracene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	22	21 U
Fluoranthene	55	21 U	22 U	96 J	20 U	22 U	200 J	56	21 U
Pyrene	81	21 U	22 U	260	20 U	18 J	360	85	21 U
Benzo(a)anthracene	120	21 U	22 U	330	20 U	22 U	200 U	61	21 U
Chrysene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	34	21 U
bis(2-Ethylhexyl)phthalate	850 U	420 U	440 U	620 J	410 U	430 U	4100 U	160 J	430 U
Di-n-octylphthalate	850 U	420 U	440 U	2200 U	410 U	430 U	4100 U	430 U	430 U
Benzo(b)fluoranthene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	14 J	21 U
Benzo(a)pyrene	42 U	21 U	22 U	55 J	20 U	22 U	200 U	22 U	21 U
Indeno(1,2,3-cd)pyrene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	22 U	21 U
Dibenz(a,h)anthracene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	22 U	21 U
Benzo(g,h,i)perylene	42 U	21 U	22 U	110 U	20 U	22 U	200 U	22 U	21 U
Tot. Confident Conc. BNAs	1083	0	0	1840	0	51	3550	1056	0
Tot. Est. Conc. BNA TICs	62200	0	0	85000	600	560	180600	25740	1010

Table 3
Remedial Investigation Soil Sampling Data
(AOC #8) 20,000-Gallon UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP25D	GP26A	GP26B	GP26C	GP27A	GP27B	GP27C	GP28A	GP28B
Lab Sample Number	14093	14094	14095	14096	14713	14714	14715	14737	14738
Sampling Date	7/29/97	7/29/97	7/29/97	7/29/97	7/30/97	7/30/97	7/30/97	7/31/97	7/31/97
Depth	17.5-18.0	0.5-1.0'	10.5-11.0'	14.0-14.5'	0.5-1.0'	3.0-3.5'	14.0-14.5'	11.5-12.0'	17.5-18.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	25 U	1490	739	143	3900	105	103	27.2	25 U

Sample ID	GP25D	GP26A	GP26B	GP26C	GP27A	GP27B	GP27C	GP28A	GP28B
Lab Sample Number	14093	14094	14095	14096	14713	14714	14715	14737	14738
Sampling Date	7/29/97	7/29/97	7/29/97	7/29/97	7/30/97	7/30/97	7/30/97	7/31/97	7/31/97
Depth	17.5-18.0	0.5-1.0'	10.5-11.0'	14.0-14.5'	0.5-1.0'	3.0-3.5'	14.0-14.5'	11.5-12.0'	17.5-18.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	5	2	1	10	2	2	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	21 U	1400	49	21 U	1400	1500	1600	13 J	22 U
Dimethylphthalate	430 U	2200 U	790 U	420 U	4300 U	860 U	850 U	410 U	440 U
Acenaphthylene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Acenaphthene	21 U	670	260	21 U	220 U	43 U	290	21 U	22 U
2,4-Dinitrotoluene	430 U	2200 U	790 U	420 U	4300 U	860 U	850 U	410 U	440 U
Fluorene	21 U	1000	71	21 U	420	43 U	550	21 U	22 U
Phenanthrene	21 U	2100	920	22	700	930	1100	21 U	22 U
Anthracene	21 U	110 U	27 J	21 U	220 U	43 U	42 U	21 U	22 U
Fluoranthene	21 U	140	55	21 U	160 J	43 U	88	13 J	22 U
Pyrene	21 U	290	120	21 U	560	160	240	9.9 J	22 U
Benzo(a)anthracene	21 U	110 U	100	21 U	220 U	43 U	140	21 U	22 U
Chrysene	21 U	110 U	80	21 U	220 U	43 U	88	21 U	22 U
bis(2-Ethylhexyl)phthalate	430 U	2200 U	790 U	420 U	4300 U	190 J	910	200 J	200 J
Benzo(b)fluoranthene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Benzo(a)pyrene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Indeno(1,2,3-cd)pyrene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Dibenz(a,h)anthracene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Benzo(g,h,i)perylene	21 U	110 U	40 U	21 U	220 U	43 U	42 U	21 U	22 U
Tot. Confident Conc. BNAs	0	5600	1655	22	3080	2590	5006	0	0
Tot. Est. Conc. BNA TICs	0	147200	37600	1680	171200	75600	88300	2040	0

Table 3
Remedial Investigation Soil Sampling Data
(AOC #8) 20,000-Gallon UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP29A	GP29B	GP29C	GP29D	GP30A	GP30B	GP31A	GP32A	GP32B
Lab Sample Number	14733	14734	14735	14736	14731	14732	14716	14720	14721
Sampling Date	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97
Depth	7.5-8.0'	11.5-12.0'	18.0-18.5'	21.5-22.0'	7.5-8.0'	11.5-12.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	31900	66.3	3440	25 U	17200	11300	2860	25 U	25 U

Sample ID	GP29A	GP29B	GP29C	GP29D	GP30A	GP30B	GP31A	GP32A	GP32B
Lab Sample Number	14733	14734	14735	14736	14731	14732	14716	14720	14721
Sampling Date	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/30/97	7/30/97	7/30/97
Depth	7.5-8.0'	11.5-12.0'	18.0-18.5'	21.5-22.0'	7.5-8.0'	11.5-12.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	50	1	5	1	25	25	5	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	650 J	55	180	22 U	1700	930	1200	21 U	20 U
Dimethylphthalate	20000 U	420 U	2000 U	430 U	11000 U	10000 U	2100 U	420 U	410 U
Acenaphthylene	1000 U	21 U	100 U	22 U	530 U	510 U	100 U	21 U	20 U
Acenaphthene	1000 U	21 U	100 U	22 U	530 U	510 U	580	21 U	20 U
2,4-Dinitrotoluene	20000 U	420 U	2000 U	430 U	11000 U	10000 U	2100 U	420 U	410 U
Fluorene	1000 U	100	100 U	22 U	530 U	510 U	810	21 U	20 U
Phenanthrene	1600	84	580	22 U	2400	1400	1300	21 U	20 U
Anthracene	580 J	21 U	76 J	22 U	530 U	510 U	100 U	21 U	20 U
Fluoranthene	1200	21 U	480	22 U	530 U	570	270	21 U	20 U
Pyrene	4000	76	850	22 U	1400	1500	440	21 U	20 U
Benzo(a)anthracene	680 J	21 U	240	22 U	530 U	510 U	230	21 U	20 U
Chrysene	740 J	21 U	190	22 U	530 U	510 U	250	21 U	20 U
bis(2-Ethylhexyl)phthalate	20000 U	590	1500 J	430 U	11000 U	10000 U	2100 U	420 U	430
Benzo(b)fluoranthene	1000 U	21 U	340	22 U	530 U	510 U	100 U	21 U	20 U
Benzo(a)pyrene	1000 U	21 U	200	22 U	530 U	510 U	100 U	21 U	20 U
Indeno(1,2,3-cd)pyrene	1000 U	21 U	220	22 U	530 U	510 U	100 U	21 U	20 U
Dibenz(a,h)anthracene	1000 U	21 U	100 U	22 U	530 U	510 U	100 U	21 U	20 U
Benzo(g,h,i)perylene	1000 U	21 U	250	22 U	530 U	510 U	100 U	21 U	20 U
Tot. Confident Conc. BNAs	6800	905	3530	0	5500	4400	5080	0	430
Tot. Est. Conc. BNA TICs	937000	25100	177700	0	577000	523000	152500	590	560

Table 3
Remedial Investigation Soil Sampling Data
(AOC #8) 20,000-Gallon UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP33A	GP33B	GP34A	GP34B	GP34C	GP35A	GP35B	GP35C	GP36A
Lab Sample Number	14722	14723	14717	14718	14719	14724	14725	14726	14728
Sampling Date	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97
Depth	3.0-3.5'	7.5-8.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'	2.5-3.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	25 U	25 U	107	326	25 U	44	2630	2790	25 U

Sample ID	GP33A	GP33B	GP34A	GP34B	GP34C	GP35A	GP35B	GP35C	GP36A
Lab Sample Number	14722	14723	14717	14718	14719	14724	14725	14726	14728
Sampling Date	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97	7/30/97
Depth	3.0-3.5'	7.5-8.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'	0.5-1.0'	3.0-3.5'	7.5-8.0'	2.5-3.0'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1		5	5	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	20 U	21 U	13 J	20 U	20 U	N	100 U	100 U	19 U
Dimethylphthalate	390 U	420 U	460 U	400 U	410 U	N	2000 U	2000 U	380 U
Acenaphthylene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	34
Acenaphthene	20 U	21 U	34	20 U	20 U	N	100 U	100 U	19 U
2,4-Dinitrotoluene	390 U	420 U	460 U	400 U	410 U	N	2000 U	2000 U	380 U
Fluorene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	19 U
Phenanthrene	20 U	21 U	44	20 U	20 U	N	260	310	83
Anthracene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	37
Fluoranthene	20 U	21 U	82	42	20 U	N	100 U	100 U	260
Pyrene	20 U	21 U	91	45	20 U	N	280	340	250
Benzo(a)anthracene	20 U	21 U	50	20 U	20 U	N	100 U	100 U	140
Chrysene	20 U	21 U	58	20 U	20 U	N	100 U	100 U	120
bis(2-Ethylhexyl)phthalate	440	460	420 J	190 J	460	N	2000 U	1600 J	340 J
Di-n-octylphthalate	390 U	420 U	460 U	400 U	410 U	N	2000 U	2000 U	380 U
Benzo(b)fluoranthene	20 U	21 U	36	20 U	20 U	N	100 U	100 U	180
Benzo(a)pyrene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	140
Indeno(1,2,3-cd)pyrene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	89
Dibenz(a,h)anthracene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	19 U
Benzo(g,h,i)perylene	20 U	21 U	23 U	20 U	20 U	N	100 U	100 U	97
Tot. Confident Conc. BNAs	440	460	395	87	460		540	650	1530
Tot. Est. Conc. BNA TICs	530	0	11300	5400	0		101800	126000	790

Table 3
Remedial Investigation Soil Sampling Data
(AOC #8) 20,000-Gallon UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP36B	GP36C	GP37A	GP38A	GP39A	GP40A	GP41A	GP42A	GP43A
Lab Sample Number	14729	14730	14083	14082	14080	14076	14077	14078	14079
Sampling Date	7/30/97	7/31/97	7/29/97	7/28/97	7/28/97	7/28/97	7/28/97	7/28/97	7/28/97
Depth	5.5-6.0	10.5-11.0	2.5-3.0'	4.0-4.5'	3.8-4.3'	4.2-4.8'	4.0-4.5'	4.0-4.5'	4.0-4.5'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA	NA	1	1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	25 U	25 U	241	25 U	25 U	25 U	25 U	25 U	25 U

Sample ID	GP36B	GP36C	GP37A	GP38A	GP39A	GP40A	GP41A	GP42A	GP43A
Lab Sample Number	14729	14730	14083	14082	14080	14076	14077	14078	14079
Sampling Date	7/30/97	7/31/97	7/29/97	7/28/97	7/28/97	7/28/97	7/28/97	7/28/97	7/28/97
Depth	5.5-6.0	10.5-11.0	2.5-3.0'	4.0-4.5'	3.8-4.3'	4.2-4.8'	4.0-4.5'	4.0-4.5'	4.0-4.5'
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1	1	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	13 J	20 U	21 U	22 U	22 U	22 U	22 U	47	23 U
Dimethylphthalate	420 U	400 U	420 U	430 U	450 U	440 U	440 U	460 U	460 U
Acenaphthylene	21 U	20 U	21 U	40	14 J	22 U	22 U	18 J	350
Acenaphthene	21 U	20 U	21 U	30	29	22 U	22 U	85	110
2,4-Dinitrotoluene	420 U	400 U	420 U	430 U	450 U	440 U	440 U	460 U	460 U
Fluorene	21 U	20 U	21 U	22 U	17 J	22 U	22 U	84	92
Phenanthrene	28	19 J	30	260	220	18 J	81	950	1100
Anthracene	21 U	20 U	9.7 J	60	35	22 U	22 U	130	330
Fluoranthene	53	22	46	410	260	39	150	1000	3400
Pyrene	48	24	50	400	280	29	100	800	2300
Benzo(a)anthracene	32	20 U	40	260	140	26	69	380	1400
Chrysene	26	20 U	30	260	140	13 J	54	440	1500
bis(2-Ethylhexyl)phthalate	420 U	3600	420 U	430 U	450 U	160 J	440 U	460 U	240 J
Benzo(b)fluoranthene	26	20 U	35	360	190	22 U	49	540	2300
Benzo(a)pyrene	19 J	20 U	21 U	260	130	22 U	22 U	400	1600
Indeno(1,2,3-cd)pyrene	21 U	20 U	21 U	180	99	22 U	22 U	330	580
Dibenz(a,h)anthracene	21 U	20 U	21 U	22 U	22 U	22 U	22 U	23 U	160
Benzo(g,h,i)perylene	21 U	20 U	21 U	160	86	22 U	22 U	320	400
Tot. Confident Conc. BNAs	236	3646	231	2830	1683	94	531	5736	16542
Tot. Est. Conc. BNA TICs	11320	0	730	8930	8790	2840	0	8510	13080

Table 4
Pre-Excavation Soil Analytical Data Summary
(AOC #8) UST and Building Demolition Area
Florasynth, Inc. Teterboro, New Jersey

Sample No. Depth (Feet)		PX1, S1 0.5-1.0	PX2, S1 1.0-1.5	PX2, S2 4.0-4.5	PX3, S1 4.0-4.5	PX4, S1 4.0-4.5	PX4, S2 7.5-8.0	PX5, S1 4.0-4.5	PX5, S2 7.5-8.0
Parameter	**Units**								
TPHC	mg/kg	204	486	187	347	526	160	307	1460
% Moisture	%	21	20.4	20.9	21.7	20.5	18.2	20.5	19.9
TOX	mg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Sample No. Depth (Feet)		PX6, S1 1.5-2.0	PX6, S2 3.5-4.0	PX7, S1 0.5-1.0	PX7, S2 2.5-3.0	PX8, S1 0.5-1.0	PX8, S2 2.5-3.0	PX9, S1 0.5-1.0	PX9, S2 2.5-3.0
Parameter	**Units**								
TPHC	mg/kg	9830	20200	142	<25	54.5	39.8	807	<25
% Moisture	%	23.8	23.9	0.3	0.7	0.8	0.5	1.3	0.7
TOX	mg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Sample No. Depth (Feet)		PX10, S1 0.5-1.0	PX11, S1 0.5-1.0	PX11, S2 1.5-2.0	PX12, S1 0.5-1.0	PX12, S2 1.5-2.0	PX13, S1 0.5-1.0	PX13, S2 1.5-2.0	PX15, Tank 4.5-5.0
Parameter	**Units**								
TPHC	mg/kg	139	36	<25	547	<25	534	<25	26100
% Moisture	%	0.6	0.5	1	0.4	0.5	0.5	0.6	28.9
TOX	mg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0

Table 4
Pre-Excavation Soil Analytical Data Summary
(AOC #8) UST and Building Demolition Area
Florasynth, Inc. Teterboro, New Jersey

Sample No. Depth (Feet)		PX2, S1 1.0-1.5	PX2, S2 4.0-4.5	PX4, S2 7.5-8.0	PX11, S1 0.5-1.0	PX11, S2 1.5-2.0	PX15, Tank 4.5-5.0
Parameter	**Units**						
Corrosivity	pH: Std.	7.94	7.13	8.1	11.23	8.89	6.42
Sulfide Reactivity	mg/kg	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
CN Reactivity	mg/kg	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ignitability	Deg. F	>160	>160	>160	>160	>160	>160
Radioactivity	CPM	5-7	5-7	5-7	5-7	5-7	5-7
PCB's	**Units**						
Arochlor-1016	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1221	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1232	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1242	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1248	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1254	ug/kg	<84	<85	<82	<67	<68	<94
Arochlor-1260	ug/kg	<84	<85	<82	<67	<68	<94
Total Metals	**Units**						
Arsenic	mg/kg	13.9	6.3	9	0.059	<0.59	15.5
Barium	mg/kg	144	122	93.4	42.8	0.3	68.6
Cadmium	mg/kg	<0.050	<0.051	<0.049	0.09	<0.040	<0.056
Chromium	mg/kg	23.1	22.3	21.8	16.3	<0.18	17.3
Copper	mg/kg	26.1	22.9	23.1	2430	<0.40	123
Lead	mg/kg	59.2	25	21	33.2	2.3	931
Mercury	mg/kg	0.09	<0.063	<0.061	<0.050	<0.051	<0.070
Nickel	mg/kg	28.9	27.2	27.3	7.1	3.6	24.2
Selenium	mg/kg	<0.93	<0.94	<0.90	<0.74	<0.75	<1.0
Silver	mg/kg	<0.20	<0.20	<0.20	0.2	0.16	0.28
Zinc	mg/kg	160	64	67.8	41	1.6	168

Table 4
Pre-Excavation Soil Sample Analytical Summary
(AOC #8) UST and Building Demolition Area
Florasynth, Inc. Teterboro, New Jersey

Sample No. Depth (Feet)		PX14,S1 2.5-3.0		PX14, S2 4.5-5.0	
Parameter	**Units**				
TPHC	mg/kg		28.2		39.6
% Moisture	%		20.4		28.9
TOX	mg/kg	<	25.0	<	25.0
Corrosivity	pH: Std.		7.38		7.01
Sulfide Reactivity	mg/kg	<	20.0	<	20.0
CN Reactivity	mg/kg	<	25.0	<	25.0
Ignitability	Deg. F	>	160	>	160
Radioactivity	CPM		5-7		5-7
PCB's	**Units**				
Arochlor-1016	ug/kg	<	84	<	81
Arochlor-1221	ug/kg	<	84	<	81
Arochlor-1232	ug/kg	<	84	<	81
Arochlor-1242	ug/kg	<	84	<	81
Arochlor-1248	ug/kg	<	84	<	81
Arochlor-1254	ug/kg	<	84	<	81
Arochlor-1260	ug/kg	<	84	<	81
Total Metals	**Units**				
Arsenic	mg/kg		15.1		4.7
Barium	mg/kg		150		141
Cadmium	mg/kg	<	0.050		0.048
Chromium	mg/kg		23.5		25.4
Copper	mg/kg		33.4		26.6
Lead	mg/kg		55.9		19.2
Mercury	mg/kg		0.06		0.061
Nickel	mg/kg		27.8		33.3
Selenium	mg/kg	<	0.93		0.90
Silver	mg/kg	<	0.20		0.19
Zinc	mg/kg		75.8		74.5
TCLP Volatile Organics					
Vinyl Chloride	ug/l	<	1.0	<	1.0
1,1-Dichloroethene	ug/l	<	1.0	<	1.0
Chloroform	ug/l	<	1.0	<	1.0
1,2-Dichloroethane	ug/l	<	1.0	<	1.0
2-Butanone	ug/l	<	5.0	<	1.0
Carbon Tetrachloride	ug/l	<	1.0	<	1.0
Trichloroethene	ug/l	<	1.0	<	1.0
Benzene	ug/l	<	1.0	<	1.0
Tetrachloroethane	ug/l	<	1.0	<	1.0
Chlorobenzene	ug/l	<	1.0	<	1.0

Table 4
Pre-Excavation Soil Sample Analytical Summary
(AOC #8) UST and Building Demolition Area
Florasynth, Inc. Teterboro, New Jersey

Sample No. Depth (Feet)		PX14,S1 2.5-3.0		PX14, S2 4.5-5.0	
Parameter	**Units**				
TCLP Semi-Volatile Organics					
2-Methylphenol	ug/l	<	40	<	40
4-Methylphenol	ug/l	<	40	<	40
2,4,6-Trichlorophenol	ug/l	<	40	<	40
2,4,5-Trichlorophenol	ug/l	<	40	<	40
Pentachlorophenol	ug/l	<	40	<	40
1,4-Dichlorobenzene	ug/l	<	40	<	40
Hexachloroethane	ug/l	<	40	<	40
Nitrobenzene	ug/l	<	40	<	40
Hexachlorobutadiene	ug/l	<	40	<	40
2,4-Dinitrotoluene	ug/l	<	40	<	40
Hexachlorobenzene	ug/l	<	40	<	40
Pyridine	ug/l	<	40	<	40
TCLP Pesticides					
2,4-D	mg/l	<	0.008	<	0.008
2,4,5-TP	mg/l	<	0.008	<	0.008
2,4,5-TP	mg/l	<	0.008	<	0.008
gamma-BHC	mg/l	<	0.001	<	0.001
Chlorodane	mg/l	<	0.01	<	0.01
Endrin	mg/l	<	0.001	<	0.001
Heptachlor	mg/l	<	0.001	<	0.001
Heptachlor epoxide	mg/l	<	0.001	<	0.001
Methoxychlor	mg/l	<	0.001	<	0.001
Toxaphene	mg/l	<	0.01	<	0.01
TCLP Metals					
Arsenic	mg/l	<	0.12	<	0.12
Barium	mg/l		0.81		0.65
Cadmium	mg/l	<	0.0036	<	0.0036
Chromium	mg/l	<	0.011	<	0.011
Lead	mg/l	<	0.067		0.067
Mercury	mg/l	<	0.00010	<	0.00010
Selenium	mg/l		0.10	<	0.092
Silver	mg/l	<	0.013		0.01

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) Former 20,000 Gallon Fuel Oil UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X1BE-20	X2SNE-6	X3BNE-21	X4BC-20	X5BC-21	X6BC-20
Lab Sample Number	28754	28755	28756	28757	28758	28759
Sampling Date	10/28/97	10/28/97	10/28/97	10/28/97	10/28/97	10/28/97
Depth	20-20.5	6-6.5	21-21.5	20-20.5	21-21.5	20-20.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	25 U	25 U	25 U	25 U	25 U	25 U

Sample ID	X7BC-20	X8BNW-20	X9BSW-20	X10SS-14	X11-BSE-17
Lab Sample Number	28760	28761	28762	28763	29094
Sampling Date	10/28/97	10/29/97	10/29/97	10/29/97	10/29/97
Depth	20-20.5	20-20.5	20-20.5	14-14.5	17-17.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	25 U	25 U	79.6	25 U	25 U

Qualifiers

J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
U - Not detected.
NR - Not analyzed.

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) South of UST Excavation Area
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X12-6	X13-6	X14-5	X15-5	X37-5	X38-8	X39-4	X40-4	X42-8
Lab Sample Number	29095	29096	29097	29098	30331	30332	30333	30334	30336
Sampling Date	10/29/97	10/29/97	10/29/97	10/30/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97
Depth	6-6.5	6-6.5	5-5.5	5-5.5	5-5.5	8-8.5	4-4.5	4-4.5	8-8.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	5	1	1	1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	2320	245	25 U	25 U	1530	384	1300	1190	25 U

Sample ID	X12-6	X13-6	X14-5	X15-5	X37-5	X38-8	X39-4	X40-4	X42-8
Lab Sample Number	29095	29096	29097	29098	30331	30332	30333	30334	30336
Sampling Date	10/29/97	10/29/97	10/29/97	10/30/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97
Depth	6-6.5	6-6.5	5-5.5	5-5.5	5-5.5	8-8.5	4-4.5	4-4.5	8-8.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	2	1			1	1	1	1	
Units	ug/kg	ug/kg			ug/kg	ug/kg	ug/kg	ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	42 U	21 U		NR		NR	20 U	21 U	20 U	17 J		NR
Acenaphthylene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Acenaphthene	150	21 U		NR		NR	40	21 U	20 U	47		NR
Fluorene	380	21 U		NR		NR	68	21 U	20 U	20 U		NR
Phenanthrene	290	11 J		NR		NR	70	21 U	78	89		NR
Anthracene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Fluoranthene	42 U	21 U		NR		NR	20 U	21 U	29	20 U		NR
Pyrene	300	38		NR		NR	79	36	120	83		NR
Benzo(a)anthracene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Chrysene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Benzo(b)fluoranthene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Benzo(k)fluoranthene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Benzo(a)pyrene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Indeno(1,2,3-cd)pyrene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Dibenz(a,h)anthracene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Benzo(g,h,i)perylene	42 U	21 U		NR		NR	20 U	21 U	20 U	20 U		NR
Tot. Conc. BNAs	1120						257	36	227	219		

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of Former UST
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X16-4		X17-4		X18-6		X19-5		X20-5		X21-10		X22-5		X23-10	
Lab Sample Number	29099		29100		29638		29639		29640		29641		29642		29643	
Sampling Date	10/30/97		10/31/97		10/31/97		10/31/97		10/31/97		10/31/97		10/31/97		11/3/97	
Depth	4-4.5		4-4.5		6-6.5		5-5.5		5-5.5		10-1.5		5-5.5		1-1.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1				1		1		1		1		1		1	
Units	mg/kg				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	25	U	25	U	25	U	25	U	30.9		25	U	25	U	25	U

Sample ID	X16-4		X17-4		X18-6		X19-5		X20-5		X21-10		X22-5		X23-10	
Lab Sample Number	29099		29100		29638		29639		29640		29641		29642		29643	
Sampling Date	10/30/97		10/31/97		10/31/97		10/31/97		10/31/97		10/31/97		10/31/97		11/3/97	
Depth	4-4.5		4-4.5		6-6.5		5-5.5		5-5.5		10-1.5		5-5.5		10-10.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor																
Units																
SEMIVOLATILE COMPOUNDS (GC/MS)																
Naphthalene		NR		NR		NR		NR		NR		NR		NR		NR
Acenaphthylene		NR		NR		NR		NR		NR		NR		NR		NR
Acenaphthene		NR		NR		NR		NR		NR		NR		NR		NR
Fluorene		NR		NR		NR		NR		NR		NR		NR		NR
Phenanthrene		NR		NR		NR		NR		NR		NR		NR		NR
Anthracene		NR		NR		NR		NR		NR		NR		NR		NR
Fluoranthene		NR		NR		NR		NR		NR		NR		NR		NR
Pyrene		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(a)anthracene		NR		NR		NR		NR		NR		NR		NR		NR
Chrysene		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(b)fluoranthene		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(k)fluoranthene		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(a)pyrene		NR		NR		NR		NR		NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene		NR		NR		NR		NR		NR		NR		NR		NR
Dibenz(a,h)anthracene		NR		NR		NR		NR		NR		NR		NR		NR
Benzo(g,h,i)perylene		NR		NR		NR		NR		NR		NR		NR		NR
Tot. Conc. BNAs																

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of Former UST
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X24-5		X25-5		X26-5		X27-2		X27B-5		X28-2		X28B-5		X29-2	
Lab Sample Number	29644		29645		29646		29647		29648		29649		29650		29651	
Sampling Date	11/3/97		11/3/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97	
Depth	5-5.5		5-5.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	25	U	35.4		40.8		880		28.3		298		41.6		39.7	

Sample ID	X24-5		X25-5		X26-5		X27-2		X27B-5		X28-2		X28B-5		X29-2	
Lab Sample Number	29644		29645		29646		29647		29648		29649		29650		29651	
Sampling Date	11/3/97		11/3/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97	
Depth	5-5.5		5-5.5		5-5.5		2-2.5		5-5.5		2-2.5		5-5.5		2-2.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor							1				1					
Units							ug/kg				ug/kg					
SEMIVOLATILE COMPOUNDS (GC/MS)																
Naphthalene		NR		NR		NR	18	U		NR	20	U		NR		NR
Acenaphthylene		NR		NR		NR	18	U		NR	39			NR		NR
Acenaphthene		NR		NR		NR	16	J		NR	20	U		NR		NR
Fluorene		NR		NR		NR	20			NR	20	U		NR		NR
Phenanthrene		NR		NR		NR	150			NR	89			NR		NR
Anthracene		NR		NR		NR	47			NR	50			NR		NR
Fluoranthene		NR		NR		NR	320			NR	230			NR		NR
Pyrene		NR		NR		NR	290			NR	320			NR		NR
Benzo(a)anthracene		NR		NR		NR	140			NR	170			NR		NR
Chrysene		NR		NR		NR	170			NR	200			NR		NR
Benzo(b)fluoranthene		NR		NR		NR	240			NR	180			NR		NR
Benzo(k)fluoranthene		NR		NR		NR	18	U		NR	20	U		NR		NR
Benzo(a)pyrene		NR		NR		NR	120			NR	120			NR		NR
Indeno(1,2,3-cd)pyrene		NR		NR		NR	18	U		NR	20	U		NR		NR
Dibenz(a,h)anthracene		NR		NR		NR	18	U		NR	20	U		NR		NR
Benzo(g,h,i)perylene		NR		NR		NR	9.3	J		NR	20	U		NR		NR
Tot. Conc. BNAs							1497				1398					

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) East of Former UST
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X29B-5		X30-2.5		X30B-5		X31_2FG		X32_0FG		X33_4FG		X34_2	
Lab Sample Number	29652		29653		29654		29655		29656		29657		29658	
Sampling Date	11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97	
Depth	5-5.5		2.5-3		5-5.5		2.5-3		0-.5		4-4.5		2-2.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	25	U	216		135		25	U	25	U	25	U	25	U

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Sample ID	X29B-5		X30-2.5		X30B-5		X31_2FG		X32_0FG		X33_4FG		X34_2	
Lab Sample Number	29652		29653		29654		29655		29656		29657		29658	
Sampling Date	11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97		11/4/97	
Depth	5-5.5		2.5-3		5-5.5		2-2.5		0-.5		4-4.5		2-2.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			1		1									
Units			ug/kg		ug/kg									
SEMIVOLATILE COMPOUNDS (GC/MS)														
Naphthalene		NR	61		60			NR		NR		NR		NR
Acenaphthylene		NR	21	U	18	J		NR		NR		NR		NR
Acenaphthene		NR	37		120			NR		NR		NR		NR
Fluorene		NR	21	U	110			NR		NR		NR		NR
Phenanthrene		NR	120		820			NR		NR		NR		NR
Anthracene		NR	26		150			NR		NR		NR		NR
Fluoranthene		NR	170		1100			NR		NR		NR		NR
Pyrene		NR	140		940			NR		NR		NR		NR
Benzo(a)anthracene		NR	49		450			NR		NR		NR		NR
Chrysene		NR	49		520			NR		NR		NR		NR
Benzo(b)fluoranthene		NR	52		650			NR		NR		NR		NR
Benzo(k)fluoranthene		NR	17	J	20	U		NR		NR		NR		NR
Benzo(a)pyrene		NR	28		310			NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene		NR	21	U	20	U		NR		NR		NR		NR
Dibenz(a,h)anthracene		NR	21	U	20	U		NR		NR		NR		NR
Benzo(g,h,i)perylene		NR	21	U	20	U		NR		NR		NR		NR
Tot. Conc. BNAs			732		5230									

Table 5
Remedial Action Soil Sample Analytical Data
(AOC #8) North of UST Excavation
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X35-6		X36-6	
Lab Sample Number	29660		29661	
Sampling Date	11/4/97		11/4/97	
Depth	6-6.5		6-6.5	
Matrix	SOLID		SOLID	
Dilution Factor	1		1	
Units	mg/kg		mg/kg	
TPHC (418.1)	25	U	25	U

Table 5
Remedial Action Soil Sample Analytical Data
(AOC #8) North of UST Excavation
Florasynth, Inc.
Teterboro, New Jersey

Sample ID	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number	30337		30338		30339		30340		30341		30342		30343	
Sampling Date	11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97	
	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1			
Units	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg			
VOLATILE COMPOUNDS (GC/MS)														
MethyleneChloride	110	B	39	B	180	B	42	B	44	B	62	B		NR
Trichlorofluoromethane	1.2	U	1.2	U	1	J	5.8	J	2.6		6.6			NR
Toluene	0.8	J	1.2	U	1.2	U	6	U	1.2	U	5.8	U		NR
Tot. Confident Conc. VOAs	1.5		0		0		0		2.6		6.6			
Tot. Est. Conc. VOA TICs	408		0		306		81		6.2		4500			
SEMIVOLATILE COMPOUNDS (GC/MS)														
Naphthalene	1300		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthylene	810		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthene	1400		20	U	15	J	20	U	20	U	21	U		NR
Fluorene	1000		20	U	21	U	20	U	20	U	21	U		NR
Phenanthrene	1700		20	U	48		20	U	20	U	21	U		NR
Anthracene	830		20	U	21	U	20	U	20	U	21	U		NR
Fluoranthene	5400		20	U	45		14	J	20	U	21	U		NR
Pyrene	3300		20	U	26		11	J	20	U	21	U		NR
Benzo(a)anthracene	1800		20	U	24		20		20	U	21	U		NR
Chrysene	2500		20	U	12	J	9.8	J	20	U	21	U		NR
Benzo(b)fluoranthene	3000		20	U	21	U	20	U	20	U	21	U		NR
Benzo(k)fluoranthene	1100		20	U	21	U	20	U	20	U	21	U		NR
Benzo(a)pyrene	1600		20	U	10	J	13	J	20	U	21	U		NR
Indeno(1,2,3-cd)pyrene	1200		20	U	21	U	20	U	20	U	21	U		NR
Dibenz(a,h)anthracene	290		20	U	21	U	20	U	20	U	21	U		NR
Benzo(g,h,i)perylene	1000		20	U	21	U	20	U	20	U	21	U		NR
Total Confident Conc. BNAs	28230		0		143		20		0		0			
Tot. Est. Conc. BNA TICs	18180		0		15510		2160		890		9056			
PESTICIDES/PCBs														
Aroclor-1016	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1221	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1232	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1242	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1248	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1254	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1260	86	U	82	U	85	U	81	U	81	U	85	U		NR

Table 5
Remedial Action Soil Sample Analytical Data
(AOC #8) North of UST Excavation
Florasynth, Inc.
Teterboro, New Jersey

Sample ID	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number	30337		30338		30339		30340		30341		30342		30343	
Sampling Date	11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97	
	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	NA		NA		NA		NA		NA		NA			
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg			
METALS														
Antimony	1.4	U	1.3	U	1.2	U	1.3	U	1.3	U	1.3	U		NR
Arsenic	64.1		4.5		12.8		3.5		4.6		22.4			NR
Beryllium	0.65		0.87		0.96		0.92		0.93		0.78			NR
Cadmium	0.73	B	0.098	U	0.092	U	0.096	U	0.096	U	0.1	U		NR
Chromium	9.5		21.6		22.4		23.5		24.3		19.7			NR
Copper	43.7		20.9		29.3		20.4		18.8		22.6			NR
Lead	73.1		14		15.1		14.5		14		13.7			NR
Mercury	0.14		0.02	B	0.021	U	0.02	U	0.02	B	0.021	U		NR
Nickel	15.3		32.8		35.6		28.8		30.2		30.5			NR
Selenium	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U	1.2	U		NR
Silver	0.31	U	0.29	U	0.28	U	0.29	U	0.29	U	0.3	U		NR
Thallium	0.97	U	0.93	U	0.88	U	0.92	U	0.92	U	0.97	U		NR
Zinc	234		80.7		79.6		63		64.8		75			NR

Sample ID	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number	30337		30338		30339		30340		30341		30342		30343	
Sampling Date	11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97	
	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	97.3		25	U	25	U	25	U	25	U	25	U	25	U

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X50A_.5	X50B_2	X51A_.5	X51B_2	X52A_.5	X52B_2	X53A_.5	X53B_2
Lab Sample Number	31714	31715	31716	31717	31718	31719	31720	31721
Sampling Date	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97
Depth	5-5.5	2-2.5	5-5.5	2-2.5	5-5.5	2-2.5	5-5.5	2-2.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	50	1	50	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPHC (418.1)	127	46.6	25 U	57.8	57400	155	44000	836

Sample ID	X50A_.5	X50B_2	X51A_.5	X51B_2	X52A_.5	X52B_2	X53A_.5	X53B_2
Lab Sample Number	31714	31715	31716	31717	31718	31719	31720	31721
Sampling Date	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97	11/14/97
Depth	5-5.5	2-2.5	5-5.5	2-2.5	5-5.5	2-2.5	5-5.5	2-2.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1				20	1	20	1
Units	ug/kg				ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene	21 U	NR	NR	NR	1700 J	21 U	1900	20 J
Acenaphthylene	21 U	NR	NR	NR	1300 J	21 U	730 J	10 J
Acenaphthene	21 U	NR	NR	NR	6800	21 U	3400	58
Fluorene	14 J	NR	NR	NR	8400	12 J	5300	86
Phenanthrene	34	NR	NR	NR	6400	16 J	5900	93
Anthracene	21 U	NR	NR	NR	1900 U	21 U	940 U	39
Fluoranthene	30	NR	NR	NR	2800	21 U	810 J	35
Pyrene	36	NR	NR	NR	23000	16 J	2100	92
Benzo(a)anthracene	26	NR	NR	NR	2800	21 U	1600	13 J
Chrysene	18 J	NR	NR	NR	7500	21 U	940 U	59
Benzo(b)fluoranthene	21 U	NR	NR	NR	1700 J	21 U	940 U	20 U
Benzo(k)fluoranthene	21 U	NR	NR	NR	1900 U	21 U	940 U	20 U
Benzo(a)pyrene	14 J	NR	NR	NR	1500 J	21 U	680 J	20 U
Indeno(1,2,3-cd)pyren	14 J	NR	NR	NR	1900 U	21 U	940 U	20 U
Dibenz(a,h)anthracen	21 U	NR	NR	NR	1900 U	21 U	940 U	20 U
Benzo(g,h,i)perylene	15 J	NR	NR	NR	1900 U	21 U	940 U	20 U
Tot. Conf. Conc. BNA	126				57700	0	20200	462

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X54-10		X55-3		X56-8		X57-8		X58-8		X59-2.25		X60-5		X61-3		X62-4	
Lab Sample Number	33406		33407		33408		33409		33410		33411		33412		33413		33414	
Sampling Date	11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97	
Depth	10-10.5		3-3.5		8-8.5		8-8.5		8-8.5		2.25-2.75		5-5.5		3-3.5		4-4.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		12.5		1		5		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	25	U	1360		46.1		25	U	49.1		18300		1030		2160		139	

Sample ID	X54-10		X55-3		X56-8		X57-8		X58-8		X59-2.25		X60-5		X61-3		X62-4	
Lab Sample Number	33406		33407		33408		33409		33410		33411		33412		33413		33414	
Sampling Date	11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97		11/20/97	
Depth	10-10.5		3-3.5		8-8.5		8-8.5		8-8.5		2.25-2.75		5-5.5		3-3.5		4-4.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			5								20		5		10		1	
Units			ug/kg								ug/kg		ug/kg		ug/kg		ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																		
Naphthalene		NR	99	U		NR		NR		NR	3400		120		2600		20	U
Acenaphthylene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Acenaphthene		NR	260			NR		NR		NR	2900		290		580		20	U
Fluorene		NR	320			NR		NR		NR	4100		390		710		20	U
Phenanthrene		NR	720			NR		NR		NR	6500		840		840		20	U
Anthracene		NR	54	J		NR		NR		NR	400	U	74	J	210	U	20	U
Fluoranthene		NR	92	J		NR		NR		NR	650		90	J	140	J	20	U
Pyrene		NR	180			NR		NR		NR	1600		170		300		29	
Benzo(a)anthracene		NR	52	J		NR		NR		NR	950		120		210	U	20	U
Chrysene		NR	86	J		NR		NR		NR	400	U	100	U	210	U	20	U
Benzo(b)fluoranthene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Benzo(k)fluoranthene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Benzo(a)pyrene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Indeno(1,2,3-cd)pyrene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Dibenz(a,h)anthracene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Benzo(g,h,i)perylene		NR	99	U		NR		NR		NR	400	U	100	U	210	U	20	U
Tot. Conf. Conc. BNAs			1480								20100		1930		5030		29	

Table 5
Remedial Action Soil Sample Analytical Summary
(AOC #8) West of UST Excavation
Florasynth, Inc. Teterboro, New Jersey

Sample ID	X63-4		X64-4		X65-3		X66-3.5	
Lab Sample Number	33415		33416		33417		33418	
Sampling Date	11/20/97		11/20/97		11/20/97		11/20/97	
Depth	4-4.5		4-4.5		3-3.5		3.5-4	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
TPHC (418.1)	25	U	70.3		40		25	U

Sample ID	X63-4		X64-4		X65-3		X66-3.5	
Lab Sample Number	33415		33416		33417		33418	
Sampling Date	11/20/97		11/20/97		11/20/97		11/20/97	
Depth	4-4.5		4-4.5		3-3.5		3.5-4	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor								
Units								
SEMIVOLATILE COMPOUNDS (GC/MS)								
Naphthalene		NR		NR		NR		NR
Acenaphthylene		NR		NR		NR		NR
Acenaphthene		NR		NR		NR		NR
Fluorene		NR		NR		NR		NR
Phenanthrene		NR		NR		NR		NR
Anthracene		NR		NR		NR		NR
Fluoranthene		NR		NR		NR		NR
Pyrene		NR		NR		NR		NR
Benzo(a)anthracene		NR		NR		NR		NR
Chrysene		NR		NR		NR		NR
Benzo(b)fluoranthene		NR		NR		NR		NR
Benzo(k)fluoranthene		NR		NR		NR		NR
Benzo(a)pyrene		NR		NR		NR		NR
Indeno(1,2,3-cd)pyrene		NR		NR		NR		NR
Dibenz(a,h)anthracene		NR		NR		NR		NR
Benzo(g,h,i)perylene		NR		NR		NR		NR
Tot. Conf. Conc. BNAs								

Table 6
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP55AS1	GP55BS1	GP55BS2	GP55BS3	GP55BS4	GP56S1	GP56S2	GP56S3	GP56S4
Lab Sample Number	14901	14902	14903	14904	14905	14906	14907	14908	14909
Sampling Date	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Depth	1.5-2	1.5-2	2.0-3.0	7-7.5	7.5-8	1.5-2	2.0-3	7-7.5	7.5-8
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1		1		1		1	
Units	ug/kg	ug/kg		ug/kg		ug/kg		ug/kg	

VOLATILE COMPOUNDS (GC/MS)

MethyleneChloride	1.4	B	2.4	B		NR	8.9	B		NR	2	B		NR	4.8	B		NR
Trichlorofluoromethane	5.4		2.1			NR	12			NR	35			NR	3.8			NR
1,2-Dichloropropane	1.3	U	1.2	U		NR	1.3	U		NR	1.2	U		NR	1.3	U		NR
Tot. Confident Conc. VOA	5.4		2.1				12				35				3.8			
Tot. Est. Conc. VOA TICs (	6.4		0				19				40				370			

SEMIVOLATILE COMPOUNDS (GC/MS)

Acenaphthylene		NR		NR	11	J		NR	20	U		NR	56			NR	20	U
Acenaphthene		NR		NR	50			NR	20	U		NR	29			NR	20	U
Fluorene		NR		NR	66			NR	20	U		NR	20	U		NR	20	U
Phenanthrene		NR		NR	760			NR	20	U		NR	270			NR	20	U
Anthracene		NR		NR	230			NR	20	U		NR	78			NR	20	U
Fluoranthene		NR		NR	1000			NR	20	U		NR	470			NR	20	U
Pyrene		NR		NR	750			NR	20	U		NR	490			NR	20	U
Benzo(a)anthracene		NR		NR	360			NR	20	U		NR	290			NR	20	U
Chrysene		NR		NR	330			NR	20	U		NR	290			NR	20	U
Benzo(b)fluoranthene		NR		NR	370			NR	20	U		NR	310			NR	20	U
Benzo(k)fluoranthene		NR		NR	180			NR	20	U		NR	110			NR	20	U
Benzo(a)pyrene		NR		NR	320			NR	20	U		NR	260			NR	20	U
Indeno(1,2,3-cd)pyrene		NR		NR	200			NR	20	U		NR	200			NR	20	U
Dibenz(a,h)anthracene		NR		NR	20	U		NR	20	U		NR	48			NR	20	U
Benzo(g,h,i)perylene		NR		NR	170			NR	20	U		NR	180			NR	20	U
Total Confident Conc. BNAs (s)					4786				0				3081				0	
Total Estimated Conc. BNA TICs (s)					4510				0				5990				0	

Qualifiers

U - The compound was not detected at the indicated concentration.
J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 6
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP55AS1		GP55BS1		GP55BS2		GP55BS3		GP55BS4		GP56S1		GP56S2		GP56S3		GP56S4	
Lab Sample Number	14901		14902		14903		14904		14905		14906		14907		14908		14909	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	1.5-2		1.5-2		2.0-3.0		7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA				NA				NA				NA	
Units					mg/kg				mg/kg				mg/kg				mg/kg	
PESTICIDES/PCBs																		
Aroclor-1016		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1221		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1232		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1242		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1248		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1254		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
Aroclor-1260		NR		NR	80	U		NR	82	U		NR	80	U		NR	82	U
METALS																		
Aluminum		NR		NR	9380			NR	12200			NR	7520			NR	13500	
Antimony		NR		NR	0.69	U		NR	0.71	U		NR	0.69	U		NR	0.71	U
Arsenic		NR		NR	7.3			NR	8			NR	9.6			NR	3.8	
Barium		NR		NR	85.1			NR	79.5			NR	89.1			NR	96.3	
Beryllium		NR		NR	0.6			NR	0.75			NR	0.48			NR	0.75	
Cadmium		NR		NR	0.26	B		NR	0.3	B		NR	0.33	B		NR	0.21	B
Calcium		NR		NR	1820			NR	1970			NR	24300			NR	1820	
Chromium		NR		NR	16			NR	20.8			NR	14.4			NR	21	
Cobalt		NR		NR	9.3			NR	14.3			NR	5.9			NR	17.7	
Copper		NR		NR	19.5			NR	27.6			NR	19.9			NR	27.5	
Iron		NR		NR	25100			NR	34200			NR	15100			NR	31000	
Lead		NR		NR	19.7			NR	13.4			NR	55.4			NR	11.9	
Magnesium		NR		NR	3430			NR	5260			NR	7670			NR	5710	
Manganese		NR		NR	274			NR	424			NR	397			NR	340	
Mercury		NR		NR	0.06	U		NR	0.062	U		NR	0.1			NR	0.061	U
Nickel		NR		NR	20.6			NR	31			NR	13.3			NR	36.6	
Potassium		NR		NR	498			NR	955			NR	278			NR	1210	
Selenium		NR		NR	0.88	U		NR	0.91	U		NR	0.89	U		NR	0.91	U
Silver		NR		NR	0.19	U		NR	0.2	U		NR	0.28	B		NR	0.2	U
Sodium		NR		NR	92.1	B		NR	216	B		NR	148	B		NR	224	B
Thallium		NR		NR	1	U		NR	1.1	U		NR	1	U		NR	1.1	U
Vanadium		NR		NR	21.8			NR	26			NR	27.6			NR	23	
Zinc		NR		NR	52.6			NR	72.3			NR	51.3			NR	83.9	
WET CHEMISTRY																		
TPHC (418.1)		NR		NR	25	U		NR	25	U		NR	25	U		NR	25	U

Table 6
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP57S1_7-7.5		GP57S1_7.5-8		GP58S1		GP58S2		GP58S3		GP58S4	
Lab Sample Number	14910		14911		14912		14913		14914		14915	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1				1				1			
Units	ug/kg				ug/kg				ug/kg			
VOLATILE COMPOUNDS (GC/MS)												
MethyleneChloride	4.6	B		NR	4.5	B		NR	4.3	B		NR
Trichlorofluoromethane	3.3			NR	98			NR	4.6			NR
1,2-Dichloropropane	1.1	U		NR	1.3	U		NR	1.1	J		NR
Tot. Confident Conc. VOA	3.3				98				4.6			
Tot. Est. Conc. VOA TICs (	18				95				375			
SEMIVOLATILE COMPOUNDS (GC/MS)												
Acenaphthylene		NR	20	U		NR	20	U		NR	21	U
Acenaphthene		NR	20	U		NR	20	U		NR	21	U
Fluorene		NR	20	U		NR	20	U		NR	21	U
Phenanthrene		NR	20	U		NR	20	U		NR	21	U
Anthracene		NR	20	U		NR	20	U		NR	21	U
Fluoranthene		NR	20	U		NR	19	J		NR	21	U
Pyrene		NR	20	U		NR	17	J		NR	21	U
Benzo(a)anthracene		NR	20	U		NR	16	J		NR	21	U
Chrysene		NR	20	U		NR	11	J		NR	21	U
Benzo(b)fluoranthene		NR	20	U		NR	20	U		NR	21	U
Benzo(k)fluoranthene		NR	20	U		NR	20	U		NR	21	U
Benzo(a)pyrene		NR	20	U		NR	20	U		NR	21	U
Indeno(1,2,3-cd)pyrene		NR	20	U		NR	20	U		NR	21	U
Dibenz(a,h)anthracene		NR	20	U		NR	20	U		NR	21	U
Benzo(g,h,i)perylene		NR	20	U		NR	20	U		NR	21	U
Total Confident Conc. BNAs (s)			0				0				0	
Total Estimated Conc. BNA TICs (s)			0				5560				7530	

Qualifiers

U - The compound was not detected at the indicated concentration.
J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 6
Remedial Investigation Soil Sampling Data
(AOC #10) Front Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP57S1_7-7.5		GP57S1_7.5-8		GP58S1		GP58S2		GP58S3		GP58S4	
Lab Sample Number	14910		14911		14912		14913		14914		14915	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	7-7.5		7.5-8		1.5-2		2.0-3		7-7.5		7.5-8	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			NA				NA				NA	
Units			mg/kg				mg/kg				mg/kg	
PESTICIDES/PCBs												
Aroclor-1016		NR	83	U		NR	81	U		NR	84	U
Aroclor-1221		NR	83	U		NR	81	U		NR	84	U
Aroclor-1232		NR	83	U		NR	81	U		NR	84	U
Aroclor-1242		NR	83	U		NR	81	U		NR	84	U
Aroclor-1248		NR	83	U		NR	81	U		NR	84	U
Aroclor-1254		NR	83	U		NR	81	U		NR	84	U
Aroclor-1260		NR	83	U		NR	81	U		NR	84	U
METALS												
Aluminum		NR	10800			NR	8220			NR	11800	
Antimony		NR	0.72	U		NR	0.7	U		NR	0.73	U
Arsenic		NR	4.8			NR	5.4			NR	17	
Barium		NR	80.6			NR	100			NR	90.9	
Beryllium		NR	0.6			NR	0.65			NR	0.74	
Cadmium		NR	0.17	B		NR	0.2	B		NR	0.26	B
Calcium		NR	2280			NR	1580			NR	3190	
Chromium		NR	19.1			NR	13.8			NR	20	
Cobalt		NR	13.7			NR	6.7			NR	14.5	
Copper		NR	24.4			NR	20.9			NR	28.7	
Iron		NR	26200			NR	14700			NR	36500	
Lead		NR	12.8			NR	23.9			NR	13.3	
Magnesium		NR	4750			NR	2190			NR	5220	
Manganese		NR	922			NR	138			NR	715	
Mercury		NR	0.062	U		NR	0.14			NR	0.063	U
Nickel		NR	27.9			NR	16.4			NR	29.5	
Potassium		NR	953			NR	144	B		NR	1310	
Selenium		NR	0.91	U		NR	0.89	U		NR	0.93	U
Silver		NR	0.2	U		NR	0.28	B		NR	0.2	U
Sodium		NR	223	B		NR	150	B		NR	262	
Thallium		NR	1.1	U		NR	1	U		NR	1.1	U
Vanadium		NR	24.9			NR	22.4			NR	27	
Zinc		NR	67.2			NR	40.2			NR	72	
WET CHEMISTRY												
TPHC (418.1)		NR	25	U		NR	25	U		NR	25	U

Table 7
Remedial Investigation Soil Sampling Data
(AOC #10) Loading Dock Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	5.5-6		6-6.5		6.5-7		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1		1		1		1		1		1		1	
Units	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
VOLATILE COMPOUNDS (GC/MS)																				
MethyleneChloride	1.5	B	6.8	B		NR	29	B		NR	10	B		NR		NR	3.2	B		NR
Trichlorofluoromethane	2.8		1.3	U		NR	74			NR	37			NR		NR	3.2			NR
Total Conf. Conc. VOAs (s)	2.8		0				74				37						3.2			
Total Est. Conc. VOA TICs (s)	0		0				100				35						0			
SEMIVOLATILE COMPOUNDS (GC/MS)																				
Acenaphthylene		NR		NR	21	U		NR	12	J		NR	8.9	J	21	U		NR	23	U
Acenaphthene		NR		NR	21	U		NR	36			NR	12	J	21	U		NR	23	U
Fluorene		NR		NR	21	U		NR	41			NR	15	J	21	U		NR	35	
Phenanthrene		NR		NR	33			NR	230			NR	88		21	U		NR	220	
Anthracene		NR		NR	21	U		NR	57			NR	24		21	U		NR	70	
Pyrene		NR		NR	48			NR	260			NR	130		21	U		NR	200	
Benzo(a)anthracene		NR		NR	28			NR	100			NR	59		21	U		NR	110	
Chrysene		NR		NR	26			NR	130			NR	74		21	U		NR	92	
bis(2-Ethylhexyl)phthalate		NR		NR	86	J		NR	650			NR	410	U	420	U		NR	460	U
Benzo(b)fluoranthene		NR		NR	34			NR	130			NR	98		21	U		NR	75	
Benzo(k)fluoranthene		NR		NR	14	J		NR	51			NR	40		21	U		NR	35	
Benzo(a)pyrene		NR		NR	24			NR	100			NR	85		21	U		NR	76	
Indeno(1,2,3-cd)pyrene		NR		NR	16	J		NR	59			NR	48		21	U		NR	23	U
Dibenz(a,h)anthracene		NR		NR	21	U		NR	16	J		NR	14	J	21	U		NR	23	U
Benzo(g,h,i)perylene		NR		NR	15	J		NR	56			NR	47		21	U		NR	23	U
Total Confident Conc. BNAs (s)					256				2190				823		0				1153	
Total Estimated Conc. BNA TICs (s)					0				1200				0		0				0	
PESTICIDES/PCBs																				
Aroclor-1016		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1221		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1232		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1242		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1248		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1254		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U
Aroclor-1260		NR		NR	86	U		NR	86	U		NR	83	U	85	U		NR	92	U

Table 7
Remedial Investigation Soil Sampling Data
(AOC #10) Loading Dock Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP51S1		GP51S2		GP51S3		GP52S1		GP52S2		GP53S1		GP53S2		GP53S3		GP54S1		GP54S2	
Lab Sample Number	14891		14892		14893		14894		14895		14896		14897		14898		14899		14900	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	5.5-6		6-6.5		6.5-7		5-5.5		5.5-6		5-5.5		5.5-6		6-6.5		5-5.5		5.5-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor					NA				NA				NA		NA				NA	
Units					mg/kg				mg/kg				mg/kg		mg/kg				mg/kg	
METALS																				
Aluminum		NR		NR	13300			NR	12000			NR	6870		13900			NR	14600	
Antimony		NR		NR	0.74	U		NR	0.74	U		NR	0.72	U	0.74	U		NR	0.8	U
Arsenic		NR		NR	8.2			NR	10.1			NR	5.8		6.1			NR	7.7	
Barium		NR		NR	109			NR	79.7			NR	44.1		93.2			NR	91.2	
Beryllium		NR		NR	0.74			NR	0.66			NR	0.36	B	0.76			NR	0.7	
Cadmium		NR		NR	0.24	B		NR	0.27	B		NR	0.15	B	0.22	B		NR	0.12	B
Calcium		NR		NR	3420			NR	6640			NR	19500		3640			NR	2620	
Chromium		NR		NR	21.7			NR	18.8			NR	11		22.3			NR	22.7	
Cobalt		NR		NR	22.1			NR	13.4			NR	6.9		14.6			NR	19.6	
Copper		NR		NR	28.7			NR	27.2			NR	13.6		29.7			NR	29.7	
Iron		NR		NR	31200			NR	33100			NR	15900		31700			NR	25000	
Lead		NR		NR	14			NR	12.1			NR	8.3		14.6			NR	14.5	
Magnesium		NR		NR	6900			NR	6090			NR	4240		6690			NR	6840	
Manganese		NR		NR	960			NR	783			NR	587		711			NR	382	
Mercury		NR		NR	0.064	U		NR	0.064	U		NR	0.062	U	0.063	U		NR	0.069	U
Nickel		NR		NR	35.9			NR	29			NR	14.8		33.6			NR	36.5	
Potassium		NR		NR	1230			NR	1680			NR	741		1600			NR	1310	
Selenium		NR		NR	0.95	U		NR	0.95	U		NR	0.91	U	0.94	U		NR	1	U
Silver		NR		NR	0.26	B		NR	0.2	U		NR	0.2	U	0.29	B		NR	0.25	B
Sodium		NR		NR	146	B		NR	283			NR	197	B	272			NR	211	B
Thallium		NR		NR	1.1	U		NR	1.1	U		NR	1.1	U	1.1	U		NR	1.2	U
Vanadium		NR		NR	24.6			NR	22.4			NR	12.9		25			NR	24.4	
Zinc					82.3				69.7				43		81.5				88.3	
WET CHEMISTRY																				
TPHC (418.1)		NR		NR	25	U		NR	569			NR	25	U	25	U		NR	25	U

Qualifiers

U - The compound was not detected at the indicated concentration.
J - The concetration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample.
NR - Not analyzed.

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2	
Lab Sample Number	14881		14882		14883		14884		14885		14886		14887	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	50				50		50				1			
Units	ug/kg				ug/kg		ug/kg				ug/kg			
VOLATILE COMPOUNDS (GC/MS)														
MethyleneChloride	4800			NR	2300		12000			NR	110	B		NR
Trichlorofluoromethane	9800			NR	17000		400			NR	150			NR
Toluene	93	J		NR	150	U	150	U		NR	8.7			NR
Total Confident Conc. VOAs (s)	14600				19300		12400				159			
Total Estimated Conc. VOA TICs (s)	8380				1300		5300				2752			
Sample ID	GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2	
Lab Sample Number	14881		14882		14883		14884		14885		14886		14887	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			2						1				5	
Units			ug/kg						ug/kg				ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)														
Acenaphthylene		NR	22	J		NR		NR	20	U		NR	72	J
Acenaphthene		NR	42	U		NR		NR	20	U		NR	46	J
Fluorene		NR	42	U		NR		NR	20	U		NR	45	J
Phenanthrene		NR	95			NR		NR	20	U		NR	280	
Anthracene		NR	19	J		NR		NR	20	U		NR	90	J
Fluoranthene		NR	350			NR		NR	20	U		NR	810	
Pyrene		NR	280			NR		NR	20	U		NR	580	
Benzo(a)anthracene		NR	170			NR		NR	20	U		NR	320	
Chrysene		NR	250			NR		NR	20	U		NR	460	
bis(2-Ethylhexyl)phthalate		NR	260	J		NR		NR	410	U		NR	880	J
Benzo(b)fluoranthene		NR	290			NR		NR	20	U		NR	460	
Benzo(k)fluoranthene		NR	130			NR		NR	20	U		NR	220	
Benzo(a)pyrene		NR	170			NR		NR	20	U		NR	300	
Indeno(1,2,3-cd)pyrene		NR	160			NR		NR	20	U		NR	230	
Dibenz(a,h)anthracene		NR	39	J		NR		NR	20	U		NR	50	J
Benzo(g,h,i)perylene		NR	150			NR		NR	20	U		NR	200	
Total Confident Conc. BNAs (s)			2045						0				3860	
Total Estimated Conc. BNA TICs (s)			74700						18440				481000	

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2	
Lab Sample Number	14881		14882		14883		14884		14885		14886		14887	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			1						1				1	
Units			ug/kg						ug/kg				ug/kg	
PESTICIDES/PCBs														
Aroclor-1016		NR	84	U		NR		NR	83	U		NR	92	U
Aroclor-1221		NR	84	U		NR		NR	83	U		NR	92	U
Aroclor-1232		NR	84	U		NR		NR	83	U		NR	92	U
Aroclor-1242		NR	84	U		NR		NR	83	U		NR	92	U
Aroclor-1248		NR	670			NR		NR	83	U		NR	92	U
Aroclor-1254		NR	570			NR		NR	83	U		NR	92	U
Aroclor-1260		NR	210			NR		NR	83	U		NR	92	U

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP47S1		GP47S2		GP48S1		GP48S2		GP48S3		GP49S1		GP49S2	
Lab Sample Number	14881		14882		14883		14884		14885		14886		14887	
Sampling Date	7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97		7/31/97	
Depth	4.5-5		5.0-6		0.5-1		4.5-5		5.0-6		4.5-5		5.6-6	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor			NA						NA				NA	
Units			mg/kg						mg/kg				mg/kg	
METALS														
Aluminum		NR	12900			NR		NR	13000			NR	10400	
Antimony		NR	0.73	U		NR		NR	0.72	U		NR	0.8	U
Arsenic		NR	13.2			NR		NR	5.3			NR	24.6	
Barium		NR	68.7			NR		NR	91.5			NR	114	
Beryllium		NR	0.74			NR		NR	0.73			NR	0.68	
Cadmium		NR	0.21	B		NR		NR	0.27	B		NR	0.41	B
Calcium		NR	3060			NR		NR	4230			NR	3490	
Chromium		NR	20.1			NR		NR	20.7			NR	17.5	
Cobalt		NR	14.5			NR		NR	14			NR	10.5	
Copper		NR	25.7			NR		NR	28.8			NR	28.6	
Iron		NR	37300			NR		NR	35100			NR	22500	
Lead		NR	14.6			NR		NR	13			NR	98.2	
Magnesium		NR	6080			NR		NR	6740			NR	3830	
Manganese		NR	572			NR		NR	979			NR	369	
Mercury		NR	0.063	U		NR		NR	0.062	U		NR	0.069	U
Nickel		NR	31.9			NR		NR	31.1			NR	24	
Potassium		NR	1040			NR		NR	960			NR	980	
Selenium		NR	0.98	B		NR		NR	0.91	U		NR	1	U
Silver		NR	0.2	U		NR		NR	0.23	B		NR	0.26	B
Sodium		NR	138	B		NR		NR	149	B		NR	162	B
Thallium		NR	1.1	U		NR		NR	1.1	U		NR	1.2	U
Vanadium		NR	22.8			NR		NR	22			NR	25.8	
Zinc		NR	76.4			NR		NR	74.2			NR	70.6	

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP50S1		GP50S2		GP50S3	
Lab Sample Number	14888		14889		14890	
Sampling Date	7/31/97		7/31/97		7/31/97	
Depth	0.5-1		4.5-5		5.0-6	
Matrix	SOLID		SOLID		SOLID	
Dilution Factor	5000		1			
Units	ug/kg		ug/kg			
VOLATILE COMPOUNDS (GC/MS)						
MethyleneChloride	17000	U	1000			NR
Trichlorofluoromethane	17000	U	62			NR
Toluene	17000	U	4.5	J		NR
Total Confident Conc. VOAs (s)	0		62			
Total Estimated Conc. VOA TICs (s)	1720000		1218			
Sample ID	GP50S1		GP50S2		GP50S3	
Lab Sample Number	14888		14889		14890	
Sampling Date	7/31/97		7/31/97		7/31/97	
Depth	0.5-1		4.5-5		5.0-6	
Matrix	SOLID		SOLID		SOLID	
Dilution Factor					1	
Units					ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)						
Acenaphthylene		NR		NR	20	U
Acenaphthene		NR		NR	20	U
Fluorene		NR		NR	8.6	J
Phenanthrene		NR		NR	36	
Anthracene		NR		NR	20	U
Fluoranthene		NR		NR	34	
Pyrene		NR		NR	24	
Benzo(a)anthracene		NR		NR	16	J
Chrysene		NR		NR	9.3	J
bis(2-Ethylhexyl)phthalate		NR		NR	410	U
Benzo(b)fluoranthene		NR		NR	20	U
Benzo(k)fluoranthene		NR		NR	20	U
Benzo(a)pyrene		NR		NR	20	U
Indeno(1,2,3-cd)pyrene		NR		NR	20	U
Dibenz(a,h)anthracene		NR		NR	20	U
Benzo(g,h,i)perylene		NR		NR	20	U
Total Confident Conc. BNAs (s)					94	
Total Estimated Conc. BNA TICs (s)					3940	

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP50S1	GP50S2	GP50S3
Lab Sample Number	14888	14889	14890
Sampling Date	7/31/97	7/31/97	7/31/97
Depth	0.5-1	4.5-5	5.0-6
Matrix	SOLID	SOLID	SOLID
Dilution Factor			1
Units			ug/kg

PESTICIDES/PCBs

Aroclor-1016		NR		NR	83	U
Aroclor-1221		NR		NR	83	U
Aroclor-1232		NR		NR	83	U
Aroclor-1242		NR		NR	83	U
Aroclor-1248		NR		NR	83	U
Aroclor-1254		NR		NR	83	U
Aroclor-1260		NR		NR	83	U

Table 8
Remedial Investigation Soil Sample Summary
(AOC #10) Rear Spill Containment UST
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP50S1		GP50S2		GP50S3	
Lab Sample Number	14888		14889		14890	
Sampling Date	7/31/97		7/31/97		7/31/97	
Depth	0.5-1		4.5-5		5.0-6	
Matrix	SOLID		SOLID		SOLID	
Dilution Factor					NA	
Units					mg/kg	
METALS						
Aluminum		NR		NR	13800	
Antimony		NR		NR	0.72	U
Arsenic		NR		NR	5.7	
Barium		NR		NR	87.7	
Beryllium		NR		NR	0.78	
Cadmium		NR		NR	0.22	B
Calcium		NR		NR	3590	
Chromium		NR		NR	21.6	
Cobalt		NR		NR	14.9	
Copper		NR		NR	30.7	
Iron		NR		NR	33500	
Lead		NR		NR	13.5	
Magnesium		NR		NR	6630	
Manganese		NR		NR	965	
Mercury		NR		NR	0.062	U
Nickel		NR		NR	33.6	
Potassium		NR		NR	1080	
Selenium		NR		NR	0.92	U
Silver		NR		NR	0.2	U
Sodium		NR		NR	130	B
Thallium		NR		NR	1.1	U
Vanadium		NR		NR	25.7	
Zinc		NR		NR	77.3	

Table 9
Remedial Investigation Analytical Results
(AOC #10) Liquids in Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	Sump
Lab Sample Number	24062
Sampling Date	09/29/97
Matrix	WATER
Units	ug/l

Sample ID	Sump
Lab Sample Number	24062
Sampling Date	09/29/97
Matrix	WATER
Units	ug/L

VOLATILE COMPOUNDS (GC/MS)

Dilution Factor	1000.0
MethyleneChloride	3340
Trichlorofluoromethane	29100
Total Confident Conc. VOAs (s)	32440
Total Est. Conc. VOA TICs (s)	413000

SEMIVOLATILE COMPOUNDS (GC/MS)

Dilution Factor	5.0
Diethylphthalate	130
Total Confident Conc. BNAs (s)	130
Total Estimated Conc. BNA TICs	7152

METALS

Arsenic	4.4
Cadmium	1.0
Chromium	7.9
Copper	141
Lead	39.9
Mercury	0.20
Nickel	7.3
Zinc	125

PESTICIDES/PCBs

Dilution Factor	1.0	
Aldrin	0.03	U
alpha-BHC	0.02	U
beta-BHC	0.02	U
delta-BHC	0.02	U
gamma-BHC(Lindane	0.02	U
Chlordane	0.30	U
4,4'-DDD	0.06	U
4,4'-DDE	0.02	U
4,4'-DDT	0.02	U
Dieldrin	0.02	U
Endosulfanl	0.02	U
EndosulfanII	0.02	U
Endosulfansulfate	0.02	U
Endrin	0.02	U
Endrinaldehyde	0.03	U
Heptachlor	0.03	U
Heptachlorepoxide	0.02	U
Toxaphene	0.50	U
Aroclor-1016	0.20	U
Aroclor-1221	0.40	U
Aroclor-1232	0.10	U
Aroclor-1242	0.40	U
Aroclor-1248	0.30	U
Aroclor-1254	0.40	U
Aroclor-1260	0.10	U

	Sump
	24062
	09/29/97
	WATER
	NA
	MG/L

Corrosivity (std units)		NR
TOC		NR
Ignitability (deg F)	>160	
pH (std units)	6.82	
ReactiveCyanide	25.0	U
ReactiveSulfide	20.0	U
TPHC 418.1	3.6	

Qualifiers:

NR: Not Analyzed

U: Not Detected

Table 10
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	X43-2	X44-5	X45-6	X46-3	X47-3	X48-6	X49-6
Lab Sample Number	30337	30338	30339	30340	30341	30342	30343
Sampling Date	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97
Depth	2-2.5	5-5.5	6-6.5	3-3.5	3-3.5	6-6.5	6-6.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

VOLATILE COMPOUNDS (GC/MS)

MethyleneChloride	110	B	39	B	180	B	42	B	44	B	62	B		NR
Trichlorofluoromethane	1.2	U	1.2	U	1	J	5.8	J	2.6		6.6			NR
Toluene	0.8	J	1.2	U	1.2	U	6	U	1.2	U	5.8	U		NR
Xylene(Total)	1.5		1.2	U	1.2	U	6	U	1.2	U	5.8	U		NR
Total Confident Conc. VOAs (s)	1.5		0		0		0		2.6		6.6			
Total Estimated Conc. VOA TICs (s)	408		0		306		81		6.2		4500			

SEMIVOLATILE COMPOUNDS (GC/MS)

Naphthalene	1300		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthylene	810		20	U	21	U	20	U	20	U	21	U		NR
Acenaphthene	1400		20	U	15	J	20	U	20	U	21	U		NR
Fluorene	1000		20	U	21	U	20	U	20	U	21	U		NR
Phenanthrene	1700		20	U	48		20	U	20	U	21	U		NR
Anthracene	830		20	U	21	U	20	U	20	U	21	U		NR
Fluoranthene	5400		20	U	45		14	J	20	U	21	U		NR
Pyrene	3300		20	U	26		11	J	20	U	21	U		NR
Benzo(a)anthracene	1800		20	U	24		20		20	U	21	U		NR
Chrysene	2500		20	U	12	J	9.8	J	20	U	21	U		NR
Benzo(b)fluoranthene	3000		20	U	21	U	20	U	20	U	21	U		NR
Benzo(k)fluoranthene	1100		20	U	21	U	20	U	20	U	21	U		NR
Benzo(a)pyrene	1600		20	U	10	J	13	J	20	U	21	U		NR
Indeno(1,2,3-cd)pyrene	1200		20	U	21	U	20	U	20	U	21	U		NR
Dibenz(a,h)anthracene	290		20	U	21	U	20	U	20	U	21	U		NR
Benzo(g,h,i)perylene	1000		20	U	21	U	20	U	20	U	21	U		NR
Total Confident Conc. BNAs (s)	28230		0		143		20		0		0			
Total Est. Conc. BNA TICs (s)	18180		0		15510		2160		890		9056			

Table 10
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	X43-2	X44-5	X45-6	X46-3	X47-3	X48-6	X49-6
Lab Sample Number	30337	30338	30339	30340	30341	30342	30343
Sampling Date	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97
Depth	2-2.5	5-5.5	6-6.5	3-3.5	3-3.5	6-6.5	6-6.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1	
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	

PESTICIDES/PCBs

Aroclor-1016	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1221	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1232	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1242	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1248	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1254	86	U	82	U	85	U	81	U	81	U	85	U		NR
Aroclor-1260	86	U	82	U	85	U	81	U	81	U	85	U		NR

Sample ID	X43-2	X44-5	X45-6	X46-3	X47-3	X48-6	X49-6
Lab Sample Number	30337	30338	30339	30340	30341	30342	30343
Sampling Date	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97	11/7/97
Depth	2-2.5	5-5.5	6-6.5	3-3.5	3-3.5	6-6.5	6-6.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1	1
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

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TPHC	97.3		25	U	25	U	25	U	25	U	25	U	25	U

Table 10
(AOC #10) Remedial Action Soil Sample Analytical Data
Rear Spill Containment Tank
Florasynth, Inc. Teterboro, N.J.

Sample ID	X43-2		X44-5		X45-6		X46-3		X47-3		X48-6		X49-6	
Lab Sample Number	30337		30338		30339		30340		30341		30342		30343	
Sampling Date	11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97		11/7/97	
Depth	2-2.5		5-5.5		6-6.5		3-3.5		3-3.5		6-6.5		6-6.5	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	NA		NA		NA		NA		NA		NA		NA	
Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
METALS														
Antimony	1.4	U	1.3	U	1.2	U	1.3	U	1.3	U	1.3	U		NR
Arsenic	64.1		4.5		12.8		3.5		4.6		22.4			NR
Beryllium	0.65		0.87		0.96		0.92		0.93		0.78			NR
Cadmium	0.73	B	0.098	U	0.092	U	0.096	U	0.096	U	0.1	U		NR
Chromium	9.5		21.6		22.4		23.5		24.3		19.7			NR
Copper	43.7		20.9		29.3		20.4		18.8		22.6			NR
Lead	73.1		14		15.1		14.5		14		13.7			NR
Mercury	0.14		0.02	B	0.021	U	0.02	U	0.02	B	0.021	U		NR
Nickel	15.3		32.8		35.6		28.8		30.2		30.5			NR
Selenium	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U	1.2	U		NR
Silver	0.31	U	0.29	U	0.28	U	0.29	U	0.29	U	0.3	U		NR
Thallium	0.97	U	0.93	U	0.88	U	0.92	U	0.92	U	0.97	U		NR
Zinc	234		80.7		79.6		63		64.8		75			NR

Table 11
Remedial Investigation Soil Sampling Data
(AOC #11) Exterior Storage Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP44S1	GP44S2	GP44S3	GP45S1	GP45S2	GP45S3	GP46S1	GP46S2	GP46S3
Lab Sample Number	14872	14873	14874	14875	14876	14877	14878	14879	14880
Sampling Date	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97	7/31/97
Depth	0.5-1	2.5-3	4-4.5	0.5-1	2.5-3	4-4.5	0.5-1	2.5-3	4-4.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	1	1	2	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SEMIVOLATILE COMPOUNDS (GC/MS)									
Naphthalene	100	20 U	20 U	18 U	19 U	19 U	26 J	20 U	20 U
Acenaphthylene	19 J	20 U	20 U	20	19 U	19 U	250	20 U	20 U
Acenaphthene	240	20 U	20 U	88	11 J	13 J	470	20 U	20 U
Fluorene	220	20 U	20 U	120	16 J	18 J	670	20 U	20 U
Phenanthrene	2100	20 U	20 U	810	110	140	5900	20 U	20 U
Anthracene	580	20 U	20 U	200	28	39	1600	20 U	20 U
Fluoranthene	2900	20 U	15 J	830	130	180	7800	18 J	20 U
Pyrene	2500	20 U	12 J	660	100	140	6900	15 J	20 U
Benzo(a)anthracene	1100	11 J	13 J	290	52	67	3700	16 J	9.5 J
Chrysene	1200	20 U	20 U	320	50	68	4100	8.8 J	20 U
bis(2-Ethylhexyl)phthalate	150 J	160 J	280 J	120 J	85 J	590	730 U	410 U	720
Benzo(b)fluoranthene	1300	20 U	20 U	280	52	67	3900	12 J	20 U
Benzo(k)fluoranthene	520	20 U	20 U	110	19	28	1600	20 U	20 U
Benzo(a)pyrene	1100	20 U	20 U	230	41	55	3100	8.9 J	20 U
Indeno(1,2,3-cd)pyrene	690	20 U	20 U	110	23	29	1900	20 U	20 U
Dibenz(a,h)anthracene	140	20 U	20 U	45	19 U	19 U	520	20 U	20 U
Benzo(g,h,i)perylene	690	20 U	20 U	110	21	28	1500	20 U	20 U
Tot. Confident Conc. BNAs	15380	0	0	4223	626	1431	43910	0	720
Tot. Est. Conc. BNA TICs	23580	750	340	690	320	0	31930	177680	14740

Table 11
Remedial Investigation Soil Sampling Data
(AOC #11) Exterior Storage Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	A4S1	A4S2	A6S1	A6S2	A7S1	A7S2	A8S1	A8S2
Lab Sample Number	57421	57422	57425	57426	57427	57428	57429	57430
Sampling Date	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98
Depth	3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	50	50	50	50	50	50	50	50
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

VOLATILE COMPOUNDS (GC/MS)

Ethylbenzene	89	J	150	U	150	U	160	U	140	U	160	U	130	U	160	U
Xylene(Total)	160		150	U	150	U	160	U	140	U	160	U	130	U	160	U
Total Confident Conc. VOAs	160		0		0		0		0		0		0		0	
Total Estimated Conc. VOA	4700		0		8150		0		8780		1200		1100		780	

Sample ID	A4S1	A4S2	A6S1	A6S2	A7S1	A7S2	A8S1	A8S2
Lab Sample Number	57421	57422	57425	57426	57427	57428	57429	57430
Sampling Date	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98	4/27/98
Depth	3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8	3.5-4	7.5-8
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1	1	1	1	5	1	1	1
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

SEMIVOLATILE COMPOUNDS (GC/MS)

Naphthalene	46	J	430	U	390	U	430	U	2000	U	430	U	390	U	420	U
Phenanthrene	22	J	430	U	15	J	430	U	2000	U	430	U	390	U	420	U
Fluoranthene	41	J	430	U	390	U	430	U	2000	U	430	U	390	U	9.9	J
Pyrene	37	J	430	U	390	U	430	U	2000	U	430	U	390	U	9.3	J
Chrysene	24	J	430	U	390	U	430	U	2000	U	430	U	390	U	420	U
bis(2-Ethylhexyl)phthalate	410	U	430	U	150	J	430	U	2000	U	430	U	390	U	420	U
Di-n-octylphthalate	410	U	430	U	130	J	430	U	2000	U	430	U	390	U	420	U
Benzo(b)fluoranthene	29		21	U	20	U	21	U	100	U	22	U	20	U	21	U
Benzo(a)pyrene	18	J	21	U	20	U	21	U	100	U	22	U	20	U	21	U
Indeno(1,2,3-cd)pyrene	13	J	21	U	20	U	21	U	100	U	22	U	20	U	21	U
Total Confident Conc. BNAs	29		0		0		0		0		0		0		0	
Total Estimated Conc. BNA	25940		0		330		0		833800		11830		0		4590	

Table 12
Remedial Investigation Soil Sampling Data
(AOC #12) Former Electrical Transformer Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP35A
Lab Sample Number	14724
Sampling Date	7/30/97
Depth	0.5-1.0'
Matrix	SOLID
Dilution Factor	1
Units	ug/kg

PESTICIDES/PCBs

Aroclor-1016	84	U
Aroclor-1221	84	U
Aroclor-1232	84	U
Aroclor-1242	84	U
Aroclor-1248	84	U
Aroclor-1254	84	U
Aroclor-1260	84	U

Table 13
Remedial Investigation Analytical Data
(AOC #16) Trapped Water
Florasynth, Inc. Teterboro, N.J.

Sample ID	GP25	GP35	GP32	GP34
Lab Sample Number	14100	14916	14917	14918
Sampling Date	7/30/97	8/1/97	8/1/97	8/1/97
Matrix	WATER	WATER	WATER	WATER
Dilution Factor	1	1	1	1
Units	ug/l	ug/l	ug/l	ug/l

VOLATILE COMPOUNDS (GC/MS)

Chloroethane	1	U	1.1		1	U	1	U
Chloroform	0.2	U	0.2	U	0.2	U	2.5	
Benzene	3		0.3		0.2	U	0.2	U
Toluene	0.2	U	4.4		0.2	U	0.2	U
Ethylbenzene	0.5		0.2	U	0.2	U	0.2	U
Total Conf. Conc. VOAs	3.5		5.8		0		2.5	
Total Est. Conc. VOA TICs	1161		106		5.7		68	

SEMIVOLATILE COMPOUNDS (GC/MS)

Naphthalene	9.9		7.6	U	2.5	U	41	U
Acenaphthene	11		8.4	U	2.8	U	44	U
Diethylphthalate	5		3.8		1.8		19	U
Fluorene	16		5.9	U	1.9	U	31	U
Phenanthrene	29		3.4		1	U	18	
Fluoranthene	2.5		3.3	U	1.1	U	28	
Pyrene	5.3		4.2		0.6	U	34	
Benzo(a)anthracene	2.9		2.5	U	0.8	U	14	U
Chrysene	1.2	J	2.6	U	0.9	U	14	U
bis(2-Ethylhexyl)phthalate	7.7		17		39		870	
Total Conf. Conc. BNAs	89		28		41		950	
Total Est. Conc. BNA TICs	1504		2209		0		5720	

Sample ID	GP25	GP35	GP32	GP34
Lab Sample Number	14100	14916	14917	14918
Sampling Date	7/30/97	8/1/97	8/1/97	8/1/97
Matrix	WATER	WATER	WATER	WATER
Dilution Factor	NA		NA	
Units	mg/l		mg/l	

WET CHEMISTRY

Alkalinity	920			NR	321			NR
Sulfate	28.4			NR	79.9	U		NR
Total Kjeldahl Nitogen	8.6			NR	0.1			NR
TOC	239			NR	11.9			NR
HETEROTROPHIC PLAT	7300			NR	160000			NR
TotalPhosphorus	2.5			NR	3.8			NR
Iron	40			NR	72.1			NR

Table 14
Remedial Investigation Soil Sampling Data
(AOC #17) Potwash Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	16175		16176		16177		16178	
Sampling Date	8/11/97		8/11/97		8/11/97		8/11/97	
Depth	0-.5		1-1.5		0-.5		1-1.5	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		100		1	
Units	ug/kg		ug/kg		ug/kg		ug/kg	
VOLATILE COMPOUNDS (GC/MS)								
MethyleneChloride	5.2	B	4.1	B	340	B	27	B
Toluene	1.2	U	2.9		400		46	
Xylene(Total)	1.2	U	1.2	U	330	U	3.7	J
Total Conf. Conc. VOAs (s)	0		2.9		400		46	
Total Est. Conc. VOA TICs	0		59		129300		5130	

Sample ID	A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	16175		16176		16177		16178	
Sampling Date	8/11/97		8/11/97		8/11/97		8/11/97	
Depth	0-.5		1-1.5		0-.5		1-1.5	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		10		20	
Units	ug/kg		ug/kg		ug/kg		ug/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)								
Diethylphthalate	390	U	400	U	91000		120000	
Phenanthrene	48		33		220	U	410	U
Anthracene	12	J	12	J	220	U	410	U
Di-n-butylphthalate	390	U	400	U	4300	U	8200	U
Fluoranthene	110		83		220	U	410	U
Pyrene	100		72		220	U	410	U
Benzo(a)anthracene	19	U	62		220	U	410	U
Chrysene	54		42		220	U	410	U
bis(2-Ethylhexyl)phthalate	150	J	610	B	3000	JB	3300	JB
Benzo(b)fluoranthene	79		59		220	U	410	U
Benzo(k)fluoranthene	26		26		220	U	410	U
Benzo(a)pyrene	52		47		220	U	410	U
Total Confident Conc. BNAs	469		424		91000		120000	
Total Estimated Conc. BNA TICs	2480		18780		424000		389000	

Table 14
Remedial Investigation Soil Sampling Data
(AOC #17) Potwash Area
Florasynth, Inc. Teterboro, N.J.

Sample ID	A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	16175		16176		16177		16178	
Sampling Date	8/11/97		8/11/97		8/11/97		8/11/97	
Depth	0-.5		1-1.5		0-.5		1-1.5	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor	1		1		1		1	
Units	ug/kg		ug/kg		ug/kg		ug/kg	
PESTICIDES/PCBs								
Aroclor-1016	79	U	82	U	88	U	83	U
Aroclor-1221	79	U	82	U	88	U	83	U
Aroclor-1232	79	U	82	U	88	U	83	U
Aroclor-1242	79	U	82	U	88	U	83	U
Aroclor-1248	79	U	82	U	88	U	83	U
Aroclor-1254	79	U	82	U	88	U	83	U
Aroclor-1260	79	U	82	U	88	U	83	U

Sample ID	A-1_0-6		A-2_12-18		B-1_0-6		B-2_12-18	
Lab Sample Number	16175		16176		16177		16178	
Sampling Date	8/11/97		8/11/97		8/11/97		8/11/97	
Depth	0-.5		1-1.5		0-.5		1-1.5	
Matrix	SOLID		SOLID		SOLID		SOLID	
Dilution Factor	NA		NA		NA		NA	
Units	mg/kg		mg/kg		mg/kg		mg/kg	
METALS								
Aluminum	9140		13000		9330		7940	
Antimony	1.2	U	1.3	U	1.4	U	1.3	U
Arsenic	3.5		10.2		2.2		2	
Barium	41	B	75.3		32.1	B	29.1	B
Beryllium	0.41	B	0.76		0.39	B	0.35	B
Cadmium	0.094	U	0.098	U	0.11	U	0.099	U
Calcium	1940		3140		1240	B	1090	B
Chromium	18.1		20.4		15.9		14	
Cobalt	6	B	12.4		5.3	B	5	B
Copper	21.6		24.4		10.5		9.8	
Iron	16700		34000		16000		14100	
Lead	21		14.3		9.2	B	8.4	B
Magnesium	2380		5790		1850		1680	
Manganese	447		1080		195		171	
Mercury	0.059	U	0.061	U	0.066	U	0.062	U
Nickel	11.9		27		9.9	B	8.8	B
Potassium	639	B	1410		383	B	325	B
Selenium	1.1	U	1.2	U	1.3	U	1.2	U
Silver	0.28	U	0.29	U	0.32	U	0.3	U
Sodium	209	B	212	B	233	B	249	B
Thallium	0.9	U	0.93	U	1	U	0.94	U
Vanadium	27.8		25.9		29.4		25.9	
Zinc	40.6		73.6		27.6		22.8	
WET CHEMISTRY								
TPHC	54.2		480		176		36	

Table 15
Remedial Investigation Analytical Data
(AOC #17) Potwash Area - Stormwater
Florasynth, Inc. Teterboro, N.J.

Sample ID	FracTank-81297-1	Excavation-81297
Lab Sample Number	16173	16174
Sampling Date	8/12/97	8/12/97
Matrix	WATER	WATER
Dilution Factor	25	1
Units	ug/l	ug/l

VOLATILE COMPOUNDS (GC/MS)

Trichlorofluoromethane	150		0.2	U
Toluene	11		13	
Total Confident Conc. VO	161		13	
Total Estimated Conc. VO	8422		96	

SEMIVOLATILE COMPOUNDS (GC/MS)

Diethylphthalate	3500		26	
bis(2-Ethylhexyl)phthalate	2700		590	
Total Confident Conc. BN	6200		616	
Total Estimated Conc. BN	72940		1449	

Sample ID	FracTank-81297-1	Excavation-81297
Lab Sample Number	16173	16174
Sampling Date	8/12/97	8/12/97
Matrix	WATER	WATER
Dilution Factor	1	1
Units	ug/L	ug/L

PESTICIDES/PCBs

Aroclor-1016	0.2	U	0.2	U
Aroclor-1221	0.4	U	0.4	U
Aroclor-1232	0.1	U	0.1	U
Aroclor-1242	0.4	U	0.4	U
Aroclor-1248	0.3	U	0.3	U
Aroclor-1254	0.4	U	0.4	U
Aroclor-1260	0.1	U	0.1	U

Table 15
Remedial Investigation Analytical Data
(AOC #17) Potwash Area - Stormwater
Florasynth, Inc. Teterboro, N.J.

Sample ID	FracTank-81297-1		Excavation-81297	
Lab Sample Number	16173		16174	
Sampling Date	8/12/97		8/12/97	
Matrix	WATER		WATER	
Dilution Factor	NA		NA	
Units	ug/l		ug/l	
METALS				
Antimony	5.3	U	5.3	U
Arsenic	15.1		9	
Beryllium	0.3	U	0.36	
Cadmium	0.4	U	0.4	U
Chromium	5.1		2	
Copper	16.1		9.9	
Lead	14.9		2.2	U
Mercury	0.1	U	0.1	U
Nickel	8.8		3.6	
Selenium	4.8	U	4.8	U
Silver	1.2	U	1.2	U
Thallium	3.8	U	3.8	U
Zinc	42.9		27.2	

Sample ID	FracTank-81297-1		Excavation-81297	
Lab Sample Number	16173		16174	
Sampling Date	8/12/97		8/12/97	
Matrix	WATER		WATER	
Dilution Factor	NA		NA	
Units	mg/l		mg/l	
WET CHEMISTRY				
TPHC	8.1		1	U

Table 16
Remedial Action Analytical Data
(AOC #18) Motor Fuel UST Liquids
Florasynth, Inc. Teterboro, N.J.

Sample ID	UST-1
Lab Sample Number	61473
Sampling Date	5/19/98
Matrix	WATER
Dilution Factor	NA
Units	ug/l

METALS

Lead	70

Note:

A sample of the liquids contained in the UST was submitted for GC Fingerprint analysis. The results of the analysis indicated the liquids were "similar to gasoline but contains primarily the aromatic portion of gasoline".

Table 17
Remedial Action Soil Analytical Data
(AOC #18) Former Motor Fuel USTs
Florasynth, Inc. Teterboro, N.J.

Sample ID	UST-1	UST-2	UST-3	UST-4	UST-5	UST-6	UST-7
Lab Sample Number	64655	64656	64657	64658	64659	64660	64661
Sampling Date	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98
Depth	10-10.5	10-10.5	10.5-11	11-11.5	10-10.5	10-10.5	10-10.5
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	50	50	50	50	50	50	50
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

VOLATILE COMPOUNDS (GC/MS)

MethyleneChloride	460	U	480	U	180	JB	190	JB	190	JB	190	JB	180	JB
Total Confident Conc. VOAs	0		0		0		0		0		0		0	
Total Estimated Conc. VOA TICs	0		0		2400		0		0		0		0	

Sample ID	UST-8	UST-9	UST-10	UST-11	UST-12	UST-13	UST-14	UST-15
Lab Sample Number	64662	64663	64664	64665	64666	64667	64668	64669
Sampling Date	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98
Depth	10-10.5	10-10.5	10-10.5	10-10.5	10-10.5	10-10.5	10-10.5	8.5-9
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	50	50	50	50	50	50	50	50
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

VOLATILE COMPOUNDS (GC/MS)

MethyleneChloride	180	J	170	J	230	JB	210	JB	150	JB	200	JB	200	JB	190	JB
Total Confident Conc. VOAs	0		0		0		0		0		0		0		0	
Total Estimated Conc. VOA TICs	0		0		0		0		0		1700		0		0	

Table 17
Remedial Action Soil Analytical Data
(AOC #18) Former Motor Fuel USTs
Florasynth, Inc. Teterboro, N.J.

Sample ID	UST-1	UST-2	UST-3	UST-4	UST-5	UST-6	UST-7	UST-8
Lab Sample Number	64655	64656	64657	64658	64659	64660	64661	64662
Sampling Date	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/4/98
Depth	10-10.5	10-10.5	10.5-11	11-11.5	10-10.5	10-10.5	10-10.5	
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS								
Lead	15.8	16.8	15.7	15.7	17.3	18.8	16.1	16.7

Sample ID	UST-9	UST-10	UST-11	UST-12	UST-13	UST-14	UST-15
Lab Sample Number	64663	64664	64665	64666	64667	64668	64669
Sampling Date	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98
Depth	10-10.5	10-10.5	10-10.5	10-10.5	10-10.5	10-10.5	8.5-9
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA	NA	NA	NA	NA	NA	NA
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
METALS							
Lead	14.7	15.3	18.2	16.6	10.6	14.3	14.9

Table 18
Remedial Action Analytical Data
(AOC #18) Motor Fuel UST Soil Classification Results
Florasynth, Inc. Teterboro, N.J

Sample ID	Stockpile-Comp-1		Stockpile-2		Stockpile-3		Stockpile-4		Stockpile-5		Stockpile-6	
Lab Sample Number	64670		64671		64672		64673		64674		64675	
Sampling Date	6/4/98		6/4/98		6/4/98		6/4/98		6/4/98		6/4/98	
Matrix	SOLID		SOLID		SOLID		SOLID		SOLID		SOLID	
Dilution Factor	NA		NA		NA		NA		NA		NA	
Units	std unit		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
WET CHEMISTRY												
Corrosivity (std units)	7.82			NR		NR		NR		NR		NR
TOX		NR	25	U	25	U	25	U	25	U	25	U
Ignitability (deg F)	>160			NR		NR		NR		NR		NR
ReactiveCyanide	25	U		NR		NR		NR		NR		NR
ReactiveSulfide	20	U		NR		NR		NR		NR		NR
TPHC		NR	231		2460		9490		191		72.7	

Sample ID	Stockpile-Comp-1	Stockpile-2	Stockpile-3	Stockpile-4	Stockpile-5	Stockpile-6
Lab Sample Number	64670	64671	64672	64673	64674	64675
Sampling Date	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	1					
Units	ug/kg					

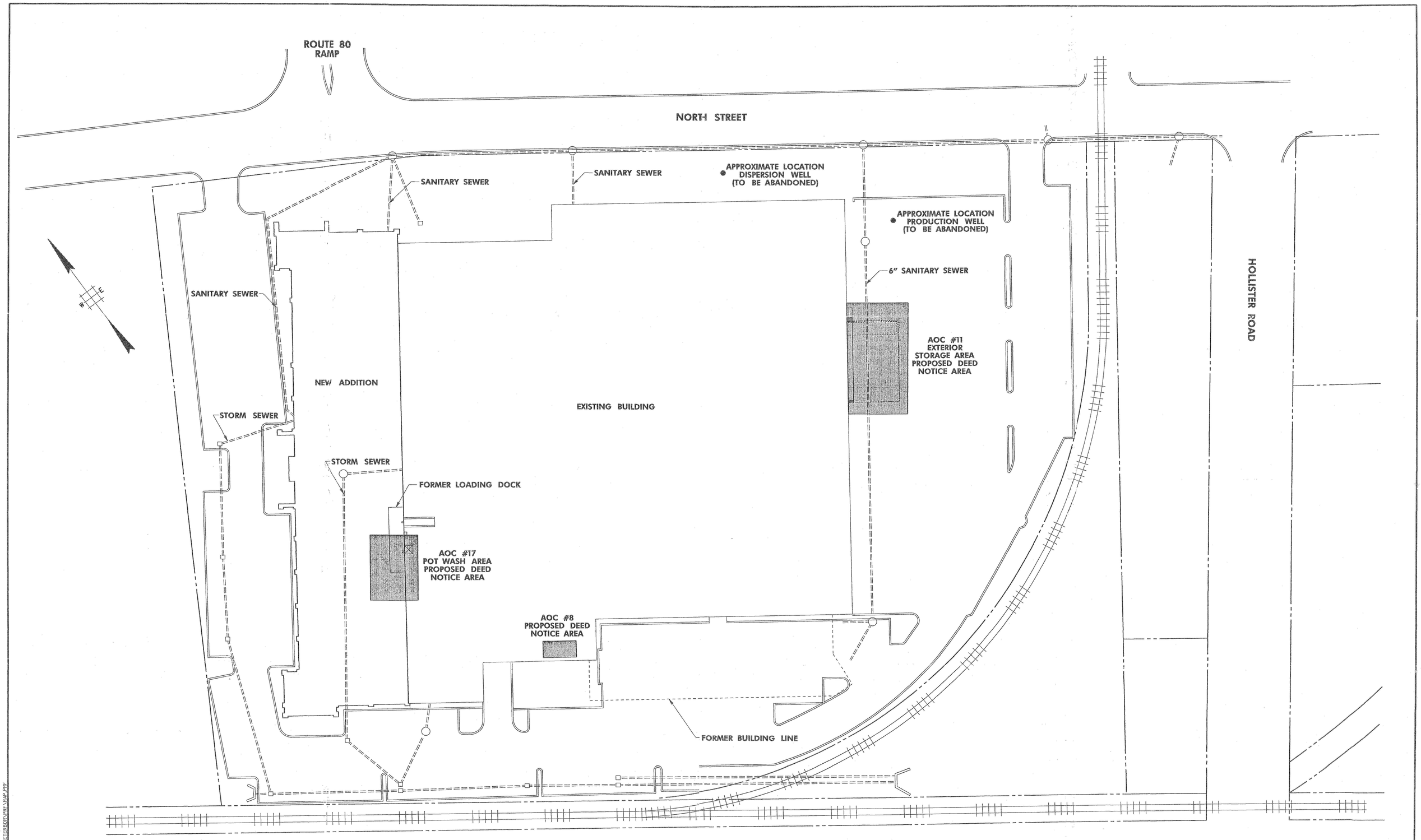
PESTICIDES/PCBs												
Aroclor-1016	79	U		NR		NR		NR		NR		NR
Aroclor-1221	79	U		NR		NR		NR		NR		NR
Aroclor-1232	79	U		NR		NR		NR		NR		NR
Aroclor-1242	79	U		NR		NR		NR		NR		NR
Aroclor-1248	79	U		NR		NR		NR		NR		NR
Aroclor-1254	79	U		NR		NR		NR		NR		NR
Aroclor-1260	79	U		NR		NR		NR		NR		NR
Aroclor-1262	79	U		NR		NR		NR		NR		NR
Aroclor-1268	79	U		NR		NR		NR		NR		NR

Table 18
Remedial Action Analytical Data
(AOC #18) Motor Fuel UST Soil Classification Results
Florasynth, Inc. Teterboro, N.J

Sample ID	Stockpile-Comp-1	Stockpile-2	Stockpile-3	Stockpile-4	Stockpile-5	Stockpile-6
Lab Sample Number	64670	64671	64672	64673	64674	64675
Sampling Date	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98	6/4/98
Matrix	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
Dilution Factor	NA					
Units	mg/kg					

METALS

Arsenic		7.2			NR		NR		NR		NR		NR
Barium		82.5			NR		NR		NR		NR		NR
Cadmium		0.094	U		NR		NR		NR		NR		NR
Chromium		20.1			NR		NR		NR		NR		NR
Copper		23.5			NR		NR		NR		NR		NR
Lead		15.4			NR		NR		NR		NR		NR
Mercury		0.02	B		NR		NR		NR		NR		NR
Nickel		26.6			NR		NR		NR		NR		NR
Selenium		1.1	U		NR		NR		NR		NR		NR
Silver		0.33	U		NR		NR		NR		NR		NR
Zinc		68.9			NR		NR		NR		NR		NR



NOTE:
ADAPTED FROM
DRAWING 19-SP-01.DWG
PREPARED BY
MADER, SMYTH, BUYYOUNOUSKI
01-01-97

Baker
A Unit of Michael Baker Corporation

BAKER ENVIRONMENTAL
PRINCETON, NEW JERSEY

FACILITY SITE PLAN

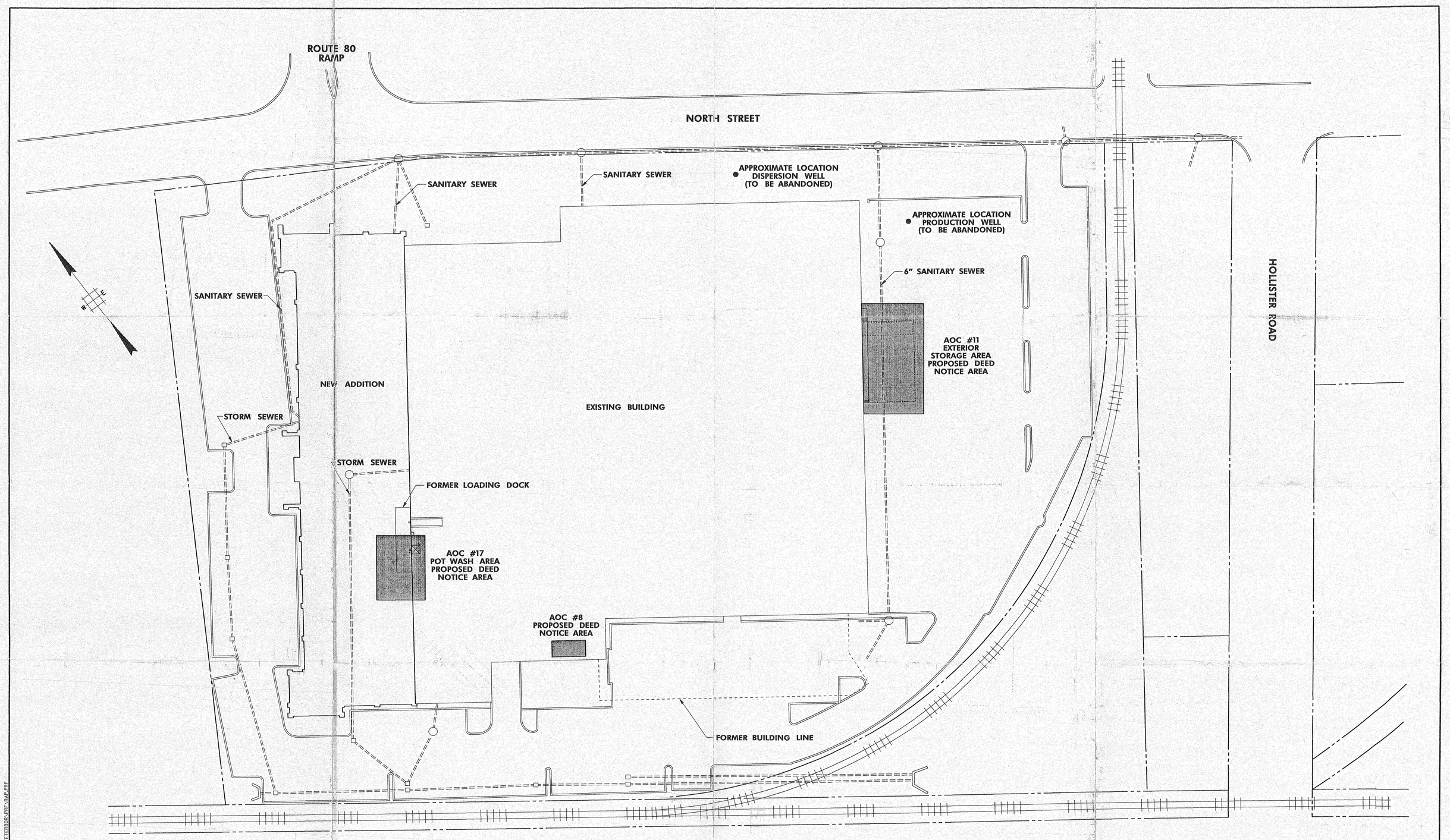
REMEDIAL ACTION PLAN

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

FIGURE 9 ISRA CASE No. 95108

SCALE: 1" = 30' DATE: 10-7-98

FASMA TETERBOR\RAP.DGN 11/30/98 FASMA TETERBOR\PRR-RAP.PRF



NOTE:
ADAPTED FROM
DRAWING 19-SP-01.DWG
PREPARED BY
MADER, SMYTH, BUYYOUNOUSKI
01-01-97

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BAKER ENVIRONMENTAL
PRINCETON, NEW JERSEY

FACILITY SITE PLAN

REMEDIAL ACTION PLAN

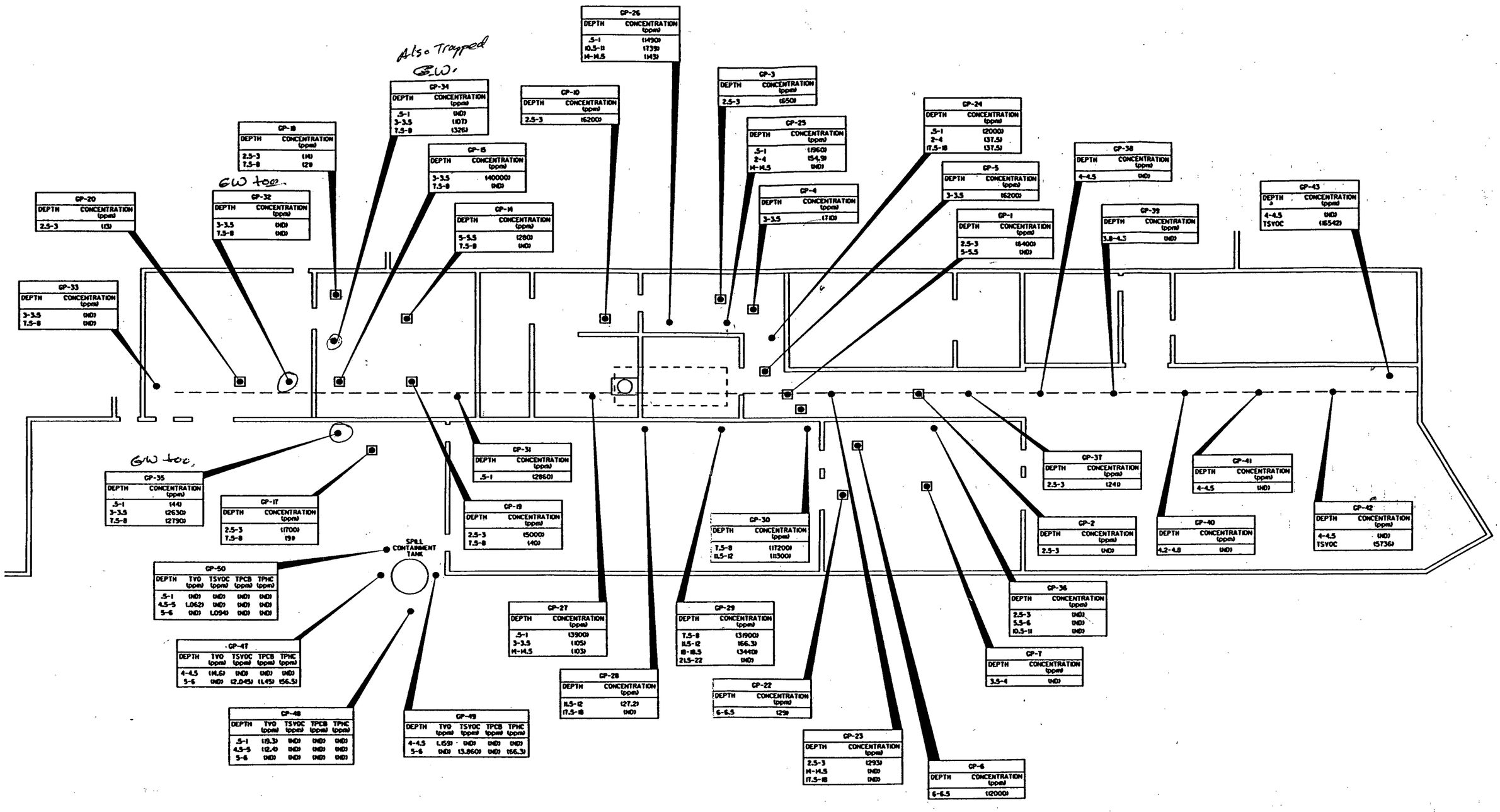
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

FIGURE 9 ISRA CASE No. 95108

SCALE: 1" = 30' DATE: 10-7-98

F:\SM\TETERBOR\RAP.DGN 11/30/98 F:\SM\TETERBOR\PRF\RAP.PRF

Site Location Map	Figure 2
	Baker Environmental, Inc.



LEGEND

- PREVIOUS SAMPLE LOCATION
- RI SAMPLE LOCATION

TPHC - TOTAL PETROLEUM HYDROCARBONS

PPM - PARTS PER MILLION

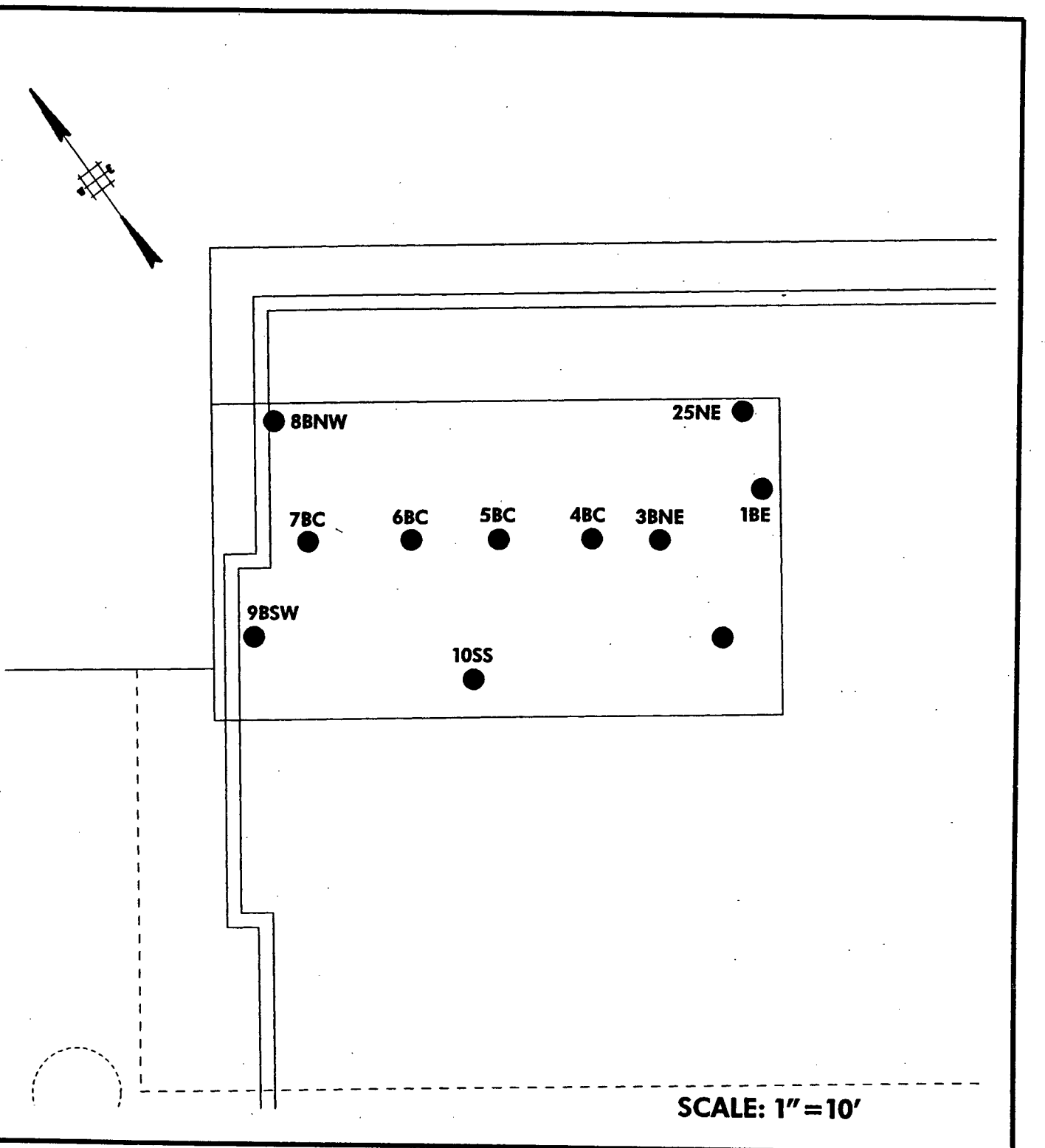
FLORASYNTH, INC. — **SITE INVESTIGATION/REMEDIAL INVESTIGATION**

FIGURE 3
HISTORIC AND RI SAMPLING LOCATIONS

Baker Environmental, Inc.

307 College Road East
Princeton, NJ 08540
(609) 734-7900

SCALE:	DATE:	SD. NO.	FILE NAME:
1/16"=1'-0"	SEPT. 22, 1997	22680-000-0000-00002	F:\ SMI\TETERBOR\TPHR.DGN



Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 4A

AREA OF CONCERN #8
20,000 GALLON NO. 4 FUEL OIL UST
RA POST EXCAVATION
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

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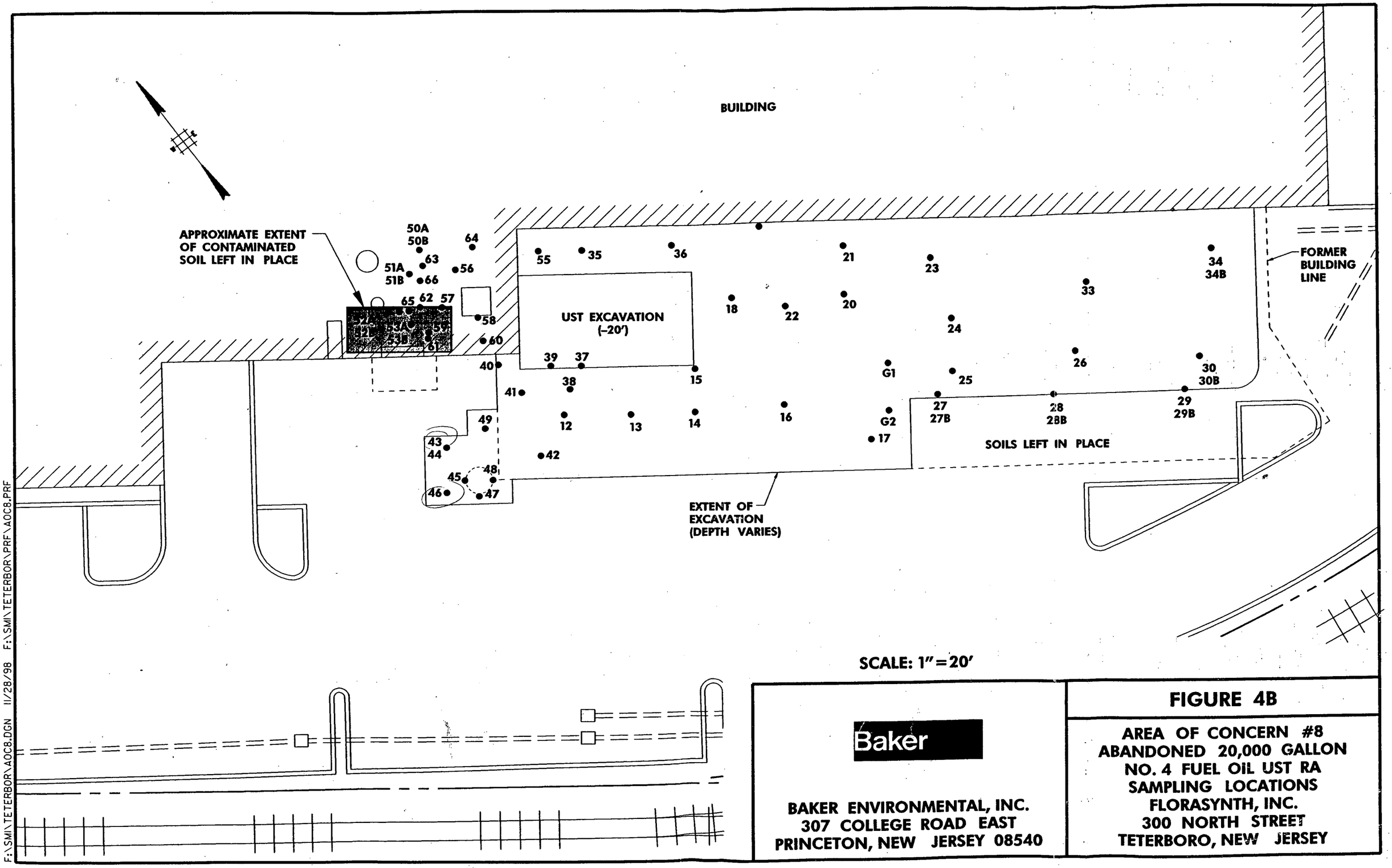
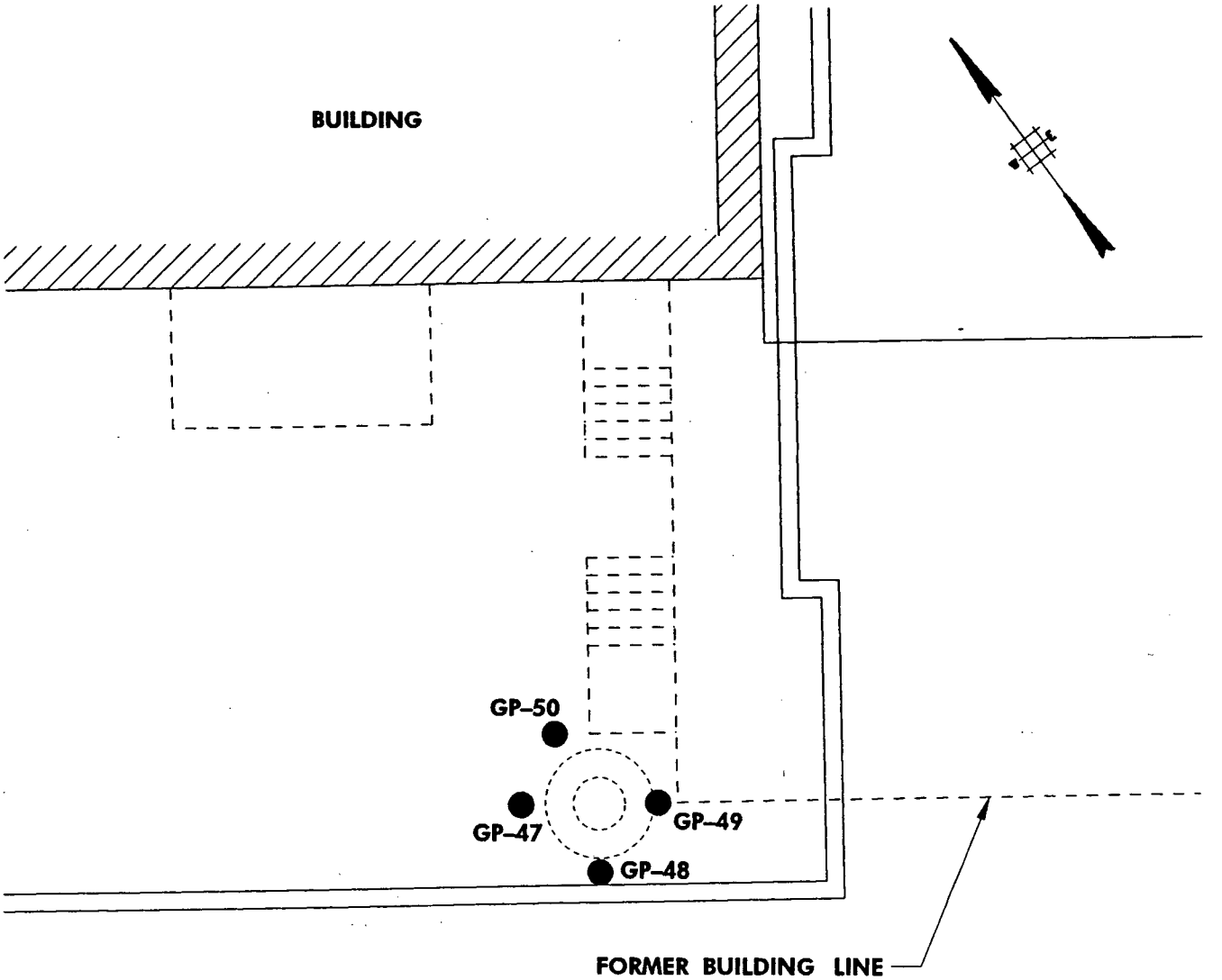

BUILDING
APPROXIMATE EXTENT OF CONTAMINATED SOIL LEFT IN PLACE
50A
50B
64
63
51A
51B
56
66
65
62
57
58
60
61
55
35
36
21
23
34
34B
33
FORMER BUILDING LINE
UST EXCAVATION (-20')
18
22
20
24
26
30
30B
39
37
40
38
15
G1
25
41
27
27B
28
28B
29
29B
49
12
13
14
16
G2
17
43
44
42
45
48
46
47
SOILS LEFT IN PLACE
EXTENT OF EXCAVATION (DEPTH VARIES)
SCALE: 1"=20'
Baker
BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540
FIGURE 4B
AREA OF CONCERN #8
ABANDONED 20,000 GALLON
NO. 4 FUEL OIL UST RA
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY
F:\SMI\TETERBOR\AOC8.DGN 11/28/98 F:\SMI\TETERBOR\PRF\AOC8.PRF



SCALE: 1" = 10'

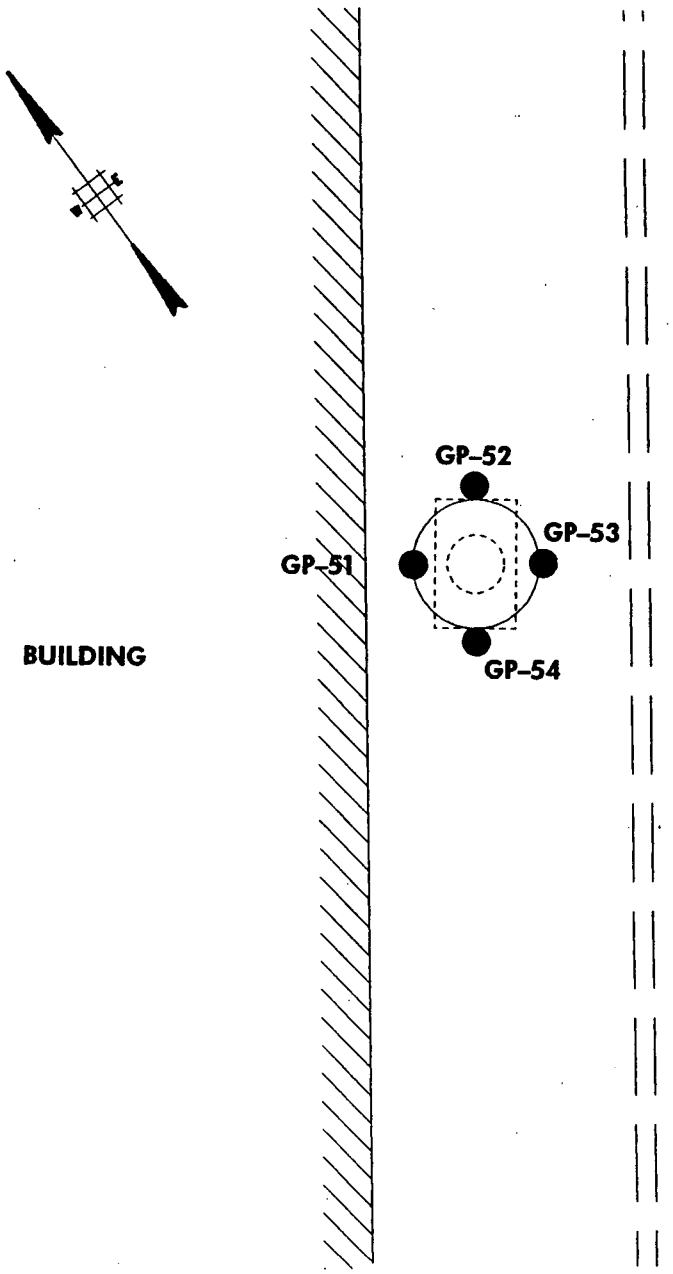
Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5A

AREA OF CONCERN #10a
SPILL CONTAINMENT TANK DETAIL
OUTSIDE FORMER NATURAL
PRODUCTS AREA
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

F:\SMI\TETERBOR\AOC10A.DGN 11/28/98 F:\SMI\TETERBOR\PRF\AOC10A.PRF



SCALE: 1" = 10'

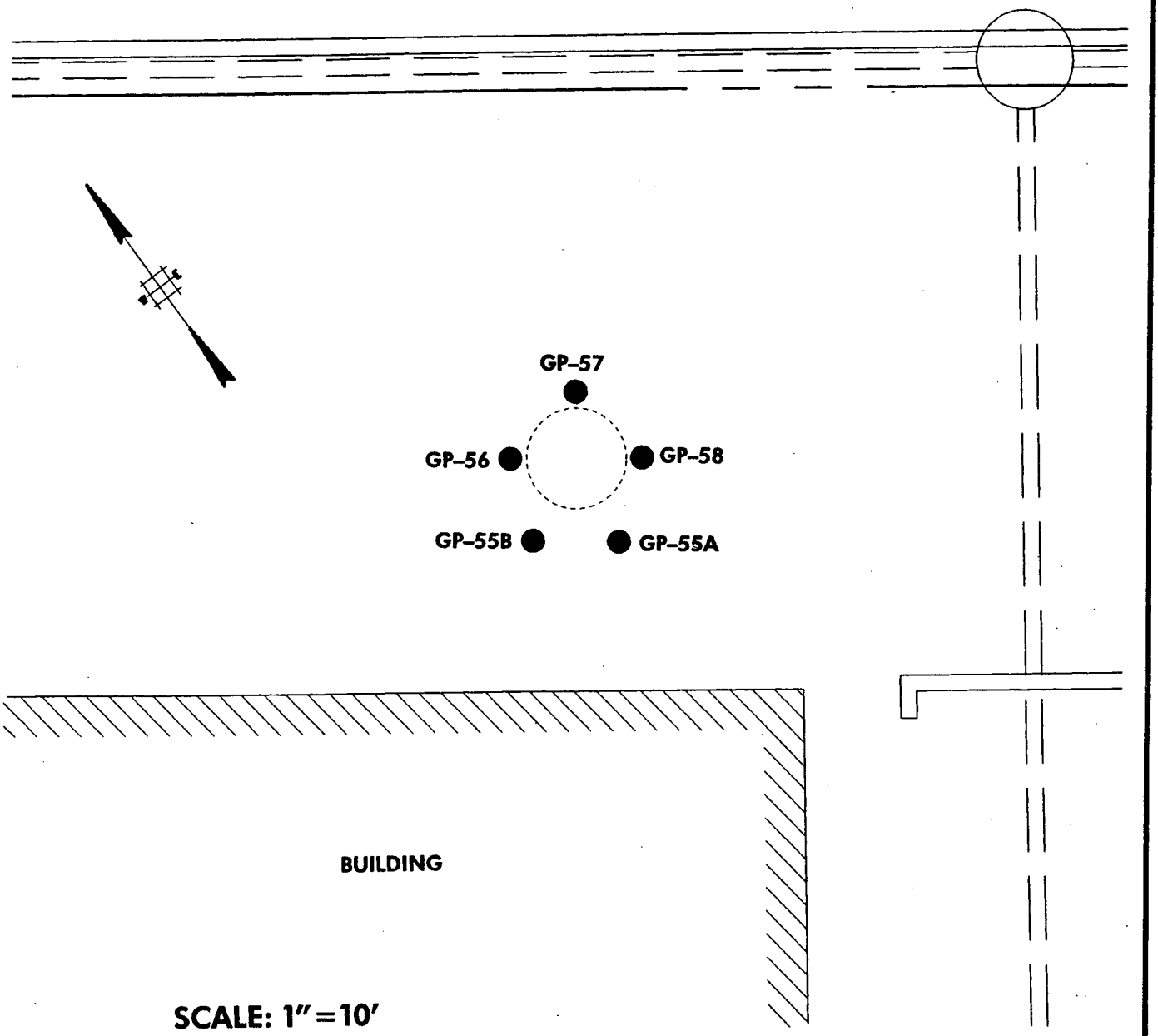
Baker

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5B

AREA OF CONCERN #10b
SPILL CONTAINMENT TANK DETAIL
LOADING DOCK AREA
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

F:\SMI\TETERBOR\AOC10B.DGN 11/28/98 F:\SMI\TETERBOR\PRF\AOC10B.PRF



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307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 5C

AREA OF CONCERN #10c
SPILL CONTAINMENT TANK DETAIL
FRONT OF BUILDING
SOIL BORING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

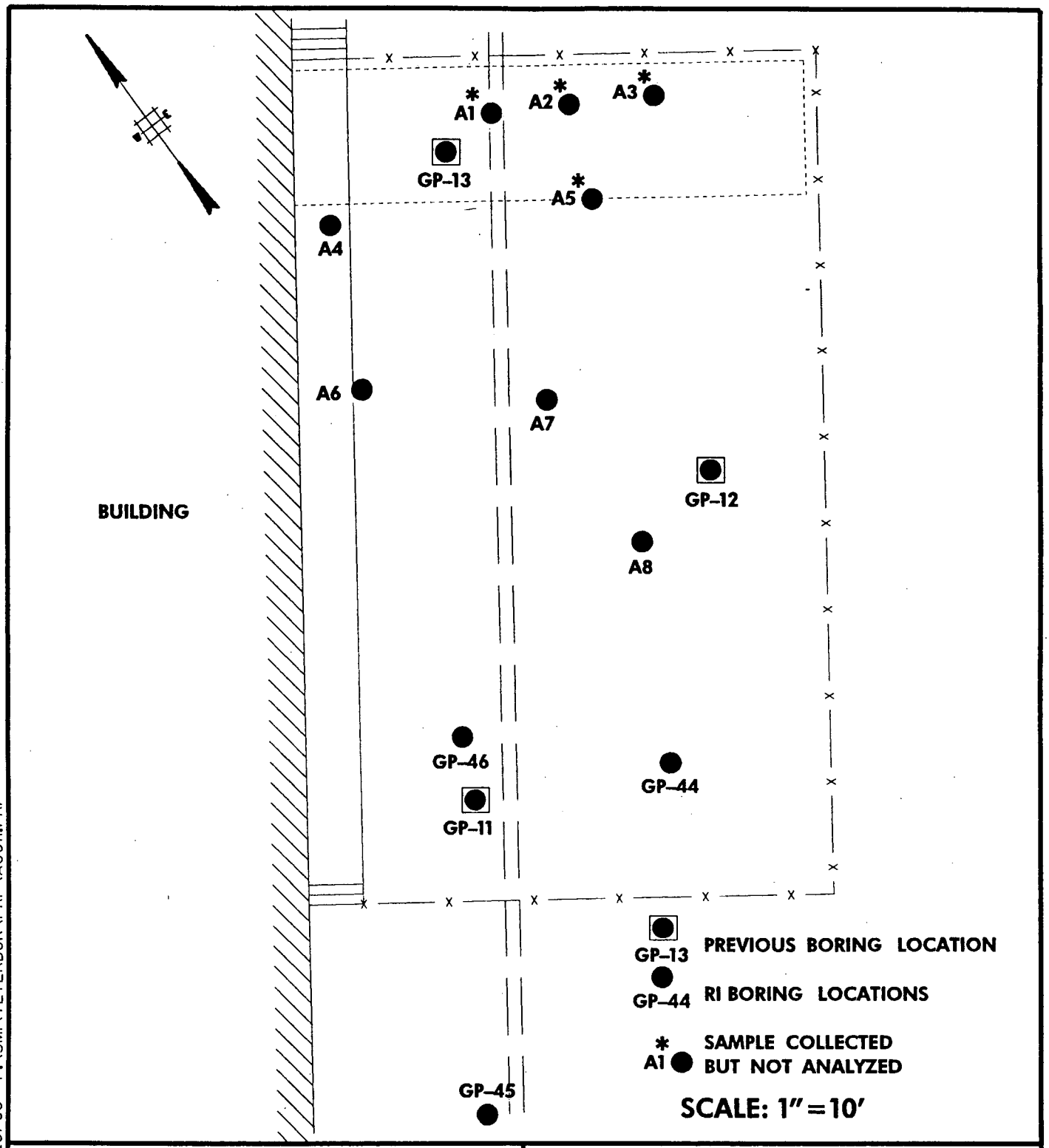

FIGURE 6

Baker

AREA OF CONCERN #11
EXTERIOR STORAGE AREA
ADDITIONAL SAMPLING LOCATIONS

BAKER ENVIRONMENTAL, INC.
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

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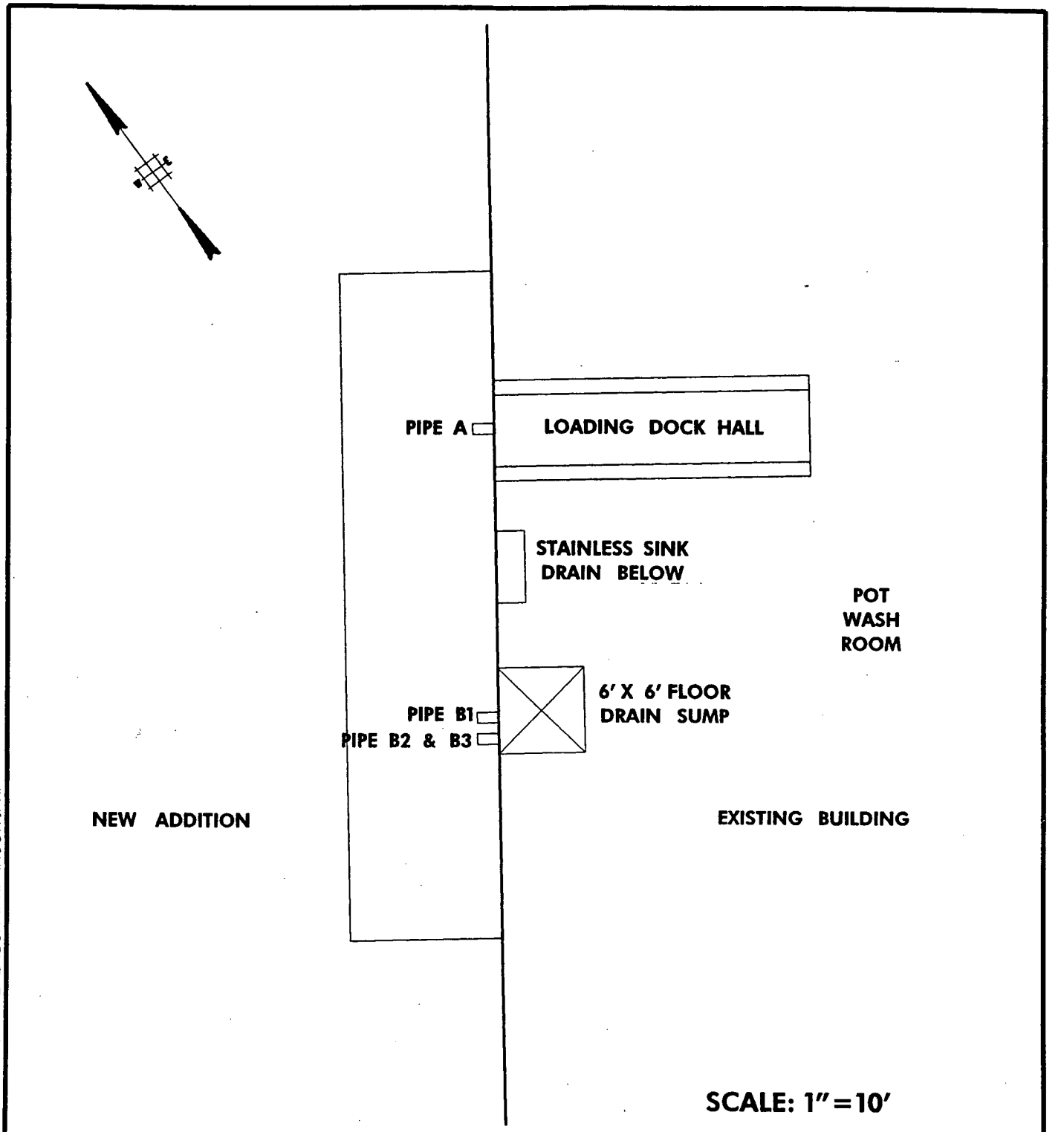

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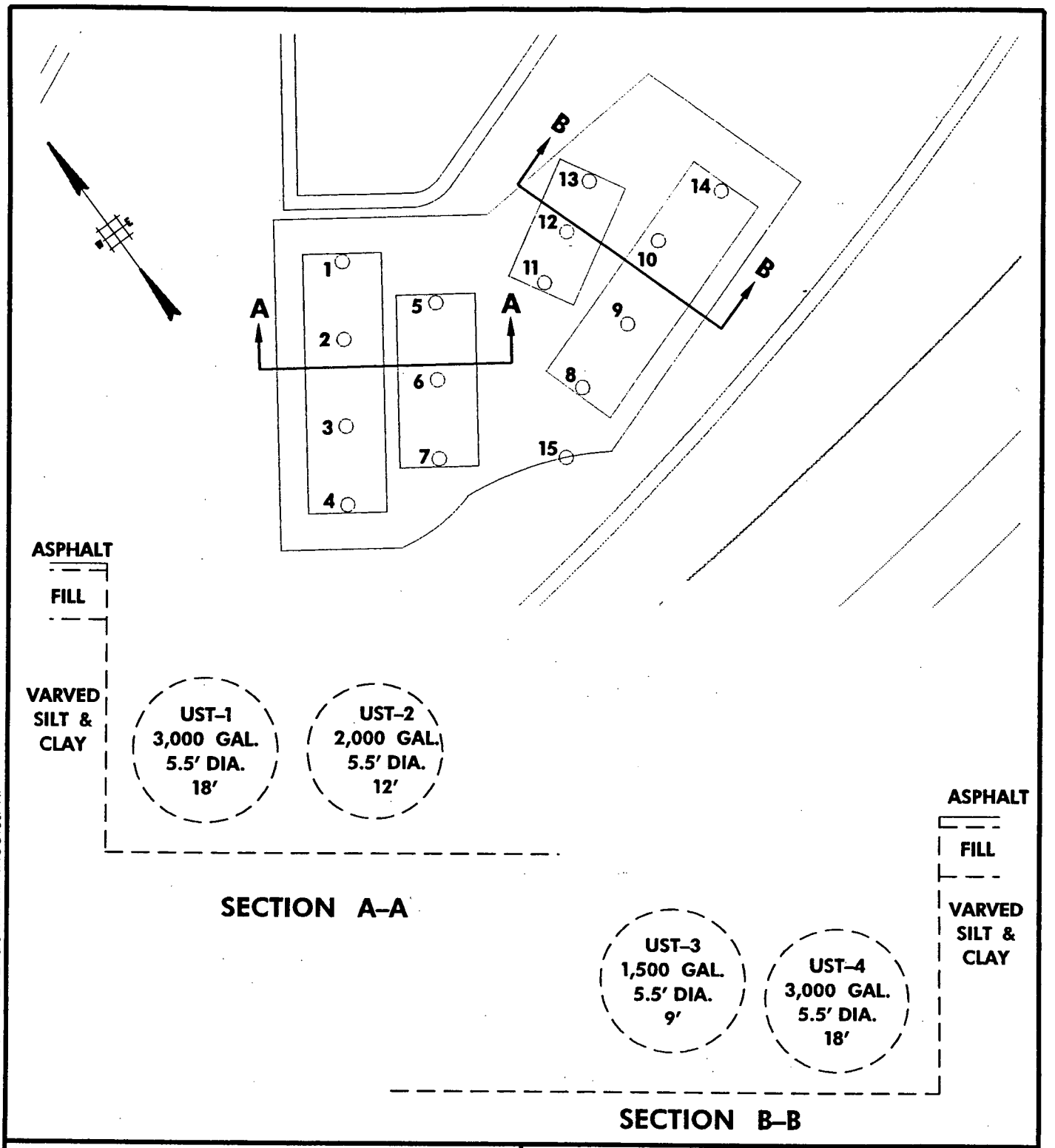
307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 7

AREA OF CONCERN #17
POT WASH AREA
RA POST EXCAVATION
SAMPLING LOCATIONS
FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

F:\SMI\TETERBOR\AOCI7.DGN 11/28/98 F:\SMI\TETERBOR\PRF\AOCI7.PRF



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307 COLLEGE ROAD EAST
PRINCETON, NEW JERSEY 08540

FIGURE 8

AREA OF CONCERN #18
FORMER MOTOR FUEL
UNDERGROUND STORAGE TANKS

FLORASYNTH, INC.
300 NORTH STREET
TETERBORO, NEW JERSEY

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Appendix A
Soil Boring Logs

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 23		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	E. UST, Hall off Butter Room	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not Encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
23 A	2.5 3.0	Mottled brown silty clay (CL)	C	Moist 4-6 ppm
23 B	14.0 14.5	Red brown varved silty clay and clayey silt (CL-ML)		0 ppm
23 C	17.5 18.0	Red brown varved silt and clay (CL-ML)		0 ppm
		CD= 18'		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 24
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. UST, Hall off Butter Room	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/97	13:51	18		6"		Perched in fill

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
24 A	0.5 1.0	Black oil stained silty clay (CL)	F	Wet 5-7 ppm
24 B	2.0 4.0	Gray silty clay (CL)		Moist 0 ppm
			C	
		No recovery 14-16'		
24 C	17.5 18.0	Red brown varved silt and clay (CL-ML)		Wet 0 ppm
		CD= 18'		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 25
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	N.E. UST, Hall off Butter Room	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/97	14:52	4'		6"		Perched below floor slab

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
25 A	0.5 1.0	Black oil stained silty clay (CL)	F	Wet 3-5 ppm
25 B	2.0 4.0	Black oil stained silty clay (CL)		Moist 3-5 ppm
			C	
25 C	14.0 14.5	Brown varved silt and clay (CL-ML)		0 ppm
25 D	17.5 18.0	Red brown varved silt and clay (CL-ML)		0 ppm
		PPNDP set to 12'		
		CD= 18		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 26
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	N. UST, Hall off Butter Room	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/97	16:02	4'		6"		Perched below floor slab

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
26 A	0.5 1.0	Black oil stained silty clay (CL)	F	3-4 ppm
26 B	10.5 11.0	Tan red brown varved silt and clay (CL-ML)		0 ppm
			C	
26 C	14.0 14.5	Tan red brown varved silt and clay (CL-ML)		0 ppm
		CD= 14.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 27		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	W. UST, Maintenance Room	**Date Started:**	7/30/97
Inspector:	R. Fenz	**Date Completed:**	7/30/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	8:53	4'		6"		During drilling
7/30/97	14:40	14.5	5	6"		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
27 A	0.5 1.0	Black oil stained silty clay (CL)	F	400 ppm
				oil stained
27 B	3.0 3.5	Gray silty clay (CL)	F	500 ppm
27 C	14.0 14.5	Brown silty f-m sand (SM)	F	100 ppm
		(Red brown silty clay in tip)	C	
		PPNDP installed to 5'		oil on water
		CD= 14.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 28
Coordinates:		**Elevation:**	
Boring Loc.:	So. UST, Natural Products area	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	7/30/97
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	7/30/97
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
		crushed stone to 4'		0 ppm
		Gray silty clay (CL)		
28 A	11.5 12.0	Gray and black mottled silty clay (CL)		0 ppm
28 B	17.5 18.0	Gray varved silt and clay (CL-ML)	C	0 ppm
		CD= 18		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 29
Elevation:
Datum:
Date Started: 7/30/97
Date Completed: 7/30/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: So. UST, Natural Products area
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
		crushed stone to 3'		
		Gray silty clay (CL)		1000 ppm
29 A	7.5 8.0	Gray silty clay (CL) oil stained at 8'		
			C	
29 B	11.5 12.0	Gray and red brown silt and clay (CL-ML)		1500 ppm
29 C	18.0 18.5	Dark gray varved silt and clay (CL-ML)		1500 ppm
		oil stained at 18'		
29 D	21.5 22.0	Dark gray varved silt and clay (CL-ML)		1500 ppm
		CD= 22		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 30
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	S.E. UST, Natural Products area	**Date Started:**	7/30/97
Inspector:	R. Fenz	**Date Completed:**	7/30/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			6" concrete slab		
30 A	7.5	8.0	Mottled black and gray silty clay (CL)	F	800 ppm
30 B	11.5	12.0	Mottled black and gray silty clay (CL)		
					Refusal at 12'
			CD= 12		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 31
Elevation:
Datum:
Date Started: 7/30/97
Date Completed: 7/30/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: W. UST, Product lines, Maintenance Room
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	11:20	2'		6"		Perched below floor slab
7/31/98	7:21	2'		6"		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
31 A	0.5 1.0	Gray brown silty f-m sand (SM)	F	500 ppm
		Gray silty clay (CL)		
				Product supply line visible
				Oil on water in open hole
		CD= 2		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 32
Coordinates:		**Elevation:**	
Boring Loc.:	W. UST, Product lines, Boiler Room	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	7/30/97
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	7/30/97
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	12:33	8'		2-3'		During drilling
7/30/97	14:40	8'		2'		

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
				3 ppm
32 A	3.0 3.5	Brown f-m sand, tr. silt (SP)		
			F	
32 B	7.5 8.0	Brown varved silt and clay (CL-ML)		3 ppm
			C	
		PPNDP installed to 8'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 33
Elevation:
Datum:
Date Started: 7/30/97
Date Completed: 7/30/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: W. UST, Product lines, Boiler Room
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	12:46	4'		1'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
		Brown f sand, little silt (SM) to 3'	F	wet 0 ppm
33 A	3.0 3.5	Brown silty clay (CL)		
33 B	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 34
Coordinates:		**Elevation:**	
Boring Loc.:	W. UST, Maintenance Room	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	7/30/97
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	7/30/97
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	11:28	4'		4'		Encountered during drilling
7/30/97	14:40	8'	5'	4.2		

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
34 A	0.5 1.0	Black oil stained silty clay (CL)	F	500 ppm
34 B	3.0 3.5	Gray silty clay (CL)		500 ppm
34 C	7.5 8.0	Gray varved silt and clay (CL-ML)		200 ppm
		PPNDP installed to 5'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 35
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	Transformer Area, South of Maintenance Room	**Date Started:**	7/30/97
Inspector:	R. Fenz	**Date Completed:**	7/30/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/30/97	13:41	8'	8'	6"		Encountered during drilling
7/31/97	7:21	8'	8'	5.3'		Next day

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab		
35 A	0.5 1.0	Gray silty clay, little f-c sand (CL)	F	0 ppm
35 B	3.0 3.5	Gray silty clay (CL)		0 ppm
			C	
35 C	7.5 8.0	Gray silty clay (CL)		2 ppm
		PPNDP installed to 8'		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 36		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	S.E. UST, Natural Products area	**Date Started:**	7/30/97
Inspector:	R. Fenz	**Date Completed:**	7/30/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			6" concrete slab	F	
			12" crushed stone		
36 A	2.5	3.0	Dark gray silty clay (CL)		200 ppm
				C	
36 B	5.5	6.0	Dark gray and black silty clay (CL)		250 ppm
					600-1000 ppm
36 C	10.5	11.0	Mottled brown silty clay (CL)		Crushed stone ravels in hole
			CD= 11		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 37		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	E. UST, Hallway ramp	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/29/97	8:02	4'		3'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" concrete slab	F	
37 A	2.5 3.0	Brown silty f-m sand (SM)		4-6 ppm
				4" void below conc. slab
		CD= 3		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 38
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. UST, Fill line, Warehouse	**Date Started:**	7/29/97
Inspector:	R. Fenz	**Date Completed:**	7/29/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Water on soil surface at 4'

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			8" concrete slab	Void	
38 A	4.0	4.5	Mottled gray brown silty clay (CL)		3-5 ppm
				C	
					4' void below slab
					Fill line on hanger below slab
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 39		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	E. UST, Fill line, Warehouse	**Date Started:**	7/28/97
Inspector:	R. Fenz	**Date Completed:**	7/28/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Water on soil surface at 3.5'

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
39 A	3.8 4.3	Mottled gray brown silty clay (CL)		2-3 ppm
			C	Sheen on soil
				4' void below slab
		CD= 4.3		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 40		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	E. UST, Fill line, Warehouse	**Date Started:**	7/28/97
Inspector:	R. Fenz	**Date Completed:**	7/28/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Water on soil surface at 3.5'

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
40 A	4.2 4.8	Mottled gray brown silty clay, little f. sand (CL)		1-3 ppm
			C	
				4' void below slab
		CD= 4.8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 41
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. UST, Fill line, Warehouse	**Date Started:**	7/28/97
Inspector:	R. Fenz	**Date Completed:**	7/28/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Water on soil surface at 3.5'

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
41 A	4.0 4.5	Mottled gray brown silty clay (CL)		0 ppm
			C	
				4' void below slab
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 42
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. UST, Fill line, Warehouse	**Date Started:**	7/28/97
Inspector:	R. Fenz	**Date Completed:**	7/28/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Water on soil surface at 3.5'

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			8" concrete slab	Void	
42 A	4.0	4.5	Mottled gray brown silty clay (CL)		0 ppm
				C	
					4' void below slab
			CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 43
Elevation:
Datum:
Date Started: 7/28/97
Date Completed: 7/28/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: E. UST, Fill line, Warehouse
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		8" concrete slab	Void	
43 A	4.0 4.5	Mottled gray brown silty clay, some f. sand (CL)		1 ppm
			C	
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 44
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	Ext. Storage Area, S.E. Corner	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		4" asphalt	F	
44 S1	0.5 1.0	Gray silty clay (CL)	C	0 ppm
44 S2	2.5 3.0	Gray silty clay (CL)		0 ppm
44 S3	4.0 4.5	Gray silty clay (CL)		0 ppm
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 45
Elevation:
Datum:
Date Started: 7/31/97
Date Completed: 7/31/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: Ext. Storage Area, South of fenceline
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" asphalt		
45 S1	0.5 1.0	Brown f. sand, trace silt (SP)	F	0 ppm
			C	
45 S2	2.5 3.0	Gray silty clay (CL)		0 ppm
45 S3	4.0 4.5	Gray silty clay (CL)		0 ppm
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 46
Coordinates:		**Elevation:**	
Boring Loc.:	Ext. Storage Area, E. steel stairs	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	7/31/97
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	7/31/97
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		6" asphalt		
46 S1	0.5 1.0	Brown f-c sand, some silt, little f gravel (SM)	F	0 ppm
46 S2	2.5 3.0	Gray silty clay (CL)	C	0 ppm
46 S3	4.0 4.5	Gray silty clay (CL)		0 ppm
		CD= 4.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 47
Elevation:
Datum:
Date Started: 7/31/97
Date Completed: 7/31/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: W. Rear Spill UST
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		crushed stone	F	
			C	
		Gray and red brown silt and clay (CL-ML)		0 ppm
47 S1	4.5 5.0			
47 S2	5.0 6.0	Gray and red brown silt and clay, little f-m sand		0 ppm
		(CL-ML)		
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 48
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	S. Rear Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		crushed stone	F	
48 S1	0.5 1.0	Brown silty clay	C	25 ppm
48 S2	4.5 5.0	Brown silty clay (CL)		5-10 ppm
48 S3	5.0 6.0	Brown silty clay (CL)		5-10 ppm
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 49
Elevation:
Datum:
Date Started: 7/31/97
Date Completed: 7/31/97

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: E. Rear Spill UST
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware **Helper:** Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		crushed stone		
		Brown silty f-m sand (SM)	F	500 ppm
49 S1	4.5 5.0	Brown silty f-m sand (SM)		500 ppm
49 S2	5.0 6.0	Brown silty clay (CL)	C	
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 50
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	N. Rear Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	14:05	4'		6"		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
50 S1	0.5 1.0	Dark brown f-m sand, littlie c sand (SM)	F	1500 ppm
50 S2	4.5 5.0	Brown silty clay (CL)	C	300 ppm
50 S3	5.0 6.0	Brown silty clay (CL)		300 ppm
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 1

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Ext. Storage Area
Date Started: 4/27/98
Inspector: R. Fenz
Date Completed: 4/27/98
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
			C	
		Dark gray silty clay, little f-m sand (CL)		0-1 ppm
A1 S1	3.5 4.0			
		Brown silty clay (CL)		0-1 ppm
A1 S2	7.5 8.0			
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	A 2
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	N. Ext. Storage Area	**Date Started:**	4/27/98
Inspector:	R. Fenz	**Date Completed:**	4/27/98
Contractor:	Inland Pollution Services, Inc.		
Driller:	Jim Bryant	**Helper:**	
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark gray silty clay, little f-m sand (CL)		
		Brown f sand lense 6-8"	F	0 ppm
A2 S1	3.5 4.0			
		Dark gray silty clay, little f-m sand (CL)		0 ppm
		Brown silty clay 6-8' (CL)	C	
A2 S2	7.5 8.0			
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 3

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: N. Ext. Storage Area
Date Started: 4/27/98
Inspector: R. Fenz
Date Completed: 4/27/98
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant
Helper:
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	
				0 ppm
A3 S1	3.5 4.0	Dark gray silty clay .5-5' (CL)	C	
		Brown silty clay 5-8' (CL)		0 ppm
A3 S2	7.5 8.0			
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: A 4
Elevation:
Datum:
Date Started: 4/27/98
Date Completed: 4/27/98

Project: Florasynth, Inc.
Coordinates:
Boring Loc.: W. Ext. Storage Area
Inspector: R. Fenz
Contractor: Inland Pollution Services, Inc.
Driller: Jim Bryant **Helper:**
Rig: Geoprobe

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.	Sample Depth		Sample Description	Strata	Remarks
			Dark brown f-m sand, some silt (SM)		1-5 ppm
A4 S1	3.5	4.0	Dark gray silty clay, little f-m sand (CL)		0-1 ppm
			Dark gray silty clay, little f-m sand (CL)	F	odor 3-6'
A4 S2	7.5	8.0	Brown silty clay (CL)	C	
			CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	A 5
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	Center Ext. Storage Area	**Date Started:**	4/27/98
Inspector:	R. Fenz	**Date Completed:**	4/27/98
Contractor:	Inland Pollution Services, Inc.		
Driller:	Jim Bryant	**Helper:**	
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark gray silty clay, little f-m sand (CL)	F	
		Brown silty clay (CL)		0 ppm
A5 S1	3.5 4.0			
			C	
A5 S2	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	A 6
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	W. Ext. Storage Area	**Date Started:**	4/27/98
Inspector:	R. Fenz	**Date Completed:**	4/27/98
Contractor:	Inland Pollution Services, Inc.		
Driller:	Jim Bryant	**Helper:**	
Rig:	Geoprobe		

Date		Time		Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
								Not encountered

Sample No.		Sample Depth		Sample Description	Strata	Remarks
				2" asphalt		10-15 ppm
				Dark gray silty clay (CL)	F	
A6	S1	3.5	4.0	Brown silty clay (CL)		0-5 ppm
					C	
A6	S2	7.5	8.0	Brown silty clay (CL)		0-5 ppm
				CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	A 7
Coordinates:		**Elevation:**	
Boring Loc.:	E. Ext. Storage Area	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	4/27/98
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	4/27/98
Driller:	Jim Bryant	**Helper:**	
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
4/27/98	13:07	4'		8 "		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		2" asphalt		10-15 ppm
		Dark brown f-c sand, little f-c gravel w/ asphalt (SM)	F	
A7 S1	3.5 4.0	Dark gray silty clay (CL)		50-60 ppm
				50-60 ppm
A7 S2	7.5 8.0	Brown silty clay (CL)	C	20-30 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	A 8		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	E. Ext. Storage Area	**Date Started:**	4/27/98
Inspector:	R. Fenz	**Date Completed:**	4/27/98
Contractor:	Inland Pollution Services, Inc.		
Driller:	Jim Bryant	**Helper:**	
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
						Not encountered

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		2" asphalt		
		Dark gray silty clay, little f-c sand (CL)	F	5-10 ppm
A8 S1	3.5 4.0	Gray silty clay (CL)		
				0-5 ppm
		Brown silty clay (CL)	C	
A8 S2	7.5 8.0			0-2 ppm

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 51

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: W. Loading Dock Spill UST
Date Started: 7/31/97
Inspector: R. Fenz
Date Completed: 7/31/97
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	15:49	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand		
51 S1	5.5 6.0	Brown silty f-m sand (SM)	F	0 ppm
51 S2	6.0 6.5	Brown silty clay (CL)		0 ppm
51 S3	6.5 7.0	Brown silty clay (CL)	C	0 ppm
		CD= 7		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 52
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	N. Loading Dock Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	15:32	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, little silt (SM)	F	0 ppm
52 S1	5.0 5.5	Red brown silt (ML)		0 ppm
52 S2	5.5 6.0	Red brown silt (ML)	C	0 ppm
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 53
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. Loading Dock Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	14:22	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, tr silt (SP)		0 ppm
			F	
53 S1	5.0 5.5	Brown f-m sand, tr silt (SP)		0 ppm
53 S2	5.5 6.0	Brown f-m sand, tr silt (SP)		0 ppm
53 S3	6.0 6.5	Brown silty clay (CL)		0 ppm
			C	
		CD= 6.5		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 54		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	S. Loading Dock Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	15:20	4'		6 "		Perched

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown f-m sand, tr silt (SP)	F	0 ppm
54 S1	5.0 5.5	Red brown silty clay (CL)	C	0 ppm
54 S2	5.5 6.0			
		CD= 6		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.: GP 55A

Project: Florasynth, Inc.
Elevation:
Coordinates:
Datum:
Boring Loc.: S.E. Front Spill UST
Date Started: 7/31/97
Inspector: R. Fenz
Date Completed: 7/31/97
Contractor: Inland Pollution Services, Inc.
Driller: Frank Ware
Helper: Jim Bryant
Rig: Geoprobe

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	16:36	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	0 ppm
55A S1	1.5 2.0			
		Gravel at 2'		
		CD= 2		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 55B
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	S.W. Front Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	17:19	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Dark brown silty f-m sand (SM)	F	
				0 ppm
55B S1	1.5 2.0	Brown silty f-m sand (SM)		
55B S2	2.0 3.0	Brown silty f-m sand (SM)		
55B S3	7.0 7.5	Brown silty clay, little f sand (CL)		0 ppm
55B S4	7.5 8.0	Brown silty clay, little f sand (CL)		
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 56
Coordinates:		**Elevation:**	
Boring Loc.:	N.W. Front Spill UST	**Datum:**	
Inspector:	R. Fenz	**Date Started:**	7/31/97
Contractor:	Inland Pollution Services, Inc.	**Date Completed:**	7/31/97
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	17:09	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
56 S1	1.5 2.0	Brown clayey f-m sand, little f gravel (SC)	F	0 ppm
56 S2	2.0 2.5	Brown clayey f-m sand, little f gravel (SC)		0 ppm
56 S3	7.0 7.5	Brown silty clay (CL)	C	0 ppm
56 S4	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Boring No.:	GP 57		
Project:	Florasynth, Inc.	**Elevation:**	
Coordinates:		**Datum:**	
Boring Loc.:	N. Front Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	17:04	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)	F	0 ppm
		No recovery 2-4'		
57 S1	7.0 7.5	Brown silty clay (CL)	C	0 ppm
57 S1	7.5 8.0	Brown silty clay (CL)		0 ppm
		CD= 8		

Baker Environmental,Inc.

GEOPROBE BORING LOG

Project:	Florasynth, Inc.	**Boring No.:**	GP 58
Coordinates:		**Elevation:**	
		Datum:	
Boring Loc.:	E. Front Spill UST	**Date Started:**	7/31/97
Inspector:	R. Fenz	**Date Completed:**	7/31/97
Contractor:	Inland Pollution Services, Inc.		
Driller:	Frank Ware	**Helper:**	Jim Bryant
Rig:	Geoprobe		

Date	Time	Depth of Hole	Depth of Casing	Depth to Water	Tide Obs.	Conditions of Observation
7/31/97	16:51	2'		2'		Encountered during drilling

Sample No.	Sample Depth	Sample Description	Strata	Remarks
		Brown silty f-m sand (SM)		
58 S1	1.5 2.0	Brown silty f-m sand (SM)	F	0 ppm
58 S2	2.0 3.0	Gray silty clay (CL)		0 ppm
			C	
58 S3	7.0 7.5	Brown silty clay (CL)		0 ppm
58 S4	7.5 8.0	Brown silty clay (CL)		
		CD= 8		

APPENDIX B

LABORATORY ANALYTICAL RESULTS

(Bound Separately)