

REMEDIAL INVESTIGATION REPORT

for the

SARATOGA TREE NURSERY Inactive Hazardous Waste Disposal Site

Site No. 5-46-043 Saratoga Springs, Saratoga County, NY

April 1996

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SECTION 1: PURPOSE OF THE INVESTIGATION

In June of 1995, the New York State Department of Environmental Conservation finalized a Work Plan for the Remedial Investigation (RI) of the Saratoga Tree Nursery Site. The RI was planned in response to the identified presence of elevated levels of DDT in surface and subsurface soil on the Nursery property. The purpose of the investigation was to characterize the nature and extent of the contamination at the site.

SECTION 2: BACKGROUND

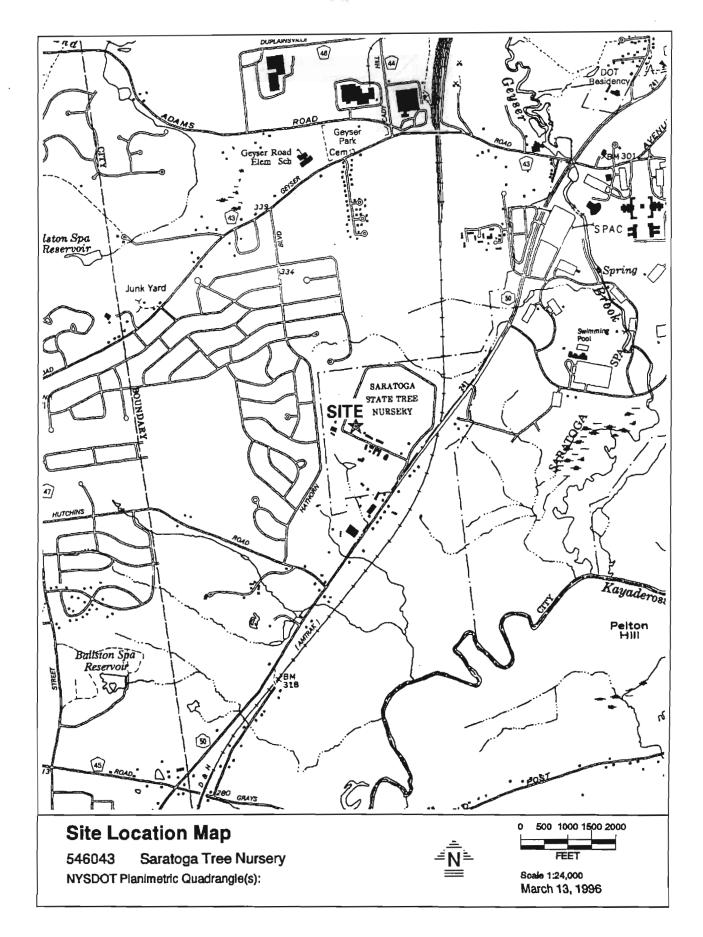
2.1 Site Description

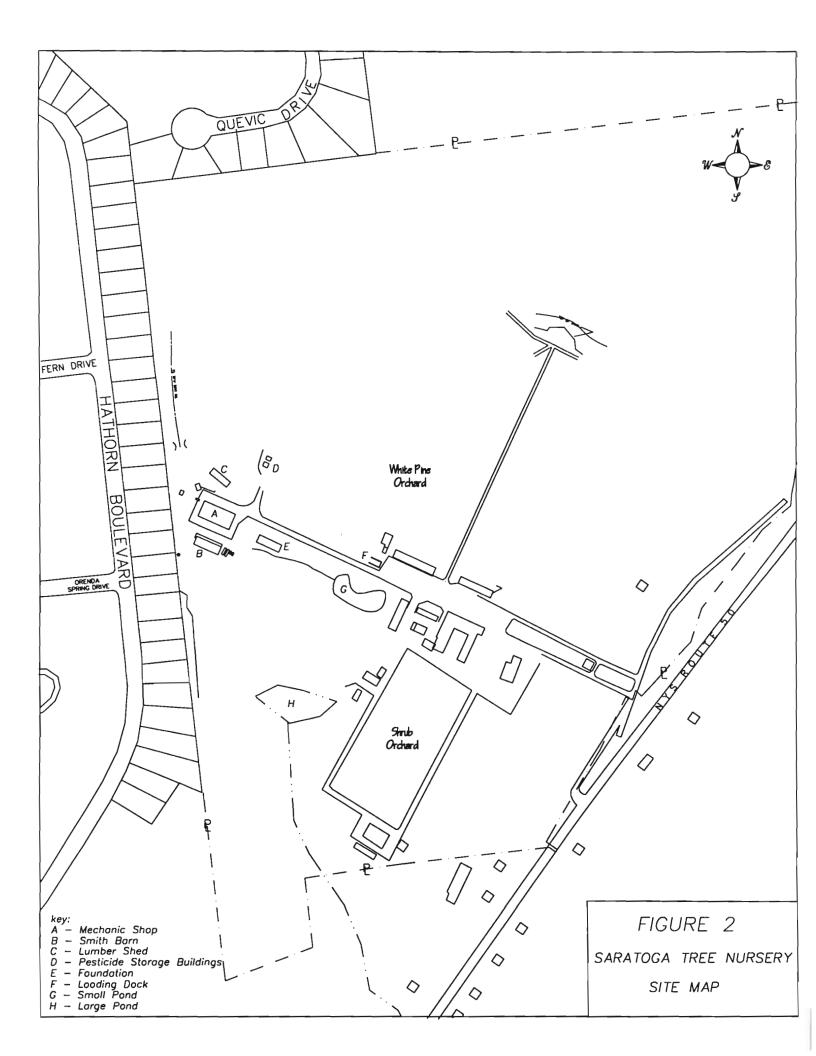
The Saratoga Tree Nursery, Site ID No. 5-46-043, is located at 431 South Broadway (Route 50) in the City of Saratoga Springs, Saratoga County. The site is situated on the north side of Route 50, west of the Conrail tracks. The site is located in a commercial/residential setting. Site topography is relatively flat, gently sloping to the southeast. The Nursery is one of two State-operated Nurseries in the City of Saratoga which are used for the production of tree and shrub seedlings used for replanting throughout New York State. Figure 1 shows the site location.

2.2 Site History

The State of New York has operated a Tree Nursery at the Route 50 location since 1911. Approximately 30 acres of the total 130 acre site have been used for Nursery related activities. About 100 acres remain forested, having never been developed for Nursery use. Two ponds and a small creek are located on the Nursery property (ref. Figure 2). Since 1969, only 12 acres of the original 30 have been used for Nursery production. The Nursery facility was originally operated by the Conservation Department before its incorporation into the Department of Environmental Conservation in 1970. Because of the acreage available and the proximity to the Saratoga County Airport, the facility was also used as a pesticide storage and mixing facility by the Bureau of Forest Insect and Disease Control. From the 1940s until 1966, the Bureau used the facility as a storage site for DDT powder and as a formulation/transfer station for DDT emulsion used in aerial spraying operations. These spraying operations were part of an effort to control the gypsy moth population in Saratoga County and surrounding regions. dichlorodiphenyltrichloroethane, is a highly effective insecticide which was widely used throughout the United States, until its ban in 1972. The formulation process used by the Bureau involved dissolving DDT powder in fuel oil and using the solution to create an oil/water emulsion. The DDT emulsion was pumped into tanker trucks which were dispatched to waiting aircraft.

It is reported that following daily operations, the tanker trucks returned to the site and were rinsed and flushed with water to remove the residual emulsion. It is reported that the rinsing operations





were conducted in the vicinity of the present Mechanic Shop (ref. Figure 2). It is believed contaminated rinse waters flowed to a low area at the western edge of the Route 50 facility. NYSDEC believes that the flushing of the tanker trucks and disposal of the residual emulsion is the primary source of the DDT contamination which has since been discovered in this area.

It has also been reported that six underground storage tanks were utilized as part of the pesticide mixing process. These tanks were reportedly located in the area west of the loading dock (ref Figure 2). These tanks are believed to have been used for storage of fuel oil, DDT and the oil/water emulsion. These tanks have since been removed. A barn, also located west of the loading dock, was reported to have been used for storage of DDT and other pesticides, during the period associated with pesticide mixing operations at the Nursery. Only the building foundation remains currently.

Through the early 1980s, pesticides awaiting final disposition are reported to have been stored in a number of on-site structures including: two small storage buildings, the Lumber Barn, the Mechanic Shop, the loading dock, the Smith Barn and in the former storage building of which only a foundation remains (ref. Figure 2). These, as well as an alleged disposal in the wood pallet/shade frame disposal area, are the only areas where DDT is reported to have been stored or handled at the Nursery facility.

In May of 1994, DDT was detected in soil samples collected at the Route 50 facility. The samples were collected as part of routine sampling for petroleum contamination required when the existing underground fuel tanks near the Mechanic Shop were replaced. Based on this discovery, Nursery staff requested the assistance of the NYSDEC Division of Hazardous Waste Remediation (DHWR), to further evaluate the nature and extent of the identified contamination.

The findings of the investigations which have since been conducted by the DHWR are detailed below. Based on the findings of these investigations, the Saratoga Tree Nursery - Route 50 facility, was listed as a class 2 site on the State's Registry of Inactive Hazardous Waste Disposal Sites in January of 1996.

SECTION 3: PREVIOUS INVESTIGATIONS

3.1 On-Site Investigations

In response to the request by Nursery staff, the DHWR tested additional locations in the vicinity of the former tanks for pesticide contamination. This follow-up sampling was conducted in the Fall of 1994.

Sampling was conducted in three separate events. The first event, which took place in October 1994, included soil sampling from sixteen locations on the western portion of the Nursery property to identify areas which may have been impacted by the past handling of DDT. Three on-site water supply wells were sampled in November 1994 as part of this sampling program. After NYSDEC reviewed the results of the first sampling round, a second round of samples was collected in December 1994. These samples were collected along the western property boundary of the facility, including nine locations adjacent to properties located on Hathorn Boulevard in the Geyser Crest Community. To better define the northern and southern limits of contamination along the fence line, samples were collected in a third sampling event in January 1995. Samples were analyzed for pesticides as well as lead and arsenic since the pesticide lead-arsenate was also reported to have been stored at the Nursery. The use of lead-arsenate was discontinued in the 1950s. Existing on-site water supply wells were also sampled for the presence of lead and arsenic.

These sampling events confirmed the presence of DDT and its breakdown products as high as 1,200 parts per million (ppm) in soil. The investigation detected low levels of DDT in groundwater in one on-site water supply well. Elevated levels of lead and arsenic were not detected in soil or groundwater samples. The findings of these sampling rounds were summarized in a report entitled "Sampling and Data Summary" dated February 1995. Data from the preliminary on-site investigations is included in Appendix A.

3.2 Off-Site Investigation

Based on the findings of the preliminary on-site sampling, an off-site investigation was developed during February of 1995 and conducted during the months of March and April. This investigation included an extensive soil sampling program which focused on private properties adjacent to the Nursery. The investigation also included background soil sampling, sampling of private well points and installation of three temporary well points. Ten residential properties which border the Nursery property were included in the off-site sampling program.

The investigation identified DDT contamination in soil above remedial levels of concern, on six of the properties sampled. Levels of DDT in soil were observed at concentrations ranging from non-detect (ND) to 62 ppm. Sampling continued on affected properties until the vertical and lateral limits of the contamination were identified. The investigation also involved analysis of groundwater samples from private well points. Three of the residences utilize well points as non-potable water supplies (lawns, pools, etc.). Samples from these well points were collected and analyzed on two occasions during the course of the investigation. The investigation demonstrated that the private well points had not been contaminated.

Three temporary well points were installed in response to the identification of an area of petroleum contamination on one of the residential properties. DDT was detected at concentrations

above the groundwater standard in samples collected from all three of the temporary well points. Details concerning soil and groundwater data collected during the off-site investigation can be found in the report entitled "Preliminary Remedial Investigation Report, Off-Site Sampling Program, Saratoga Tree Nursery" dated June 1995.

3.3 Interim Remedial Measure Program

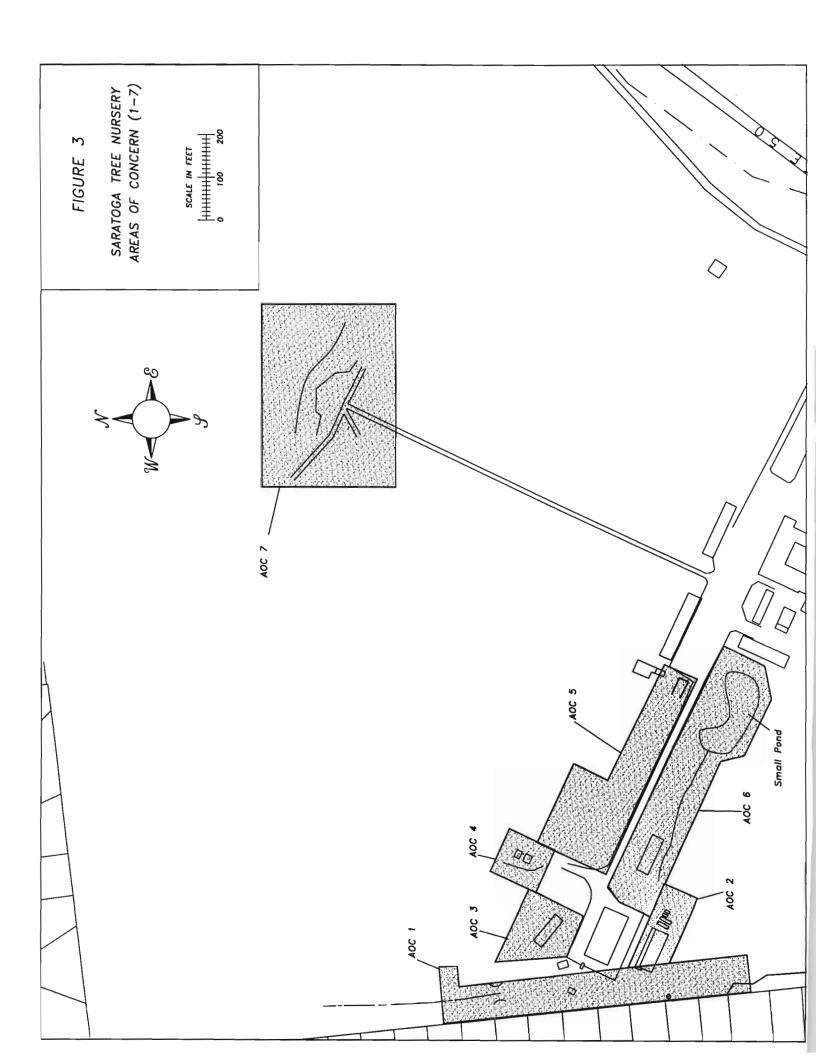
Based on the findings of the Off-Site Sampling program, an Interim Remedial Measure (IRM) Soil Removal Program was planned. In August of 1995 the NYSDEC finalized a Work Plan to address the identified off-site contamination. In September the IRM program commenced. The work resulted in the excavation and removal of approximately 250 cubic yards of contaminated soil from the six properties identified during the off-site sampling program. A small area of contamination was identified on a seventh property during the IRM. This area was also addressed as a part of the IRM. Excavations were backfilled with topsoil and seeded. Confirmatory sampling during the IRM showed that all the DDT-contaminated soil above the remedial objective of 2 ppm was removed from the private properties. The New York State Department of Health declared the properties free for unrestricted use. The excavated soil is presently stockpiled on the Nursery property and will be addressed in conjunction with the on-site soil, which is the subject of this report.

The findings of the Off-Site Sampling Program and the IRM Program revealed that the DDT contamination in soil was generally shallow in depth. The contamination was typically limited to within the top one foot of the ground surface, supporting that migration of this contamination has been limited. The deepest DDT contamination encountered was at a depth of approximately 8 feet, in the area associated with petroleum contamination. The IRM program is detailed in the report entitled "IRM Soil Removal Program, Saratoga Tree Nursery" dated February 1996.

SECTION 4: REMEDIAL INVESTIGATION

In order to determine the nature and extent of contamination present at the Nursery, the DHWR initiated a Remedial Investigation (RI) at the site. This section details the methodology and findings of the various investigations undertaken as part of the RI.

Through a records search and interviews with past Nursery employees, it was determined that DDT had been handled historically at the loading dock, two storage buildings, the Lumber Shed, the Mechanic Shop, Smith Barn, and at the old building foundation (ref. Figure 2). Further, it has been reported that rinse water from the trucks hauling the DDT emulsion was disposed of along the western property boundary of the Nursery. Based on this information and data from earlier sampling rounds, seven Areas of Concern (AOCs) were designated and a sampling program was developed for each area. These AOCs are shown on Figure 3.



The RI fieldwork involved an extensive sampling program which included the following activities:

- Collection of surface and subsurface soil samples. Samples were analyzed to determine the extent of contamination associated with past DDT handling at the site.
- Installation of monitoring wells. Eight shallow monitoring wells and two deep monitoring wells were installed across the site to assess groundwater quality. Groundwater samples were analyzed for lead, arsenic, pesticides and volatile parameters.
- Excavation of test pits. Test pits were excavated in areas which were reportedly used for pesticide mixing and/or disposal. These locations included the former truck rinsing area (AOC 1), the former underground storage tank area (AOC 5), the former pesticide mixing area (AOC 6) and the wood pallet/shade frame disposal area (AOC 7).
- Collection of surface water and sediment samples. Surface water and sediment samples were collected for analysis from the two on-site ponds to assess the impact, if any, on the ponds.
- Collection of soil or sediment samples from on-site drainage ways or areas of historic flooding. Samples were collected from the swale located behind the old building foundation, the swale behind the pesticide storage buildings, and the creek/drainage ditch running along the western Nursery property line.
- Sampling of the pesticide storage buildings. Soil samples were collected from within and in the vicinity of two former pesticide storage buildings (AOC 4), situated north of the Mechanic Shop.

It should be noted that throughout this report the values reported for concentrations of DDT in soil and sediment, represent the summation of DDT, DDD and DDE identified by the analytical method employed.

4.1 Surface and Subsurface Soil

In each AOC, soil samples were collected and analyzed consistent with the approach employed during the Off-Site Sampling Program. At each soil sample location, samples were collected from the 0-6", 6"-12" and 12"-24" soil horizons using a hand auger. All soil samples collected during the RI were analyzed using immunoassay field test kits. These test kits allowed sampling to be extended, as necessary, within each of the designated areas to fully delineate the extent of contamination. Results were typically available within forty-eight hours of sampling. At least one in twenty samples, or a minimum of one sample in each area, were subjected to a full pesticide scan in the laboratory, for purposes of Quality Assurance and Quality Control (QA/QC).

Details regarding sample collection, analysis and QA/QC can be found in the "Remedial Investigation/Feasibility Study On-Site Work Plan, Saratoga Tree Nursery" dated June 1995.

The seven AOCs are described below along with a discussion of the sampling program and the analytical results.

AOC 1 - Former Truck Rinsing Area:

This area includes the fire road along the western Nursery property boundary. This is the area where DDT was first discovered during confirmatory sampling as part of the 1994 underground petroleum storage tank removal/replacement program. Samples taken from this area during the preliminary investigations revealed concentrations of DDT as high as 1200 ppm (ref. Appendix A). It is believed that rinse water from trucks containing the oil/water/DDT emulsion was disposed of in this area. A grid was established using 40'x50' spacings. The grid was modified where samples were previously collected. Samples were collected from a total of 29 locations. Also, an abandoned drywell was discovered during the IRM in the southern section of AOC 1. The drywell appears to be currently inactive and the past use and source of the discharge is uncertain. Additional sample locations were selected in and around the drywell for analysis. The AOC 1 sample locations are shown in Appendix B (Figure B-1).

The results from the RI sampling identified a range of DDT concentrations from ND to 4360 ppm in AOC 1. The results revealed DDT was present at concentrations greater than 10 ppm across most of AOC 1. DDT contamination greater than 100 ppm was observed at four sample points and concentrations greater than 1000 ppm were observed in samples collected in the vicinity of the drywell. Sampling revealed that the contamination is generally shallow in depth and limited to within the top two feet of the ground surface. The samples collected in and near the drywell, however, revealed contamination at deeper intervals.

The drywell is 4.5 feet deep with a gravel bottom. The base of the drywell was observed to be approximately 1 foot below the water table. Samples were collected at the base of the drywell, at 1 foot below the base and immediately adjacent to the drywell at a depth of 4 feet. Samples were also collected from two nearby locations (8 feet upgradient, 8 feet downgradient) at a depth of 4 feet. Analysis revealed high levels of DDT within and beneath the drywell. The sample collected at the base of the drywell contained >100 ppm DDT and the sample collected below the base contained 9.9 ppm DDT. The sample collected adjacent to the drywell contained the highest concentration detected in AOC 1, 4360 ppm DDT. The sample collected upgradient of the drywell contained 7 ppm DDT. The drywell is in the area of the highest levels of DDT found in the early sampling in this area.

The results of the sampling are presented in Appendix B. The pattern of contamination appears generally consistent with the truck rinsing/disposal practices which are reported to have occurred in this area. The drywell's association with the DDT mixing operations at the site is unclear. However, based on the high levels of DDT detected in the drywell, it apparently has some connection with the mixing/handling operations. The findings from the sampling of AOC 1 are similar to the findings of the off-site sampling program. Figure 4 uses iso-contours to illustrate the relative concentrations of DDT detected in soil. As evidenced by this Figure, the contamination in AOC 1 is widespread.

AOC 2 - Smith Barn Area:

This area includes the Smith Barn and the adjacent tank trailers which were used for mixing and transport of DDT. Four trailer-mounted tanks are presently stored on the east side of the Smith Barn. It has been reported that these trailers were previously situated in the pesticide mixing area (AOC 5) and were moved here after the DDT use at the site had ceased. DDT and other pesticides are reported to have been stored in the Smith Barn. Tests conducted in the Smith Barn by the Bureau of Pesticides in 1985 showed pesticide contamination of the soil and gravel floor. As a remedial measure, the floor was covered with a 6 mil polyethylene liner and a concrete slab. As part of the RI program, samples were collected around the base of the foundation of the barn and in the vicinity of the tank trailers. Since fill was used in constructing the Smith Barn, care was taken to ensure samples were collected at sufficient depth to be representative of native material. The AOC 2 sample locations are shown in Appendix B (Figure B-2).

Sample results for DDT ranged from ND to greater than 1000 ppm in AOC 2. Consistent with the preliminary sampling data, samples collected adjacent to the foundation of the Smith Barn and to the east of the tanker trailers did not show elevated levels of DDT. However, samples collected underneath the fill port of the tanker trailers revealed DDT concentrations in excess of 1000 ppm.

The results of the sampling are presented in Appendix B. The contamination identified in AOC 2 appears to be very limited in extent, confined to the area in the immediate vicinity of the tank trailers. Further, each of the tanks contains some residual of the oil/DDT mixture, which is likely the source of the contamination identified in this area. The contents of each of the tanks was sampled and analysis revealed concentrations of DDT as high as 15,000 ppm.

AOC 3 - Lumber Shed Area:

This area comprises the Lumber Shed and surrounding area. It was reported that the lumber shed may have been used in the past for pesticide storage. During the RI samples were collected from the northeast side of lumber shed and in the vicinity of a decomposed drum observed northwest of the barn. The AOC 3 sample locations from the RI and the previous study are shown in Appendix B (Figure B-3).

Neither of the samples collected from AOC 3 revealed elevated levels of DDT, consistent with the findings of samples collected during the preliminary investigations. Further, the interior of the barn was examined and no evidence of pesticide or other chemical handling (staining, odors, etc.) was observed, therefore no interior sampling was conducted. The results of the sampling are presented in Appendix B.

AOC 4 - Pesticide Storage Buildings:

This area includes two small wooden storage buildings (A and B) and the surrounding area. Pesticide containers with various quantities of material and other miscellaneous wood and equipment are currently stored in these two small buildings. Samples were collected near the doorway of each of the two storage buildings, from the floor of the buildings, and from a shallow drainage swale which runs behind the buildings. Though the buildings both rest on concrete slabs, significant quantities of soil/dirt are present inside each of the buildings. The sample locations are shown in Appendix B (Figure B-3).

The samples collected from the doorways of Buildings A and B had DDT levels greater than 100 ppm, and greater than 1000 ppm, respectively. Similarly, the samples collected from the floors of Buildings A and B also exhibited DDT levels greater than 100 ppm and greater than 1000 ppm, respectively. Five of these samples were also analyzed for lead and arsenic since lead arsenate pesticide had reportedly been stored in this AOC. Lead was detected in concentrations ranging from 7-11,000 ppm and arsenic was detected in concentrations ranging from 26-38,000 ppm. Samples were also collected from behind each of the buildings as well as from the adjacent drainage swale. The results revealed a DDT concentration of 952 ppm behind Building A at a depth of 0-6". The samples collected from the swale were also shown to be elevated, most notably samples collected from the sample no. 4-11 location. This location is at the swale's southernmost point, where it originates, just off the Nursery roadway which divides AOC 4 from AOC 5. A strong petroleum odor was apparent at all three soil horizons at this location and each of the three samples were shown to contain concentrations of DDT greater than 10,000 ppm.

The results of the sampling are presented in Appendix B. The contamination in this area is likely attributable to past handing, disposal and/or storage of DDT in this area. Significant contamination was encountered within and around the storage buildings. The drainage swale adjacent to the buildings was also shown to be contaminated, most notably at its southern-most extreme, where petroleum contamination was also evident. Figure 4 uses contours to illustrate the relative concentrations of DDT detected in this area.

AOC 5 - Former Mixing Area/UST Area:

This area is the approximate one acre grass field and loading dock on the north side of the paved Nursery access road. It is believed this area was used in the past as the main mixing area for the

DDT emulsion used in the aerial spraying program. This area is presently an unused field. Although the exact locations are unknown, six underground storage tanks (USTs) were formerly located in this area. It is reported these tanks were used for the storage of fuel oil, DDT emulsion and possibly, other compounds. The AOC 5 sample locations are shown in Appendix B (Figure B-4).

A grid was established using 100'x50' spacings and 33 points were sampled. These samples represent those from the original grid plus additional samples required to further delineate the extent of contamination. Sampling showed that a large portion of the area contains DDT at levels greater than 100 ppm (13 of 33 sample locations). Samples from four sample points contained DDT at levels greater than 1000 ppm. The vertical extent of contamination in AOC 5 is discussed in Section 4.2, which presents the test pit investigation.

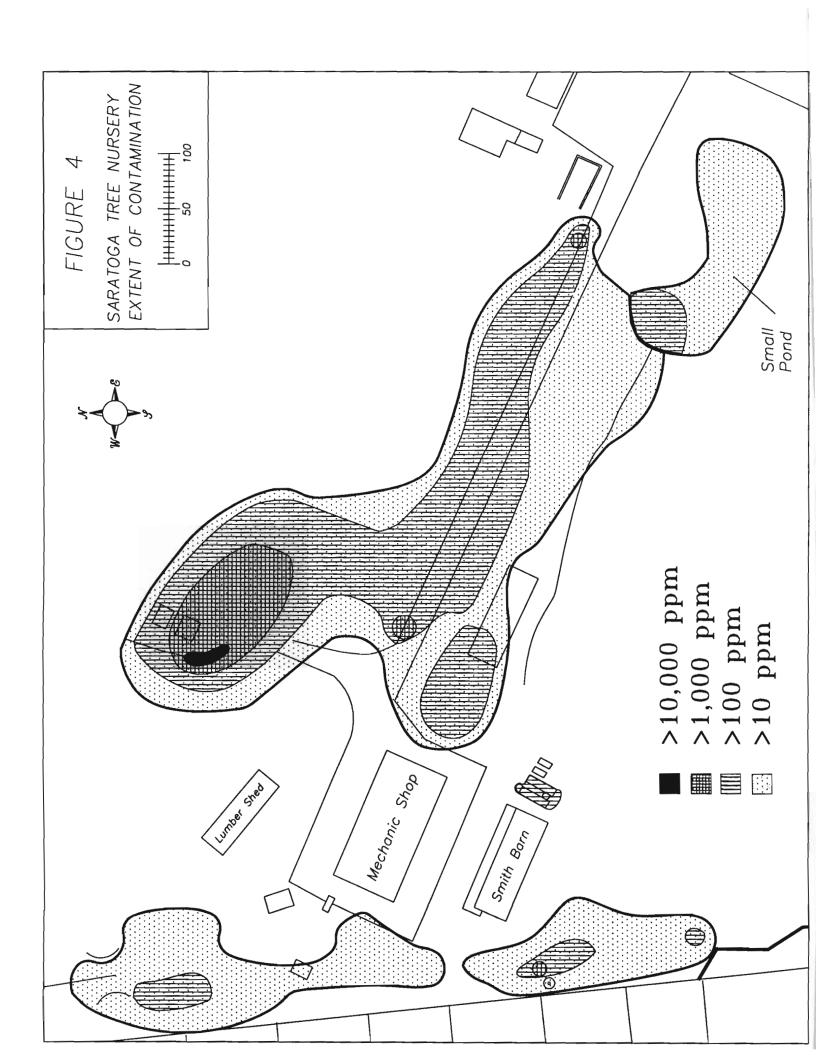
The results of the sampling are presented in Appendix B. It appears that the reported past mixing operations and leaking from the former tanks, have resulted in widespread DDT contamination in this area. The findings from the sampling program suggest the contamination in AOC 5 is contiguous with that in AOC 4 and AOC 6, as illustrated by Figure 4.

AOC 6 - Former Mixing Area:

This area includes the barn foundation, a swale behind the foundation and a one-half acre grass field to the south of the Nursery access road. It is reported that DDT was stored and/or mixed in the former barn of which only the foundation remains. A grid was established in the grassy area using 100'x50' spacings and 24 points were sampled. In addition to the sampling in the area of the foundation and the adjacent field, samples were collected from a swale which appears to have received drainage from the southwest corner of the foundation and directed flow toward the small pond at the south end of AOC 6. The pond water and sediments were also sampled as part of the RI. These results are discussed in Section 4.4. The AOC 6 sample locations are shown in Appendix B (Figure B-5).

Only one of the five samples collected from the swale behind the foundation was shown to contain levels of DDT above 10 ppm. Sampling identified that the majority of the grassy field, however, contained DDT at concentrations greater than 10 ppm, with several areas greater than 100 ppm. The vertical extent of contamination in AOC 6 is discussed in Section 4.2, which presents the test pit investigation.

The results of the sampling are presented in Appendix B. Like the findings in AOC 5, the contamination in AOC 6 is also widespread. This contamination is attributable to the past storage and mixing operations and as stated previously, appears to be contiguous with that in AOC 5, extending under the roadway which divides AOC 5 and AOC 6.



AOC 7 - Wood Pallet/Shade Frame Disposal Area:

This area has for a number of years, and continues to be, used for the disposal of pallets, shade frames and other wood materials. An unsubstantiated report was made that bags of DDT powder had also been disposed of in this area in the early 1970's. To investigate that report, 7 test pits were excavated and 12 hand auger exploratory borings were installed at random locations throughout the area. In addition, five samples were collected for analysis from a drainage swale along the base of the ridge that comprises the disposal area. These samples were collected from the 0-12" horizon. It is believed that if DDT disposal had occurred in this area, it would be evidenced by low levels of DDT in the drainage swale, since runoff would carry product to the base of the hill. The AOC 7 sample locations are shown in Appendix B (Figure B-6).

Neither the visual observation of test pits and exploratory borings nor the analytical data from the five samples collected from the swale supports that DDT had been disposed in this area. The location of the test pits and sample points are presented in Appendix B.

4.2 Test Pit Investigation

As a component of the RI, test pits were excavated to examine the subsurface soils at a number of locations across the site. The locations selected were those where significant handling and/or disposal of DDT were reported to have occurred. Test pits were dug using a backhoe and in general were 3-4 feet wide, 10 feet long and extended to the water table which was approximately 8 feet deep. Samples were collected from select test pits to aid in the vertical delineation of contamination. Test pits were visually inspected to examine the quality of subsurface soils and monitored using a photoionization detector. If contamination was suspected based on staining, odors or data from surface soil sampling, samples were collected for analysis. The findings of the test pit investigation are discussed below.

AOC 1 - Former Truck Rinsing Area:

Three test pits were excavated in AOC 1. As discussed in Section 3.2, during the off-site investigation, oil contamination was observed on one of the residential properties. This discovery was in the general vicinity of the former underground petroleum storage tanks on the Nursery. While this area of contamination was addressed as a component of the IRM and appeared to be a discrete area, two trenches approximately 35 feet long were excavated between the location of the former underground storage tank and the identified oil contamination off-site to determine whether a connection existed. No evidence of oil (staining or odors) was apparent in either test trench. A third test pit was excavated in the vicinity of the drywell discovered in AOC 1. No odors or staining were apparent in this test pit (TP 1-3) either, however, samples were collected for analysis at depths of 3', 4', 5' and 6', due to the previous sample data from this area. The preliminary investigation had revealed a concentration of 1249 ppm DDT in this vicinity. A

maximum concentration of 6 ppm of DDT was detected at a depth of 3 feet. The results of the test pit/trench sample analyses are listed on Table 1. The location of the trenches is illustrated on Figure B-8.

AOC 5 and AOC 6 - Former Mixing Areas:

Samples were analyzed from test pits in AOC 5 and 6, due to the reported history of these areas, the observed presence of an oil/light non-aqueous phase liquid (LNAPL) in several instances and in many instances, oil stains and/or odors. An LNAPL is liquid compound/contaminant whose specific gravity is less than water (fuel oil, gasoline, etc.) and therefore floats on the surface of the water. Evidence of petroleum contamination was apparent in 11 of the 23 test pits excavated in AOC 5 and in 6 of the 16 test pits excavated in AOC 6. Test pit sample locations are shown on Figure B-9. The strongest evidence of petroleum was encountered in AOC 5, the area where USTs which were used as part of the DDT mixing operation were previously located. In test pits TP 5-4, 5-5 and 5-16, black-stained soil with a strong petroleum odor was observed. Also, a sheen was observed on top of the groundwater encountered in each of these test pits. Table 1 presents the results of the test pit soil sample analyses and also includes the field observations recorded during sample collection. Evaluation of Table 1 supports that in essentially every instance where oil staining or odor was observed, DDT was detected at elevated levels. This data suggests that a connection exists between oil contamination and DDT contamination at depths greater than two feet. The areas of apparent petroleum contamination are illustrated in Appendix B (Figure B-10). The presence of oil saturated soil, as it relates to groundwater, is discussed in Section 4.3.

AOC 7 - Wood Pallet/Shade Frame Disposal Area:

Observations of the test pits excavated in AOC 7 yielded wood products, decomposing vegetation (leaves, roots, etc.) and sand. Samples were not collected for analysis from the test pits installed in AOC 7 as no evidence of DDT powder allegedly disposed in this area was observed.

4.3 Groundwater Investigation

The results of a November 1994 sampling round, as discussed in Section 3.1, identified the presence of low levels of DDT in the one of the on-site water supply wells. This well, the Mechanic Shop well, which is one of seven on-site water supply wells, contained DDT above the groundwater standard of non-detect. This well, which was not used as a drinking water source, is located in AOC 1 near the fence line. A carbon filter was installed on this water supply on September 14, 1995, since this well is used for washing, etc. by Nursery personnel. As discussed in Section 3.2, three temporary well points were installed in the vicinity of an area of petroleum contamination near the western property line. Each of the well points was shown to contain

TABLE 1						
Saratoga Tree Nursery - Summary Table of Test Pit Sampling						
Sample ID	Area of Concern	Sample Depth	DDT Conc. (ppm)	Field Notes		
TP 1-3	AOC 1	3'	6.04	No odor/staining		
TP 1-3	AOC 1	4'	0.1	No odor/staining		
TP 1-3	AOC 1	5'	0.0	No odor/staining		
TP 1-3	AOC 1	6'	0.07	No odor/staining		
TP 5-4	AOC 5	4'	52.9	Obvious pet. contamin.		
TP 5-5	AOC 5	4'	11.8	Obvious pet. staining		
TP 5-6	AOC 5	5'-8'	100.8	Petroleum odor		
TP 5-7	AOC 5	5'	129	Petroleum odor		
TP 5-9	AOC 5	5'	411.2	Fuel oil odor		
TP 5-10	AOC 5	2'-5'	2.2	No odor		
TP 5-11	AOC 5	2'-5'	1.1	No odor		
TP 5-13	AOC 5	6'	2.2	No odor/staining		
TP 5-14	AOC 5	4'	1.0	No odor/staining		
TP 5-15	AOC 5	2'	0.8	No comment		
TP 5-16	AOC 5	6'	353.5	Oil stain/pet. odor		
TP 5-18	AOC 5	5'	5.6	Faint pet. odor		
TP 5-22	AOC 5	5'	3.7	Poss. faint pet. odor		
TP 6-4	AOC 6	7'	55.6	Petroleum odor		
TP 6-7	AOC 6	5'	0.3	Poss. faint pet. odor		
TP 6-8	AOC 6	7'	0.11	No staining/odor		
TP 6-9	AOC 6	7'	0.93	No staining/odor		
TP 6-10	AOC 6	7'	0.01	No staining/odor		
TP 6-11	AOC 6	7'	0.01	No comment		
TP 6-12	AOC 6	7'	0.25	No comment		
TP 6-13	AOC 6	7'	16.13	No comment		
TP 6-14	AOC 6	7'	19.20	Oil staining		
TP 6-15	AOC 6	7'	0.55	No comment		
TP 6-16	AOC 6	7'	0.51	No comment		

detectable levels of DDT and its breakdown products (0.28 ppb, 0.28 ppb, and 13.19 ppb, respectively). To aid in monitoring well placement, two additional temporary well points were installed on-site. The well points were situated in AOC 2 and AOC 5, respectively. Analytical results of groundwater samples from TWP-4 and TWP-5 also revealed the presence of detectable concentrations of DDT and its breakdown products (19.77 ppb and 5.72 ppb, respectively). A petroleum odor was also observed during the well point installation at both locations.

To define the extent of contamination in groundwater and to characterize the site hydrogeology, a groundwater monitoring program was developed as a component of the Remedial Investigation. The NYSDEC procured Atlantic Testing Labs, Inc., as a drilling contractor to install the monitoring wells. The drilling program began on July 25, 1995 and was completed on July 28, 1995.

4.3.1 Methodology

Ten monitoring wells were constructed on-site (eight shallow, two deep) at the locations shown on Figure B-11. Monitoring wells were drilled and installed using standard hollow stem auger methods. Split spoon samples were collected continuously in two foot intervals in accordance with standard ASTM specifications. Soil samples were visually classified and stored in sealed jars for future reference. All shallow wells were screened across the water table in order to obtain information about the upper portion of the aquifer. Depths of the shallow wells ranged from 15' to 19' below ground surface (bgs). Well screens for the deep wells are below the water table. The two deep wells, MW-4D and MW-5D, each had depths of 26' bgs. These wells were paired with the shallow wells, MW-4S and MW-5S, respectively. Monitoring well construction logs were prepared for each of the wells and are included in Appendix C.

Monitoring wells were constructed with two inch ID threaded schedule 40 PVC flush-joint casing and a ten-foot section of machine slotted 0.010-inch well screen. The annulus around the well screen was backfilled with No. 1 Morie sand. The sand pack extends to a maximum of two feet above the well screen. A bentonite seal was placed above the sand pack to form a maximum three foot seal. A cement/bentonite grout was then placed to within three feet of the surface. Each well has a vented cap and a four inch diameter steel protective casing with a hinged locking cover. A cement pad was installed to channel surface water away from the well. Prior to sample collection all wells were developed via pumping or bailing, to remove sediment from the well screen and sand pack.

4.3.2 Geology and Hydrogeology

The drilling program revealed approximately 25 to 30 feet of lacustrine sand above the bedrock at the site. These sands are the result of beach and near shore deposits of glacial Lake Albany that existed in the area approximately 12,000 to 14,000 years ago during the Wisconsin glaciation. This lacustrine unit is comprised of stratified brown to grey-brown fine to medium and some coarse sand. Sand above the water table is red-brown to orange in color with mottling at and above the water table indicating a fluctuation in groundwater elevation.

Bedrock at the site was encountered at about 26 feet below ground surface at the MW-4D and MW-5D locations. Bedrock consists of Canajoharie shale. Exploratory borings ceased at the top of bedrock, therefore no actual samples were collected. It is important to note from a hydrogeologic standpoint, that there is not any confining or semi-confining unit that separates the groundwater in the bedrock from that in the sand above.

Surface water features at the site include a small creek/drainage ditch that emerges as a spring to the west and flows east and then south along the western property line year round. There are also two ponds on the property, one of which is used for irrigation. The low lying area on the south west portion of the site is wet at the surface most of the year. All surface drainage from the site is to the south east into Kayaderosseras Creek which empties into Saratoga Lake. As the site is comprised predominantly of sand, most precipitation infiltrates into the ground rather than running off into the drainage system described above.

Groundwater at the site is encountered generally at a depth of five to seven feet below ground surface within the lacustrine sand. This is known as the water table aquifer which is unconfined and the surface of which generally reflects the topographic features of the ground surface. Precise measurements to the top of the water table have been made in the monitoring wells and placed on a map to illustrate flow direction. Groundwater flows from the areas of higher level to lower level as shown on Figure B-11. Flow directions at the site are to the east-southeast, similar to surface drainage patterns in the area. The lacustrine sand provides a relatively permeable aquifer with high porosity. Although the hydraulic conductivity (permeability) has not been calculated during this study, pumping of the monitoring wells during development and sampling indicate the aquifer is moderately productive at all locations except MW-2 and MW-8, both of which are on the south west side of the site. These two wells produced little water, most likely due to the sand in that area being finer and more compact. The reported range of porosity for sand is between 25% to 50% (Fetter). Based on field observations (no laboratory testing was performed), it estimated that the lower end of this range applies to the lacustrine sands found at the site.

4.3.3 Sampling

The groundwater sampling program commenced on September 20, 1995. Samples were collected using dedicated one liter bottom-loading bailers. Samples were analyzed for lead, arsenic, pesticides and volatile parameters. No significant levels of volatile parameters were detected and no metal parameters were detected in any of the wells. The groundwater sampling program did, however, reveal detectable concentrations of DDT and/or its breakdown products DDD and DDE, in well nos. MW-1, MW-4S, MW-4D, MW-6 and MW-7. Table 2 presents the groundwater sampling results.

Based on the initial sampling results, samples were collected from MW-1, MW-4S, MW-4D, MW-6 and MW-7 on November 8, 1995 for semi-volatile analysis. This follow-up semi-volatile sampling was conducted to determine if compounds were present consistent with petroleum products, and to establish whether a connection existed between DDT in groundwater and the DDT/petroleum contamination noted at other locations at the site. The analysis did not reveal

	TABLE 2	2					
	Saratoga Tree Nursery - Groundwater Sampling Results						
Well ID	Contaminants	Conc. (µg/L)	GW Std. (μg/L)				
MW-1	4,4'-DDE	0.004	ND				
	4,4'-DDD + 2,4'-DDD	0.01	ND				
	4,4'-DDT	0.02	ND				
MW-4S	4,4'-DDD + 2,4'-DDD	1.5	ND				
	4,4'-DDT	0.44	ND				
	Phenanthrene	48	50				
MW-4D	4,4'-DDT	0.01	ND				
	Phenanthrene	5.7	50				
MW-6	4,4'-DDD + 2,4'-DDD	0.92	ND				
	4,4'-DDT	0.06	ND				
	Chloroform	28	7				
MW-7	4,4'-DDE	0.06	ND				
	4,4'-DDD + 2,4'-DDD	0.002	ND				
	4,4'-DDT	0.02	ND				
	Chloroform	4 Ј	7				

J - Value reported is an estimate. $\mu g/L$ - Micrograms per liter (parts per billion). ND - Non Detect. KEY:

significant concentrations of target semi-volatile compounds, however, a number of non-target semi-volatile compounds were detected in well nos. MW-4S, MW-4D and MW-6, including various aromatic hydrocarbons (naphthalene derivatives, fluorene derivatives, hexadecane, etc.). Non-target compounds are those detected, though the laboratory equipment has not been specifically calibrated to identify them. For this reason, concentrations of non-target compounds can only be estimated. The presence of these non-target compounds supports the likelihood of a connection between DDT and petroleum. Note that only target compounds are reported on Table 2. Laboratory data sheets for groundwater are included in Appendix E.

4.4 Surface Water and Sediment

4.4.1 Small Pond

Two ponds are located on the Nursery property. The smaller of the two ponds is located at the eastern end of AOC 6. This pond is approximately one third of an acre in size. The pond has no inlet or outlet and groundwater is the apparent water source to the pond. Significant filling (soil and rubble) is evident on the ponds northern perimeter. Water and sediment samples were collected for analysis from each of the two on-site ponds. These samples were collected from a boat, using a sediment core sampler. Samples were collected from the top two soil/sediment horizons at each sample location.

Six sediment samples from three locations were collected from the small pond and one surface water sample was collected. Results from sediment samples collected from the small pond revealed concentrations of DDT ranging from 34 ppm to 223 ppm in the upper sediment horizon (0-8"). The lower sediment horizon (8"-16") showed significantly lower concentrations of contamination with concentrations ranging from 0.10 ppm to 3.4 ppm. The results of the surface water sampling showed an estimated concentration of 0.002 ppb DDE and an estimated concentration of 0.015 ppb DDD. Sample locations are illustrated on Figure B-7.

4.4.2 Large Pond

The second of the two on-site ponds is located in the southern portion of the Nursery, a considerable distance (550') from the former mixing and storage areas. This pond is approximately one-half acre in size. No inlet was apparent based on visual observation, suggesting that groundwater is also the source to the large pond. The pond discharges to a narrow drainage ditch situated at the pond's eastern extreme. This pond is used for irrigation on an asneeded basis.

Eight sediment samples from three locations were collected from this pond. Elevated levels of DDT were not detected in any of the sediment samples collected. Concentrations of DDT for each of the sediment samples were below 1 ppm, with the exception of sample 2B which had a concentration of 1.10 ppm. The results from analysis of the surface water sample revealed no detectable concentrations of DDT, DDE or DDD. Sample locations are illustrated on Figure B-7.

4.4.3 Creek/Drainage Ditch

Sediment samples were also collected from the creek/drainage ditch that flows along the western property boundary. This ditch, which has a sustained flow of approximately five gpm, is approximately two feet wide and three to six inches deep. The source of this ditch is an east-west trending buried pipe located within an easement between Lot Numbers 98 and 100 Hathorn Blvd. This pipe reportedly receives flow from spring which was encountered during the construction of homes on the west side of Hathorn Blvd. The ditch flows along the Nursery's western property boundary and eventually to an off-site pond situated south of the Nursery property boundary.

A total of three sediment samples were collected from the ditch at approximately 25 foot spacings during the RI. During the preliminary investigations, one sediment sample was also collected from the ditch bottom. Each of the sample locations is illustrated on Figure B-7.

Analysis revealed DDT levels of 1.6, 2.5 and 0.2 ppm respectively, progressing from upstream to downstream. The sample collected during the preliminary investigation contained 0.3 ppm DDT. The results of the ditch sampling support that there has been no significant impact on the ditch.

SECTION 5: EXPOSURE PATHWAY ANALYSIS

5.1 Contaminants of Concern

The RI established that although lead and arsenic were identified at elevated concentrations in AOC 4 and a number of non-target semi-volatile compounds were detected in groundwater, DDT and its breakdown products DDD and DDE, best represent the overall contamination present in site soil, sediment and groundwater. It should be noted, as stated previously, throughout this report the values reported for concentrations of DDT in soil and sediment, represent the summation of DDT, DDD and DDE identified by the analytical method employed.

The development of site-specific remedial objectives or "cleanup goals" for impacted media (soil, sediment, groundwater) involves review of relevant State standards, criteria and guidance (SCGs) to insure the protection of public health and the environment. This process, which will be a component of the Feasibility Study (FS), involves consultation with the NYSDOH to insure the remedial objectives are protective of the public health. The NYSDOH considers such factors as the chemical and toxicological properties of the contaminants of concern; existing or potential exposure pathways, and; the present or projected site use. The NYSDEC's Division of Fish and Wildlife is also consulted to insure the remedial objectives are protective of existing wildlife habitats and other natural resources.

To aid in this evaluation, the following section will examine existing and potential exposures to human health as well as fish and wildlife.

5.2 Human Health Evaluation

The chemical and toxicological properties of DDT are fundamental considerations in the development of cleanup objectives. DDT is a stable chemical and is therefore persistent in the natural environment. Although DDT is a highly effective insecticide, concerns related to its accumulation in the environment, resulted in its ban in the United States in the early 1970's. DDT is still widely used outside the United States. Like any chemical, DDT has the potential to affect an individual's health, but this depends on many factors, such as the pathway of exposure (ingestion, inhalation, etc.), dosage, duration of exposure, individual's age and health, etc. People who accidentally ingested large amounts of DDT had affects on the nervous system that went away once the exposure was ended. Exposure to high levels of DDT causes damage to liver and reproductive systems of laboratory animals and the off-spring of laboratory animals exposed during pregnancy. Whether humans could suffer these same effects is unknown. Chemicals which cause adverse effects in laboratory animals at high levels of exposure may increase the risk of adverse effects in humans exposed to lower levels for long periods of time.

In national soil surveys, the range of background levels of DDT and its breakdown products is 0.01 to 18 ppm, with the higher end of that range usually related to past use of the insecticide. Local background levels were shown to have a range of 0.026-0.27 ppm. Levels which would be deemed acceptable for unrestricted use depend on a variety of factors such as the site use, depth of contamination, potential for exposure, etc.

Based on an evaluation of the data collected during the RI, the NYSDOH indicated that there is not an immediate health threat posed by the levels of contamination present at the Nursery, because the area is restricted and activities in contaminated areas are limited. The NYSDOH recommended that on-site workers avoid direct contact with contaminated soil and avoid situations which might increase the potential for inhalation of dust from these areas. The NYSDOH indicated that the levels of DDT and its breakdown products in soil are above those recommended for unrestricted use. Further, because DDT has migrated to groundwater in some areas of the site, threatening a source of water used locally for drinking, a third potential exposure pathway (i.e. ingestion of drinking water) exists. The NYSDOH indicated that until the identified areas of contamination have been remediated, on-site workers and site visitors should avoid unnecessary activities in these areas.

5.3 Fish and Wildlife Impact Analysis

The Nursery site is situated in a commercial/residential setting, occupying 130 acres. Contamination is confined to approximately three acres in the west-central section of the property. Most of the property is wooded and unused for Nursery activities. The property is surrounded by a six foot high chain link fence.

The undeveloped areas of the Nursery provide habitat for wildlife species typically found in woodlands and woodland edges. During the investigation, wildlife observed on the site included white-tailed deer, cottontail rabbit, gray squirrel, and turkey.

Two ponds exist on the property. The smaller pond (G, Figure 2) is approximately 12 inches in depth. It has no inlet or outlet, and during the investigation in late summer it dried up. The larger pond (H, Figure 2) is periodically used for irrigation at the Nursery. It is reported to contain pickerel, rock bass, largemouth bass, bullhead, and sunfish.

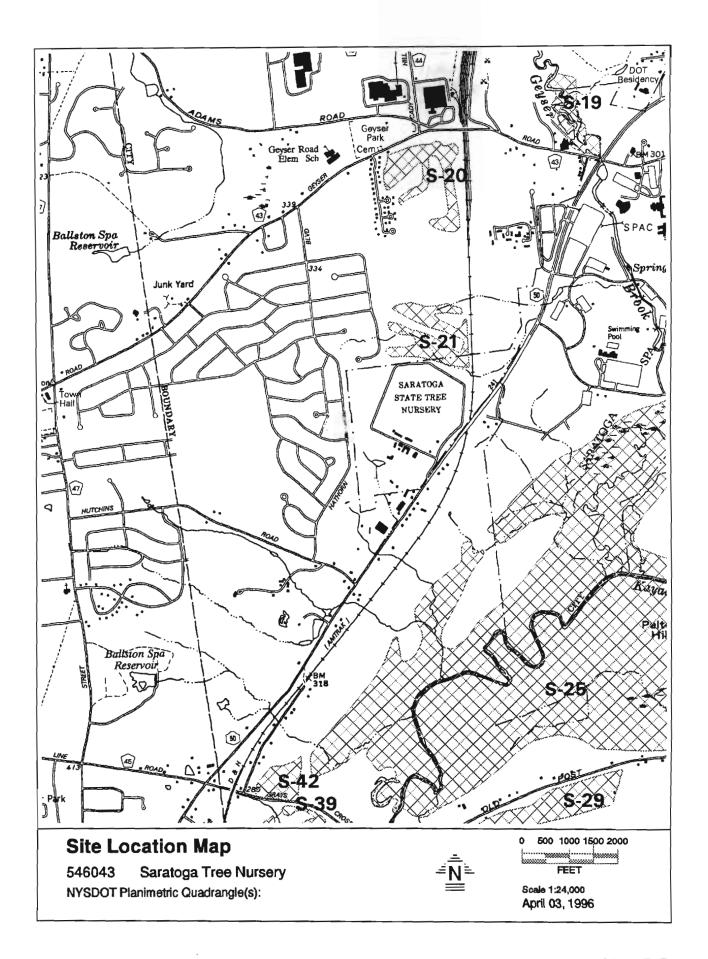
Several New York State regulated wetlands exist in the vicinity (ref. Figure 5). Closest to the site is wetland S-21 which lies just north of the property. A small section of the wetland occupies the northeast corner of the Nursery. The wetland is located approximately 1500 feet from the area of contamination, and, based on the investigation, no migration of DDT to the wetland is likely to have occurred.

DDT is a persistent pesticide that is known to accumulate and magnify in food chains. (The term DDT is used to include its degradation products DDD and DDE.) The compound has a well-documented history of producing adverse effects in wildlife. Most notably, DDT was associated with the population decline of species such as the peregrine falcon, the osprey, and the brown pelican. This was brought about by DDT's ability to inhibit successful reproduction in birds by causing egg shell thinning. Such eggs are suspectable to breakage during incubation. DDT can also be acutely toxic to wildlife. Mortality to robins in suburban areas caused by the spraying of DDT to control Dutch elm disease first brought the insecticide to the public's attention.

In terrestrial systems, DDT in soil is taken up by earthworms and other soil invertebrates including insect larvae. Contamination is passed up the food chain and can pose a risk to mammal predators such as shrews and moles, and to upper trophic level organisms preying on these mammals. Also, birds feeding directly on earthworms and other soil invertebrates or on insects whose larvae resided in contaminated soil can be at risk. An additional pathway for both birds and mammals is the direct ingestion of soil. At the Nursery, DDT at the concentrations found in the soil poses a potential hazard to wildlife.

Three sediment samples taken from the smaller pond had DDT concentrations of 34.4, 71.7, and 223 ppm. The screening level criterion for DDT at an assumed total organic carbon content of 5% is 0.05 ppm although the criterion is based on DDT bioaccumulation in wildlife through the consumption of contaminated fish and the small pond contains no fish. However, wildlife may be exposed through the consumption of contaminated pond invertebrates and the ingestion of surface water and sediments. The water sample taken from the pond contained DDT at an estimated concentration of 0.017 ppb while the New York State aquatic standard for Class D waters is 0.001 ppb. In addition, the pond may be used by breeding amphibians, and contamination may pose a hazard to egg and larval development.

The larger pond on the site contained DDT in the sediments at a level of 0.1 ppm. Although this exceeds the sediment criterion, the small size of the pond and the low level of contamination make it unlikely that wildlife would forage in the pond with the intensity necessary to receive a hazardous dose of DDT. Also, the low level of contamination is not likely to have a significant effect on the aquatic community.



Sediments from the creek/drainage ditch along the western property boundary contained DDT at concentrations ranging from 0.2 to 1.6 ppm along a length of 75 feet. It contains no fish, and, given the low level of contamination and the limited areal extent of contamination, it is unlikely to be of significant concern to wildlife.

In summary, the Nursery soils are contaminated with significant levels of DDT. Wildlife exposure to potentially harmful concentrations of DDT may occur through the consumption of soil invertebrates and through the direct ingestion of soil. Contamination may be passed up the food chain to upper trophic level carnivores. The larger pond and the drainage ditch along the western boundary contain low level contamination in the sediments which is unlikely to pose a wildlife hazard. The smaller pond contains levels of DDT in both the sediments and surface water that may present a risk to wildlife.

SECTION 6: FINDINGS OF THE REMEDIAL INVESTIGATION

6.1 Nature and Extent of Contamination

The purpose of the RI was to characterize the nature and extent of contamination at the Saratoga Tree Nursery Site. The investigation involved an extensive soil sampling program, groundwater monitoring, test pit excavations, surface water sampling and sediment sampling. The findings of the RI revealed widespread contamination by DDT in soil in the area reportedly used for disposal of DDT rinsate following daily operations (AOC 1), the pesticide storage buildings (AOC 4) and the former mixing areas (AOC 5 and AOC 6). The RI revealed that the uppermost 8" of sediments in the small pond near AOC 6 were contaminated with DDT. The RI also showed that there are a number of areas at the site which will require no further action. These include the area in the vicinity of the Smith Barn (AOC 2), the Lumber Shed (AOC 3) and the shade frame/wood pallet disposal area (AOC 7). An isolated area of contamination was observed beneath the tank trailers adjacent to the Smith Barn, however, which will require remedial action. Also, the contents of these tank trailers will have to be removed and the trailers decontaminated, as part of any remedial program. Accordingly, the tanks and related areas will now represent the extent of contamination within AOC 2, eliminating the Smith Barn from further consideration. Table 3 shows the contaminant concentration range by media and the associated frequency of detection.

The RI revealed that, in general, the depth of the DDT contamination in soil is shallow, typically within two feet of the ground surface. These findings are consistent with the reported mixing, handling and rinsing activities associated with the site. Drilling and test pitting revealed that there are areas of the site, however, where DDT extends to depths of eight feet or more. While these areas of the site make up a relatively small portion of the total area requiring action, they will require special consideration in light of the shallow water table and high DDT concentrations associated with these areas. Figure 4 illustrates the approximate areal extent of contamination, however, the actual limits will defined upon establishment of remedial objectives.

		TAB	LE 3			
Saratoga Tree Nursery - Nature and Extent of Contamination						
Media	Class	Contaminant of Concern	Concentration Range	Frequency Exceeding SCGs	SCG	
Soil	Pesticides	DDT, DDD, DDE	ND->10,000 ppm	155 of 418	DDT: 2.1 ppm DDD: 2.9 ppm DDE: 2.1 ppm	
	Metals	Lead	ND-11,000 ppm	10 of 47	7.5 or SB	
		Arsenic	ND-3,800 ppm	11 of 47	SB	
Sediment	Pesticides	DDT, DDD, DDE	ND-223 ppm	15 of 18	0.05 ppm	
Groundwater	Pesticides	DDT	ND-0.44 ppb	5 of 10	ND	
		DDD	ND-1.5 ppb	4 of 10	ND	
		DDE	ND-0.06 ppb	2 of 10	ND	
	Metals	Lead	ND	0 of 10	25 ppb	
		Arsenic	ND	0 of 10	25 ppb	
	Volatiles	Chloroform	ND-28 ppb	1 of 10	7 ppb	
	Semi-volatiles	Phenanthrene	ND-48 ppb	0 of 5	50 ppb	
		Various (non-target)	ND-630 ppb	2 of 5	50 ppb	
Surface Water	Pesticides	DDT	ND	0 of 2	0.001 ppb (D)	
		DDD	ND-0.015J ppb	1 of 2	0.001 ppb (D)	
		DDE	ND-0.002J ppb	1 of 2	0.001 ppb (D)	

KEY: SB - Site Background (Typ. Range for Albany Area - Arsenic: 0.1-6.5 ppm, Lead: 1-12.5 ppm).

ND - Non Detect.

J - Value reported is an estimate.

D - SCG corresponds to Class D surface waters. SCG - State standards, criteria and guidelines.

Figure 6 graphically depicts the volume of contaminated soil and sediment relative to the concentration of DDT detected. As illustrated by the graph, approximately 10,000 cubic yards of soil and sediment exceeded a concentration of 100 ppm and approximately 13,000 cubic yards of material exceeded a concentration of 10 ppm. To assess the general soil quality outside the 10 ppm contour (ref. Figure 4), the average concentration of DDT in soil was calculated for each sample interval. Average concentrations were found to be 1.84 ppm, 1.71 ppm and 0.91 ppm for the depths of 0-6", 6-12" and 12-24", respectively.

The RI revealed that groundwater contamination by DDT and its breakdown products exists at the site, but that the groundwater contamination is not widespread. Groundwater contamination was observed in monitoring wells MW-1, MW-4S, MW-4D, MW-6 and MW-7. Data supports that the deeper contamination observed, in both groundwater and soil, is attributable to the presence of petroleum contamination in these areas. Evidence of petroleum, either visual or analytical, was encountered in nearly every instance where DDT was detected at deeper intervals.

It appears that the presence of DDT at deeper intervals is the result of transport in emulsion with petroleum, which functions as a carrier. DDT is a relatively insoluble compound in water with a strong tendency to adhere to soil particles, however, it dissolves fairly readily into oil, which is why fuel oil was used as a mixing/emulsifying agent. It is for this reason that those areas where DDT was observed at deeper intervals (in soil and groundwater) are believed to be the result of petroleum contamination, which also exists, and which has combined with the DDT. Figure B-10 illustrates the estimated limits of those areas where petroleum contamination was apparent.

6.2 Recommendations and Conclusions

6.2.1 Recommendations

It is recommended that a Feasibility Study be performed to assess the most suitable means of addressing the media where contamination has been identified at the Nursery site. As a component of the Feasibility Study, a detailed evaluation of relevant State standards, criteria and guidance should be conducted in the development of appropriate remedial objectives. Based on the data collected as part of the Remedial Investigation, Table 4 presents the estimated volume of contaminated media which has been identified in each AOC.

6.2.2 <u>Conclusions</u>

As illustrated by Table 4, the RI identified widespread soil contamination at this site. The predominant contaminant of concern is DDT and its associated breakdown products, DDD and DDE. In addition to DDT, the heavy metals lead and arsenic, the toxic components of the pesticide lead-arsenate, were only identified in one AOC, the former pesticide storage buildings (AOC 4). The areas of DDT soil contamination at this site include AOC 1, AOC 2, AOC 4, AOC 5 and AOC 6. These areas should be included in a remedial program designed to address all soil with levels of DDT and its breakdown products above the remedial objective which is

established. The tank trailers in AOC 2 and their contents must also be incorporated in the remedial program, removing the residual DDT product and properly decontaminating the tanks for salvaging. Also, the elevated concentrations of lead and arsenic detected in and near the pesticide storage buildings warrant action. Depending on the remedial technique selected, a separate remedial alternative may be required to address the metals contamination observed in this area.

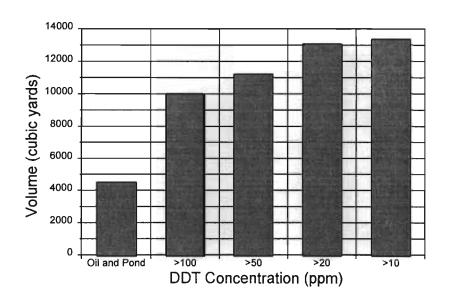
Sediment contamination has been identified in the small pond at the south end of AOC 6. This contamination appears limited to the top 8" of sediment. All sediment in this pond shown to exceed the remedial objective, should be subject to remedial action and treated and/or disposed consistent with the contaminated soil.

Groundwater contamination has been observed in wells nos. MW-1, MW-4S, MW-4D, MW-6 and MW-7. This contamination appears to have resulted from the migration of DDT by emulsion with residual petroleum products. It is believed that the removal of oil-saturated soils will eliminate the source(s) of the groundwater contamination. This remedial measure as well as any others measures necessary to address the groundwater should be evaluated in the Feasibility Study.

FIGURE 6

SARATOGA TREE NURSERY

DDT Concentration vs. Volume

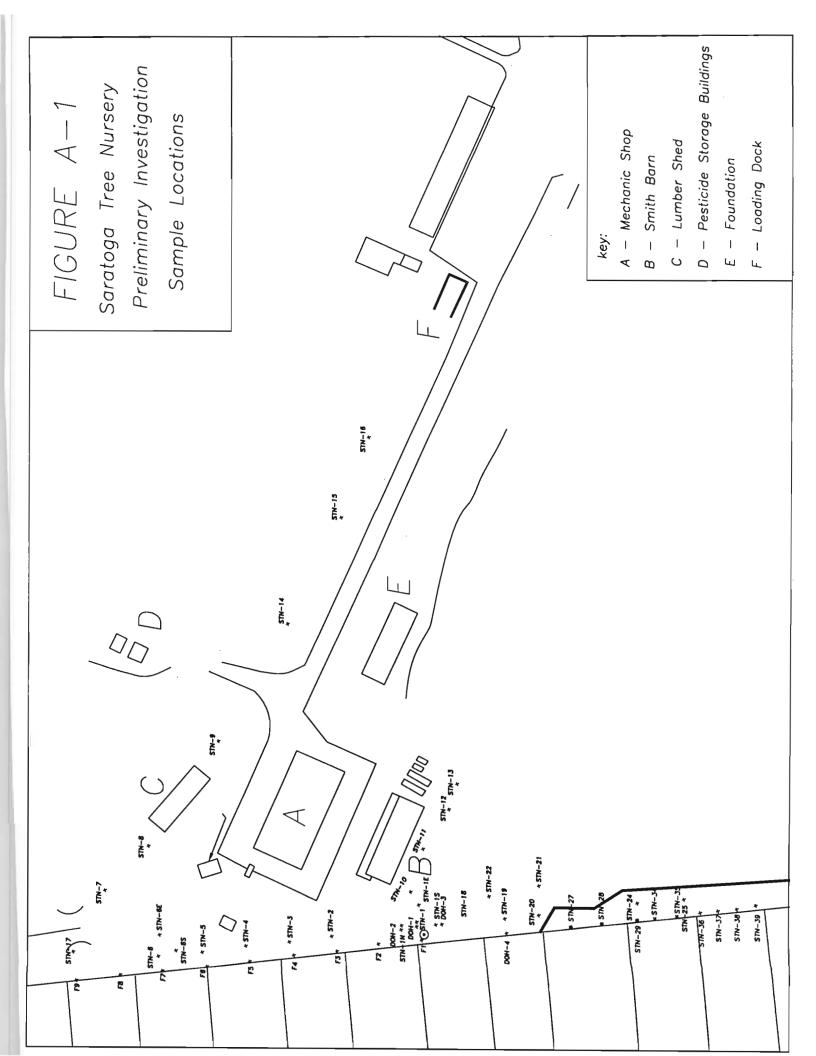


	TA	ABLE 4	
Saratoga Tree	Nursery - Summa	ry of Remedial Investiga	tion Findings
Area of Concern	Media	Primary Contaminant Detected	Estimated Volume of Contaminated Media (cubic yards)*
AOC 1	Soil	DDT, DDD, DDE	2290
AOC 2	Soil	DDT, DDD, DDE	300
AOC 4	Soil	DDT, DDD, DDE	1850
		Pb, As	150
AOC 5	Soil	DDT, DDD, DDE	4400
AOC 6	Soil	DDT, DDD, DDE	3280
	Sediment	DDT, DDD, DDE	1000
		TOTAL	13270

^{* -} Estimates based on soil with DDT concentrations of 10 ppm or greater. Depth of contamination assumed at 2' w/exception of zones of petroleum contamination where 8' was assumed.

APPENDIX A

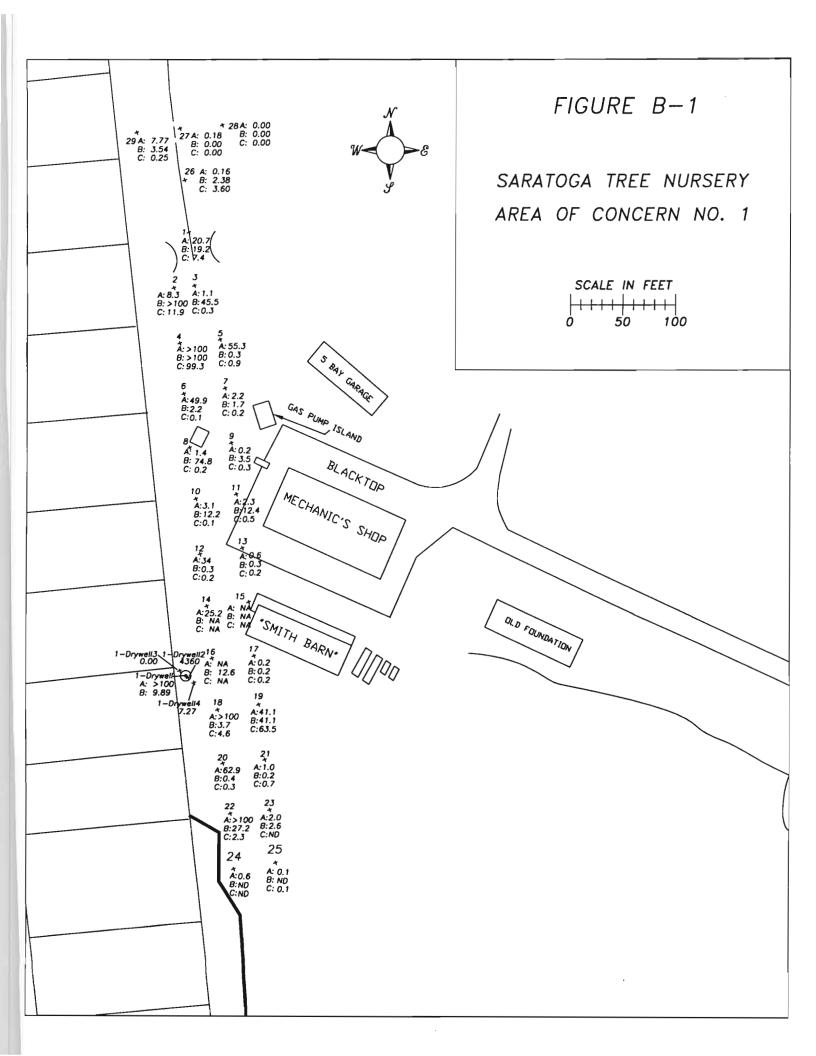
Preliminary Investigation Data

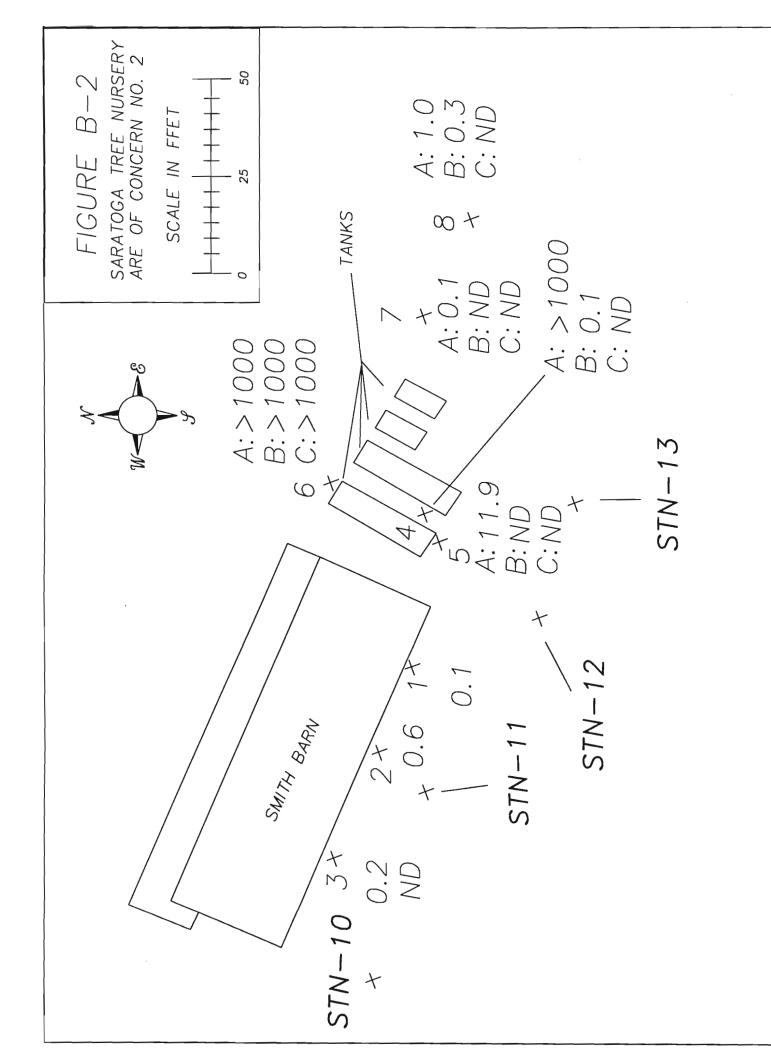


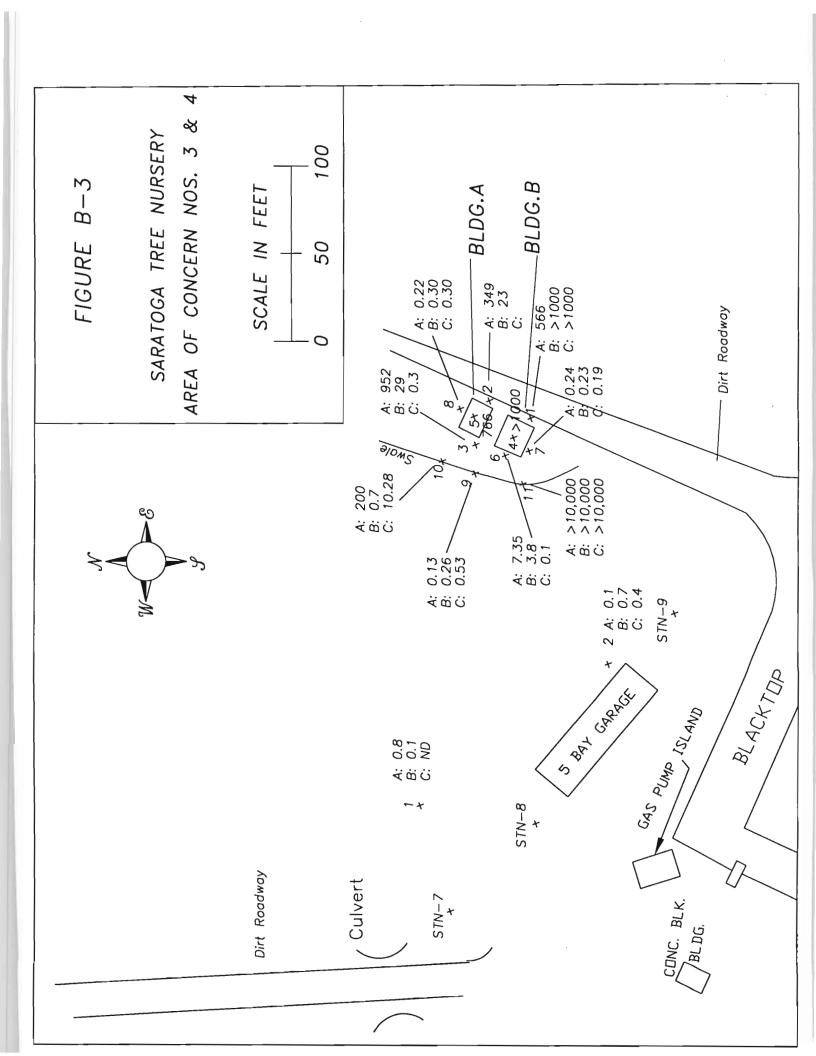
Saratoga Tree Nursery - Route 50 Facility Preliminary Investigation Data

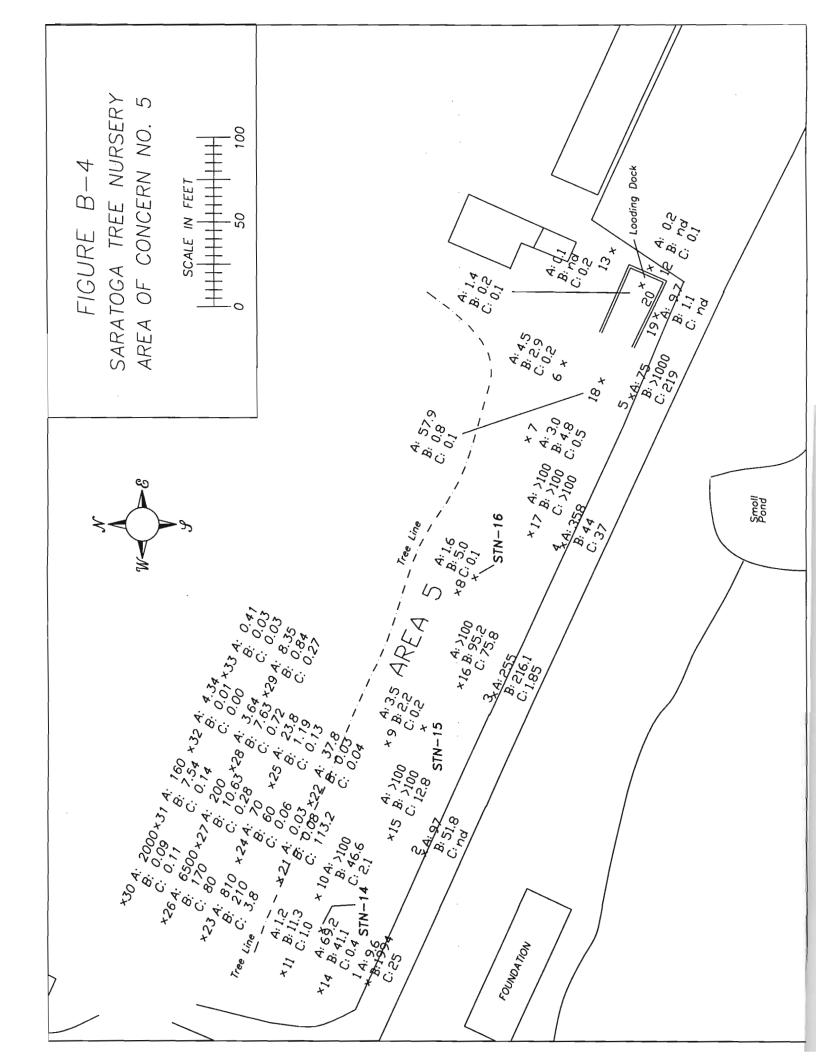
Sample	A(0-6")	B(6-12")	C(12-24")
STN-1	1249	NS	7.65
STN-1N	900.8	1013.4	685
STN-1E	10.7	22.44	25.7
STN-1S	2.47	2241	3198
STN-2	1.8	NS	0.122
STN-3	14.88	NS	2.84
STN-4	2.014	NS	0.439
STN-5	1.1	NS	0.37
STN-6	21.2	NS	1.8
STN-6E	59.9	45.76	92.79
STN-6S	1.17	0.84	0.107
STN-7	32.98	NS	1.72
STN-8	0.038	NS	0
STN-9	2.23	NS	0.23
STN-10	0.012	NS	1.987
STN-11	0.168	NS	2.46
STN-12	1.597	NS	0.66
STN-13	0	NS	0
STN-14	190.9	NS	14.6
STN-15	105.6	NS	92.52
STN-16	6.83	NS	7.96
STN-17	0.128	0	0
STN-18	68.7	12.39	1.516
STN-19	20.1	7.01	0.0366
STN-20	6.53	11.83	22.74
STN-21	19.7	4.4	0.161
STN-22	0.029	0	0
STN-23	5.98	0.89	0.1
STN-24	0.79	0	0
STN-25	0.01	0.24	0
STN-26	>10	0.71	0.03
STN-27	0.98	10	10
STN-28	7.27	6.66	3.72
STN-29 STN-30	0.01	0.01	
STN-30	2.5	8.36	0.15
	0.2	NS	NS
STN-32 STN-33	0.76	1.06	0.08
STN-34	1.41	5.69	3.79
STN-35	0.51	10.63	6
STN-36	0.01 0	0	6.64
STN-37	0.02	0.01	0.01
STN-38	0.06	0.05	0.01
STN-39	0.07	0.71	0
DOH-1	19	NS	NS
DOH-2	39.8	NS	NS
DOH-3	1.65	NS	NS
DOH-4	4.97	NS	NS
F1	36.8	3.85	2.66
F2	0.294	0.622	0.363
F3	0.436	0.434	0.332
F4	5.63	0.688	1.5
F5	0.685	0.952	0.458
F6	1.29	0.332	0.438
F7	1.23	0	0
F8	0.245	3.04	0.07
F9	0.493	0.199	0.195

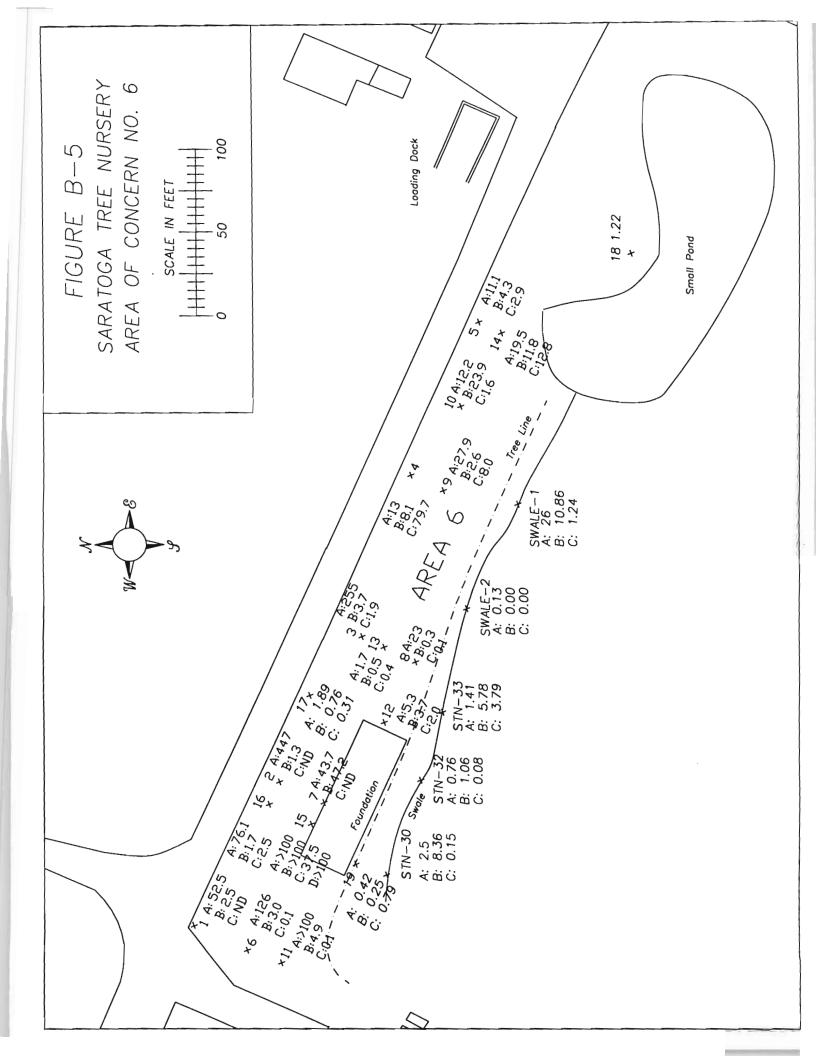
APPENDIX B **Figures** (All sample data is reported in parts per million, unless otherwise noted)

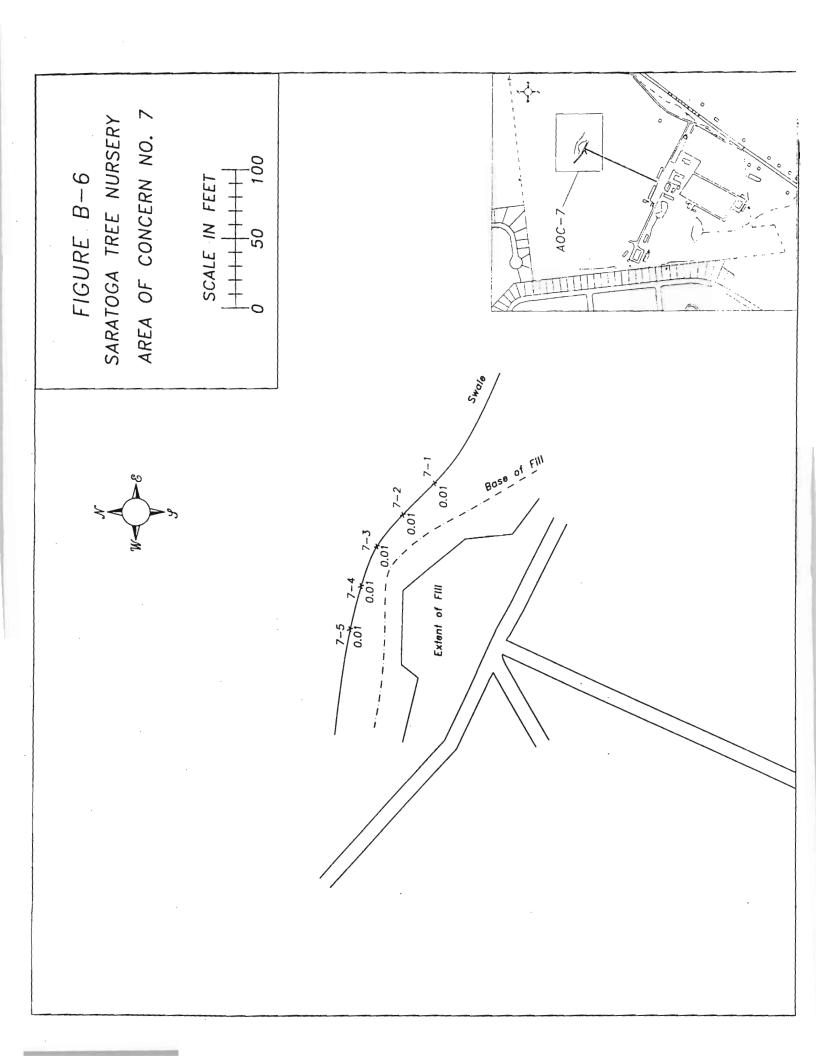


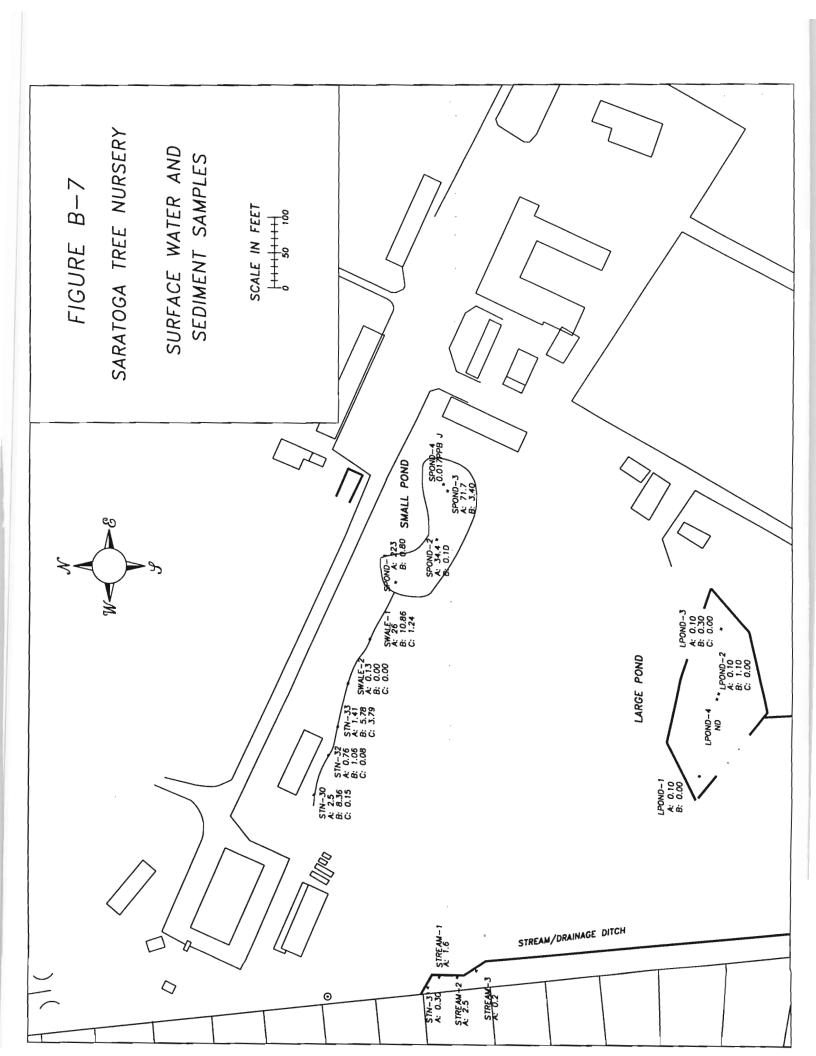


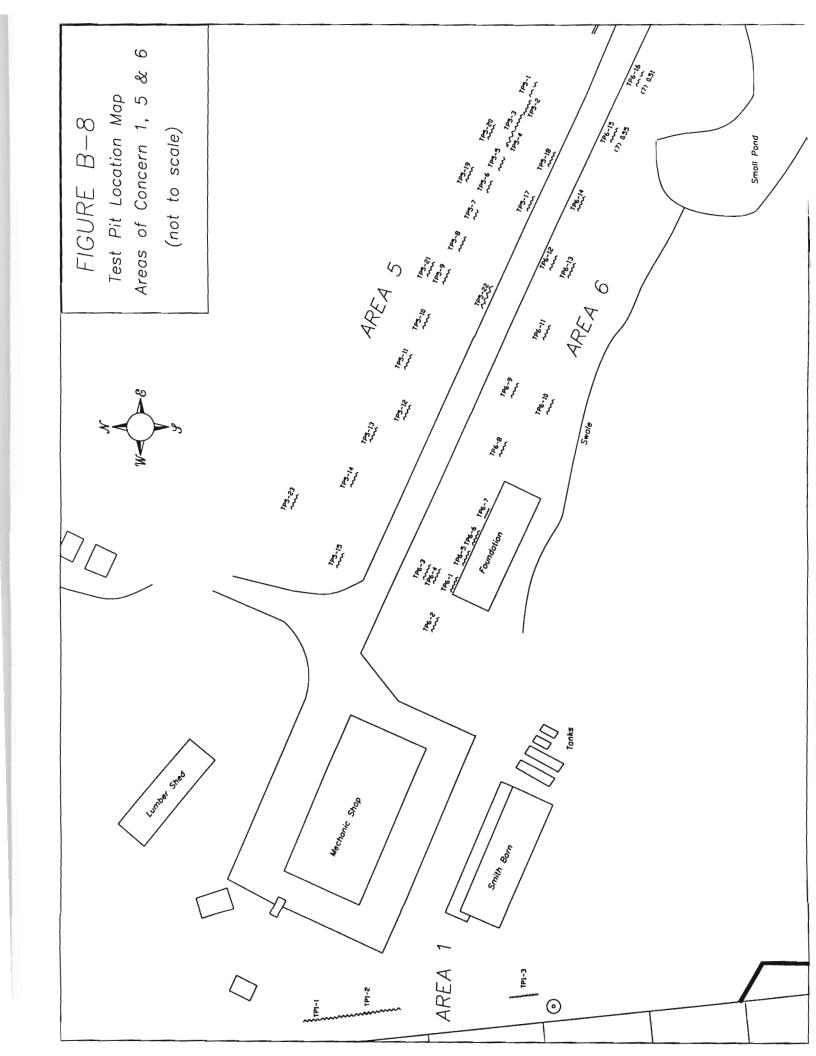


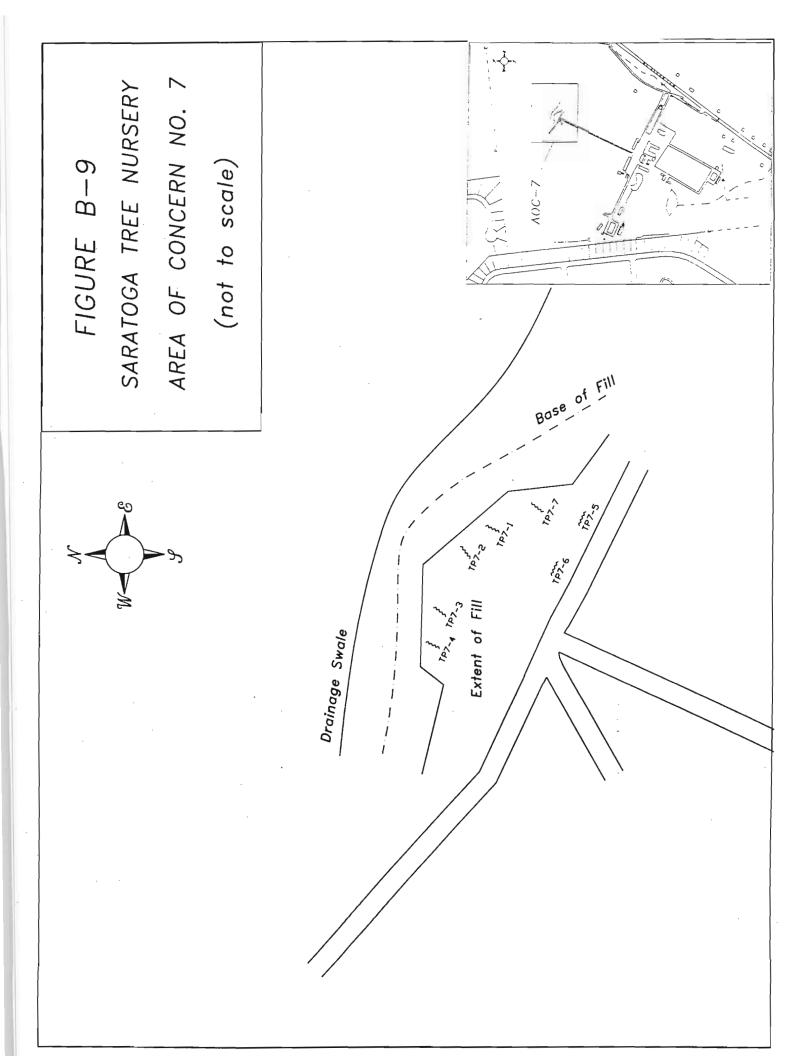


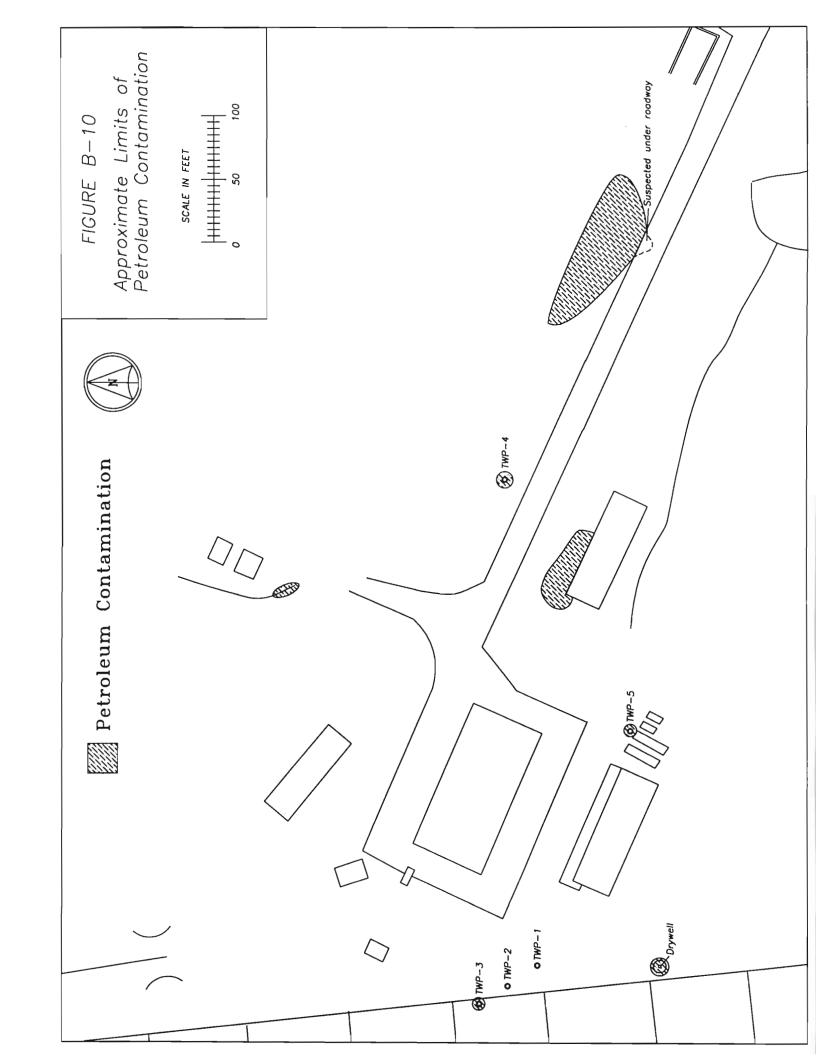


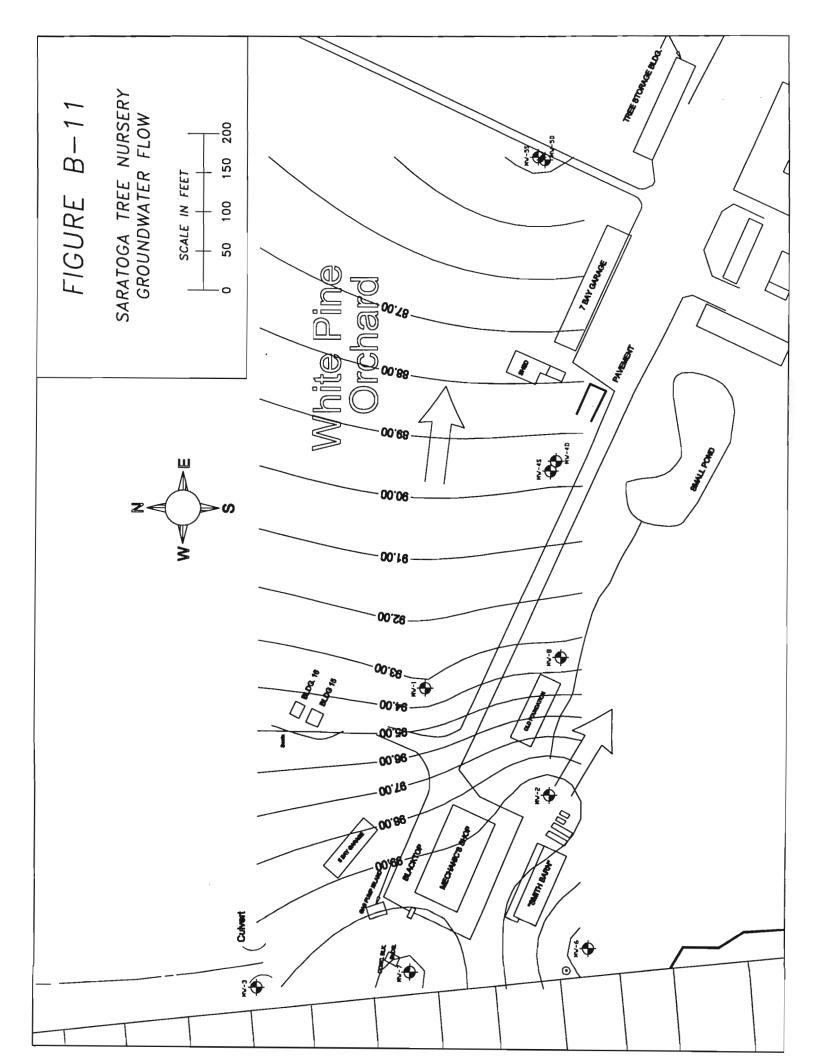












APPENDIX C

Well Construction Logs

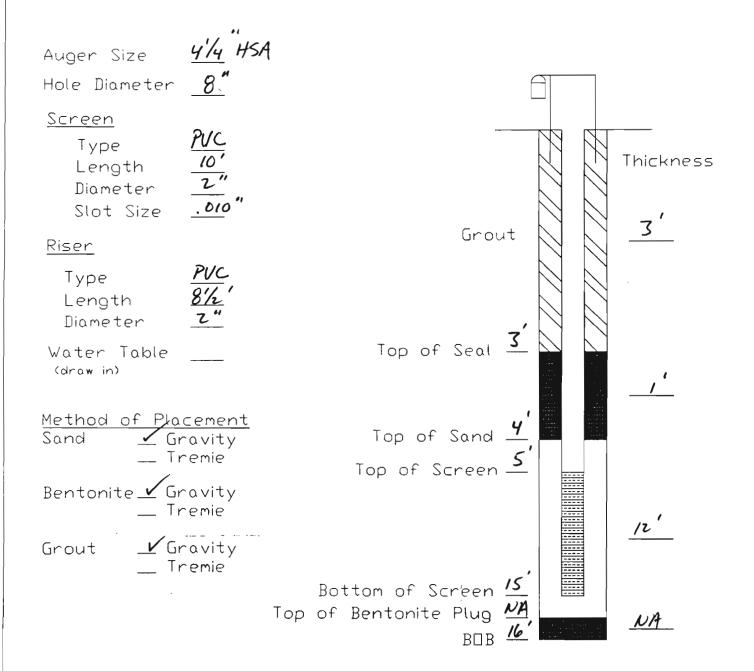
SITE: Saratoga Tree Nursery DATE: 7/25/95

Auger Size 41/4" HS Hole Diameter 8"	A
Hole Diameter 8"	
Screen Type Length Diameter Slot Size	Thickness
Riser	Grout 3
Type Length Diameter PUC 81/2' z"	
Water Table (draw in)	Top of Seal 3
Method of Placement Sand Gravity — Tremie	Top of Sand $\frac{4'}{5'}$ Top of Screen $\frac{5'}{5}$
Bentonite <u>✓</u> Gravity <u> </u>	Top of screen — /2'
Grout Gravity Tremie	
	Bottom of Screen 15 Top of Bentonite Plug 16 BOB 16

SITE: Saratoga Tree Nursery DATE: 7/25/95
WELL ID: MW-Z

Auger Size 4/4 HSA	
Hole Diameter g	
Screen Type Length Diameter Slot Size PVC 10' 2" .010"	Thickness
Riser	Grout 4
Type Length Diameter PVC 10' 2"	
Water Table (draw in)	Top of Seal 4
Method of Placement Sand Gravity	Top of Sand <u>6</u>
Tremie	Top of Screen 8'
Bentonite _ Gravity _ Tremie	17
Grout Gravity Tremie	/B'
	Bottom of Screen $\frac{B'}{MA}$ Top of Bentonite Plug $\frac{B'}{MA}$
	BOB 19

SITE: Saratoga Tree Nursery DATE: 7/25/95



SITE: Saratoga Tree Nursery DATE: 7/14/95 WELL ID: MU-48

Auger Size $\frac{4'4''}{8''}$ Hole Diameter $\frac{8''}{8}$	54
Hole Diameter 8.	
Screen Type Length Diameter Slot Size Screen 7/C 10' 2''	Thickness
Riser	Grout 3
Type Length Diameter Type 2"	
Water Table (draw in)	Top of Seal 3
Method of Placement Sand Gravity	Top of Sand <u>y'</u>
Tremie	Top of Sand $\frac{\mathbf{y'}}{\mathbf{5'}}$ Top of Screen $\frac{\mathbf{s'}}{\mathbf{a}}$
Bentonite _ Gravity _ Tremie	
Grout Gravity Tremie	
	Bottom of Screen $\frac{15}{NA}$ Top of Bentonite Plug $\frac{NA}{16}$ BOB $\frac{NA}{16}$

DEEP SHALLDW WELL DIAGRAM

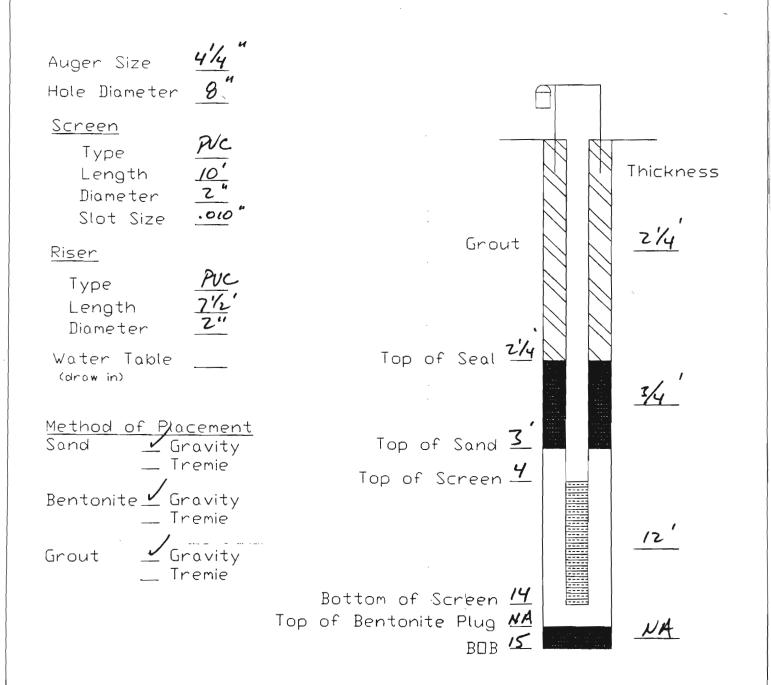
SITE: Saratoga Tree Nursery DATE: 7/27/95

WELL ID: MU-4D

Auger Size $\frac{4''_4}{8}$ " Hole Diameter $\frac{8}{8}$ "	·A
Hole Diameter 8."	
Screen Type Length Diameter Slot Size	Thickness
<u>Riser</u>	Grout 79
Type Length Diameter Vater Table (draw in)	Top of Seal 14'
Method of Placement Sand Gravity Tremie	Top of Sand 16'4" Top of Screen 12'4"
Bentonite ✓ Gravity — Tremie	9'8"
GroutGravity _ Tremie	
_	Bottom of Screen 23'4"
	Top of Bentonite Plug 26' BOB 27'

SITE: Saratoga Tree Nursery

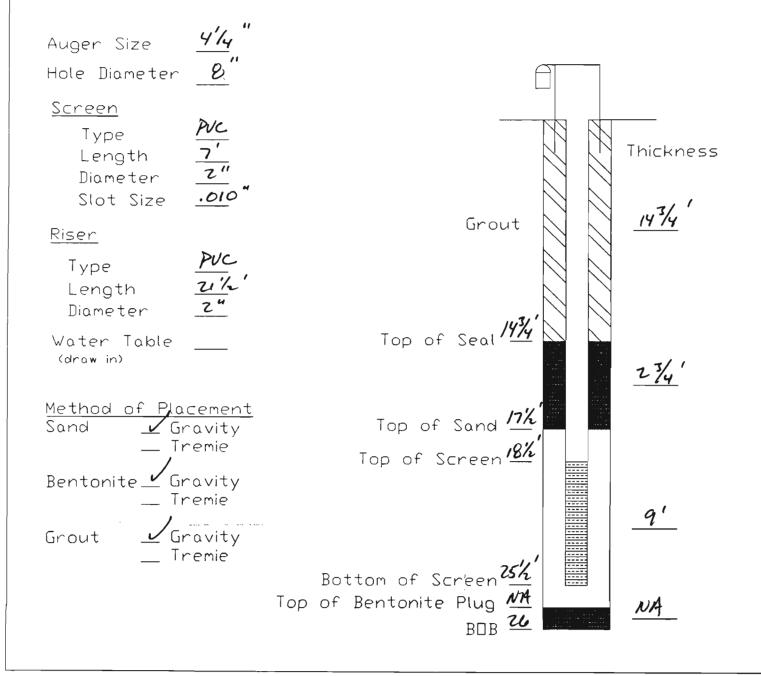
DATE: 7/26/96



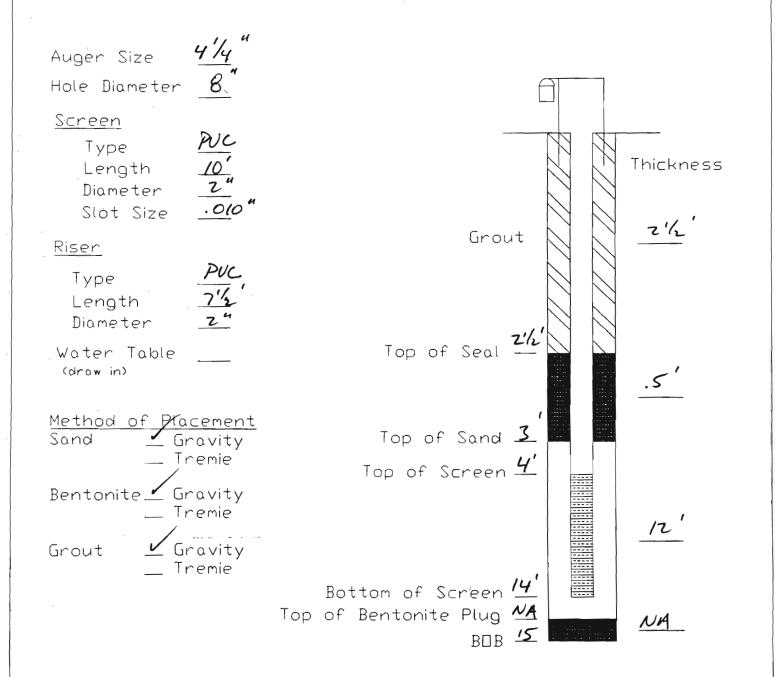
Deep Shallow Well Diagram

SITE: Saratoga Tree Nursery

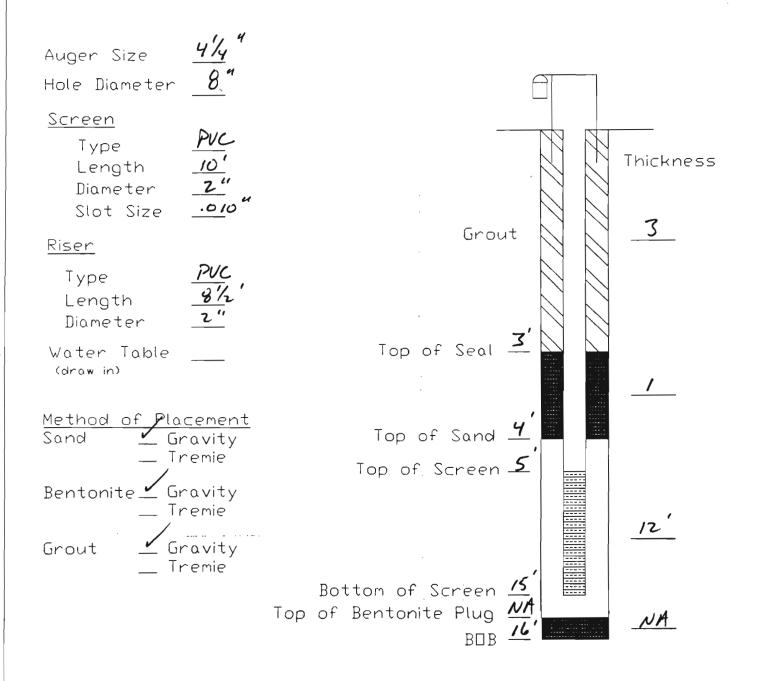
DATE: 7/27/95



SITE: Saratoga Tree Nursery DATE: 7/26/15
WELL ID: MW-6



SITE: Saratoga Tree Nursery DATE: 7/26/95



SITE: Saratoga Tree Nursery DATE: 7/27/95

Auger Size $\frac{9\%}{8}$ "	A
Screen Type Length Diameter Slot Size	Thickness
Riser	Grout 3
Type Length Diameter	Top of Seal 3'
Water Table	Top of Seal 3
Method of Placement Sand Gravity Tremie	Top of Screen <u>5'</u>
Bentonite _ Gravity _ Tremie	TOP OF SCREEN —
Grout Gravity Tremie	
	Bottom of Screen 15 Top of Bentonite Plug 16 BOB 16

APPENDIX D

Laboratory Data Sheets - Soil

SITE NAME: SARATOGA TREE	: N	IURSERY		FIELD ID: AREA1 - 1A
SAMPLE NUMBER: 595-192-0	1			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
	C	UANT (ug/k	 g)	DETECTION LIMIT:
ALPHA-BHC	ł	110		PESTICIDES - CRDL
BETA-BHC	1	ND	I	AROCLORS - CRDL
DELTA-BHC			 I	DILUTION FACTOR - 1
GAMMA-BHC	1	ND	 I	
HEPTACHLOR	1	ND	- -	
ALDRIN.	1	ND	1	
HEPTACHLOR EPOXIDE		ND		AROCLOR QUANT (ug/kg)
ENDOSULFAN I			1	1016 I NA
DIELDRIN	1	ND	 I	1221 I NA
4,4'-DDE	1		•	1232 I NA
ENDRIN	1	ND		124 2 I NA
ENDOSULFAN II	1	ND	- -	1248 I NA
4,4'-DDD + 2,4'-DDD	1	120	Ι	1254 I NA
ENDOSULFAN SULFATE	1	ND	Ι	1260 I NA
4,4'-DDT	1	2600	ı	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	ı	ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	 I	ı
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	. N	URSERY	FIELD ID: AREA1 - 5B
SAMPLE NUMBER: 595-192-1	4		EXTRACTION METHOD: SFE
MATRIX: SOIL			% SOLID: NC
PESTICIDE	Q	UANT (ug/kg)	DETECTION LIMIT:
ALPHA-BHC	1	ND I	PESTICIDES - CRDL
BETA-BHC	I	ND I	AROCLORS - CRDL
	1	ND I	DILUTION FACTOR - 1
GAMMA-BHC	1	ND !	-
HEPTACHLOR	1	ND 1	-
ALDRIN	1	ND I	-
HEPTACHLOR EPOXIDE	1	ND I	AROCLOR QUANT (ug/kg)
ENDOSULFAN I		ND I	1016 I NA
DIELDRIN	1	ND I	1221 I NA
, , , , , , , , , , , , , , , , , , , ,		50 <u>l</u>	1232 I NA
ENDRIN	•	ND I	1242 I NA
ENDOSULFAN II		ND I	1248 I NA
4,4'-DDD + 2,4'-DDD	1	56 I	1254 I NA
ENDOSULFAN SULFATE	1	ND I	1260 I NA
4,4'-DDT	1	160	
ENDRIN ALDEHYDE	1	ND I	-
ENDRIN KETONE	. 1	ND I	-
METHOXYCHLOR	1	ND 1	-
CHLORDANE (ALPHA/GAMMA)	١	ND/ND I	- ,
TOXAPHENE	ı	NA I	-

SITE NAME: SARATOGA TRE	ΕN	URSERY	_	FIELD ID: 1 - 8B
SAMPLE NUMBER: 595-192-	23 			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
PESTICIDE	 Q	UANT (u	 g/kg)	DETECTION LIMIT:
ALPHA-BHC	1	ND	1	PESTICIDES - CRDL
		ND	1	AROCLORS - CRDL
DELTA-BHC		ND	1	DILUTION FACTOR - 1
	1	ND	1	
	ł	ND	1	
		ND	1	
HEPTACHLOR EPOXIDE		ND	1	AROCLOR QUANT (ug/kg)
		ND	I	1016 I NA
DIELDRIN		ND	1	1221 I NA
4,4'-DDE		740	1	1232 I NA
	I	ND	1	1242 I NA
ENDOSULFAN II		ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD	1	2000		1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	6000	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR		ND	1	
CHLORDANE (ALPHA/GAMMA)		ND/ND	I	T.
TOXAPHENE	 !	NA		

SITE NAME: SARATOGA TREE	E N	URSERY		FIELD ID: 1 - 168
SAMPLE NUMBER: 595-192-4	4 7			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
PESTICIDE	C	UANT (ug/	'kg)	DETECTION LIMIT:
ALPHA-BHC	ı	ND		PESTICIDES - CRDL
	١	ND		AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
	I	ND	1	
	ı	ND	!	
ALDRIN		ND		
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/kg)
		ND		
	ı	ND		
•	1	100	1	1232 I NA
	١	ND		
ENDOSULFAN II	ŀ	ND		1248 I NA
4,4'-DDD + 2,4'-DDD			1	1254 I NA
ENDOSULFAN SULFATE		ND		1260 I NA
4,4'-DDT	1	9000	1	
ENDRIN ALDEHYDE	1			
ENDRIN KETONE	1	ND	ı	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)			1	
TOXAPHENE	1	NA	- -	

TOL PESTICIDES/4900LORS ANALYSIS

SITE NAME: SARATOGA TREE	. N	URSERY		FIELD ID: 1 - 19A
SAMPLE NUMBER: 595-198-0	フ 			EXTRACTION METHOD: SEE
MATRIX: SOL			•	% SGLID: NC
FESTICIDE	Q	IUANT (Lg	 /kg)	CETECTION LIMIT:
PHA-BHC	ì	ND	1	PESTICIDES - CROL
EFTA-BHC		ND	1	AROCLORS - CRDL
CELTA-BHC	1	ОИ	-	DILUTION FAUTOR - 1
GAMMA-BHC	1	ND	1	•
		ИD	1	
A_DRIN	1	CN	1	
-EPTACHLOR EFEXIDE	 1	ПD	1	AMOCLOR SMANT (ug/kg)
	1	ND	. 1	1016 I NA
CIELDRIN	1		1	1221 : NA
4.4'-00E	1	1400		•
		ИД	1	1242 I NA
ENDOSULFAN II	1	ND	1	1248 : NA
4.41~DDD + 1.41~DDD	1	430	ı	1254 NA
ENDOSULFAN SULFATE		ND	. 1	1260 : NA
4.41-DDT	1	3400	1	
ENDRIN ALDEHYDE	1	ND	1	•
ENDRIN KETONE	1	-	1	•
METHOXYCHLOR	1		1	1
CHLORDANE (A_PHAZGAMMA)	1	ND/ND	1	
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	E N	URSERY	FIELD ID: 1 - 22C
SAMPLE NUMBER: 595-198-	18		EXTRACTION METHOD: SFE
MAT=.x: SOIL			% SULID: NC
	ندا	UANT (ug∕kç	
	ì	CIA	PESTICIDES - CROL
BETA-BHC	ţ	ND	ARCOLORS - CROL
	i	ND .	DILUTION FACTOR - 1
	1	ND	
HEPTACHLOR	i	ИD	
ALDP:N		D	- -
HERTACHLOR EPOX.DE			
	ı	ND	1016 I NA
DIECTIN	i	ND	1221 NA
4,41-00E		ND	1231 1 NA
		ND .	
END: F.B.FAN. T.1	1	В	1245 I NA
4.4 -00D + 2,41-0DD			125- I NA
ENDOSULFAN SULFATE	1	ND	1263 I NA
		ND	!
ENDRIN ALDEHYDE		NE.	 i
ENDERN KETONE	t	ND	 :
METHGXYCHLOR	1	ND .	<u>.</u>
UHLURDANE (ALPHA/GAMMA)			!
TÜXPPHENE		NA NA	 :

SITE NAME: SARATOGA TREE NURSEFY			FIELD ID: 1 - 25A
SAMPLE NUMBER: 595-198-	25		EXTRACTION METHOD: SFE
MATRIX: SDIL			% SOLID: NČ
	-		-
PESTICIDE	يا 	WANT ug/kg	DETECTION _IMIT:
AUPHA-BHC	ł	NC 1	PESTICILES - CROL
BETA-BHC	1	NE I	AROCLORS - CROL
DELTA-BHC	1	NC I	DILUTION FACTOR - 1
GAMMA-BHC		NË I	-
	1	NC I	-
ALDRIN	1	ND I	-
HEPTACHLOR EPOXIDE	1	Ni I	AROCLOR QUANT (ug -g)
ENDOSULFAN I	1	NE: I	1016 NA
DIELDRIN	1	MD I	1221 NA
4,4'-DOE		7 5 0 1	1232 NA
ENDPIN	1	1:0	1242 NA
ENDOSULFAN II			
4'-0004'-000	1	270 1	1254 NA
ENDOSULFAN SULFATE	1	ND I	1260 NA
4,4'-DDT		1700	
		ND I	· -
ENDRIN KETCHETTER	1	NO I	· -
METHOXYCHLOR	1	NE: I	,
CHLORDANE (ALPHA/GAMMA)	1	ND/N_ I	•
TOXAPHENE	1	NA I	· -

SITE NAME: SARATOGA TREE	NI	JRSERY		FIELD IO: TET - 3(3')
SAMPLE NUMBER: 696-213-74	<u>.</u>			는X:무. 해 해는 HE : 동FE
Marie de la sur	-			% E.E
	1.	SON' 1 -	 	· · · · · · · · · · · · · · · · · · ·
		MI.	:	41(P)(P4 - PeDL
		Mi.	1	den met - lene
ing na Sangaran Sang Sangaran Sangaran Sa	:	<u> 1913</u>	!	++11 pbp. F= 70€ = 5
GAMMA-BBI		igi		•
: =: ; =: .		ND	<u>-</u>	
ACCHIN	· I	ND 1	- -	
HESTAUHLOR ER MIDE	- - -	ND		AFOCLOR QUANT (uç/kç
ENCOSULFAM I	 !	ND		1(16 NA
	;	NI)	1	1021 I NA
4DDE	!	240	1	1232 I NA
ENCHIN	!	ND	1	1042 I NA
ENCTSULFAN []	:	ND	1	1148 I NA
4.41-000 + 2.41-000	- - ·	1200	;	1284 NA
ENCOSULFAN SULFATE	!	ND	1	1260 NA
4.4'-DDT	;	4600	!	
ENORIN ALDEHYCE	!	ND	1	•
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	1	
CHLÜRDANE (ALPHA/GAMMA)	1	DA/QN	1	•
TOXAPHENE	 1 	NA	1	•

SITE NAME: SARATOGA TREE	E N	URSERY		FIELD ID: TP1 - 3(4')
SAMPLE NUMBER: 595-213-	05			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NO
	 C	IUANT (ug.	_	DETECTION LIMIT:
ALPHA-BH[.:D	1	PESTICIDES - CREL
	1	* ₍₀	1	AROCLOFS - CROL
DELTA-BHI		.+Đ		DILUTION FACTOR - 1
GAMMA-BHO		ND		•
	ı	NU	1	
ALDRIN	i	*:0	t	
HERTACHLIS EPOXIDE	1	* 401	i	
ENDOSULFAN I		NO		
DIELDRIN		140	1	1721 I NA
4.41-DOE	1	7.0		1232 I NA
FIDPIN	1	NO	1	1242 I NA
		NO		1248 NA
4.41-000 - 2.41-000	i		1	1254 I NA
ENDOSULFAN SULFATE	1	NO	1	1260 I NA
4,41-00T	1	110	1	
ENDRIN ALDEHYDE	1	NO.	ı	
ENDRIN KETONE	1	ND	!	
METHOXYCHLOR	1	ND	ı	
CHLORDANE (ALPHAZGAMMA)	1	ND/ND	i	•
TOXAPHENE	1	NA NA	1	

SITE NAME: SARATOGA TRE	E N	WRSERY		FIELD ID: TP 1 - 3(51)
SAMPLE NUMBER: 595-213-				EXTRACTIO: METHOD: SFE
MATRIM: SDIL				% SOLID: 40
PEST1010E	ū	CANT (ug/k	ċ 	DETECTION LIMIT:
	;	ND	 :	PESTICIOEN - CHOL
SETA-SHC '\		ND	- -	AROILORS - CROL
DELTA-EHC	 i	DM		DILITION FACTOR - 1
	1	ND	 I	•
HEPTACHLOR	1	ND	 !	
ALDPIN	i	 МD	 i	
HERTALHLOR EROXIJE				ARDCLIR QUAN (ug/kg)
ENDOYGLEAN I		ND	- - !	
DIELOPIN		ND ND	 ;	1221 I No.
·	:	ND	 :	1232 I NA
	!	СМ	- -	1242 I NA
ENDOSULFAN 11			 ;	1248 NA
4,41-00D + 2.41-00D				1254 I NA
ENDOSCILEAN SULFATE	- - -	ND	 I	1260 I NA
4,4'-DDT		ND	 i	
ENDRIN_ALDEHYDE	- - -	CN	 !	
ENDR!N KETONE		ND	 !	
METHOXYCHLOR		ND	 !	1 -
CHLORDANE (ALPHA/GAMMA)	 1	ND/ND	·	
T				

I NA I

TOXAPHENE

SITE NAME: SARATOGA TREE	E NI	URSERY		FIELD 10: TP1 - 3:6')
SAMPLE NUMBER: 595-213-	07			EXTRACTION METHOD: SFE
MATPIX: SOIL	-			% SOLID: NC
		UANT (ug	/kg)	DETELTION LIMIT:
A1.6-4-8HC		NO		PESTICIONS - CROL
BETA-BHC .				ARBOLORS - CROL
OSLTA-BHC	;	ИD	;	DILUTION FACTOR - 1
	:	ND	i	•
	1	ND	1	
ALDFIN	:	ND		
HERTALHU O R EROXIDE		ND		APICUOR QUANT (ug/kg/
ENDOSULFAN I	!	ND	!	101a NA
CIELORIN	:			1201 NA
4.4 -DDE	;	ND		1232 I NA
ENOF IN		ND	;	12-2 I NA
ENSCRULFAN I)		ND	;	
4,4 -300 + 2,41-90D				
ENDIBULEAN SULFATE		ND		12e3 NA
4,41-DDT		34	ŧ	
ENDRIN ALDEHYDE		ND	;	
ENDSIN KETONE	;	ND	1	
	ţ	ND	:	ı
CHLORDANE (ALPHA/GAMMA)			1	
TOXAPHENE	;	NA	1	

SITE NAME: SARATOGA TREE	_ N	IURSERY	FIELD ID: 2 - 58
SAMPLE NUMBER: 595-198-3	5 		EXTRACTION METHOD: SFE
MATRIX: SOIL			% 55_1D: NC
	Ē	WANT tug/kg	- DETECTION CIMIT:
	1	NE I	PESTICIDES - CRDL
SETA-BHC		ND I	- AROCLORS - CRDL
DELTA-BHC	1	ND I	DILUTION FACTOR - 1
GAMMA-BHC	1	ND 1	-
	 l	ND 1	-
ALDRIN	1	I GM	-
HEPTACHLOR EPOXIDE	 I	NC I	ARÜCLOR QUANT (uç ~g)
ENDOSULFAN I	 I	ND I	1016 ! NA
DIELORIN	1	NC 1	1221 NA
4.4'-DOE	1	82 1	1232 NA
ENDRIN		NO I	1242 : NA
		MC I	1248 NA
4.4'-000 + 2,4'-000	!	100 1	1254 NA
ENDOSULFA', SULFATE	1	NE I	1260 : NA
4,4'-DDT	1	360 I	
ENDRIN ALPEHYDE	!	NG I	-
ENDRIN KETONE	i	NE I	-
METHOXYCHLOR	1	NC 1	-
CHLORDANE (ALPHA/GAMMA)	1	NDZNO I	-
TOXAPHENE	1	NE I	-

SITE NAME: SARATOGA TRE	E N	IURSERY		FIELD ID: 2 - 8A
SAMPLE NUMBER: 595-199-	04			EXTRACTION METHOD: SFE
MATRIE: SOIL				% SOLID: MC
PESTICION		∷aNT (ug	 /kg:	DETECTION LIMIT:
АСРНА-ВНО	1	ND	!	PESTICIDES - SROL
RETA-ERC		ND	:	AROCLORS - CROL
DELTA-SHC	1	ND	;	DILUTION FACTOR - 5
GAMMA-3HC	1	ND	1	
		ND	;	
		ND	;	
HEPTATHLOR EPOXICE				APOCL3R QUAN (ug/kạ)
ENDOSULFAN 1		ND		1016 N-4
		ND	:	1221 1 144
4,41-005	<u>-</u>	810	;	1232 I NA
ENDRIN		ND	1	1242 54
ENDOS: FAN I!				1248 %4
4.41-000 + 2.41-000	!	280		1254 1 344
ENDOSE FAN SULFATE	1	ND	:	1260 1-4
	1	2100	:	
			- -	
ENDRIN KETONE			1	
METHOXYCHLOR .		ND	1	
CHLOPSANE (ALPHAZGAMMA)		ND/ND	1	•
TOXAPHENE		NA	:	

BITE NAME: SARATUGA TREE	E N	URSERY		FIELD ID: 3 - 1A
SAMPLE NUMBER: 595-199-0)7 			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
PESTICIDE		USANT (192	(kg)	DETECTION L(M)T:
ALIPHA-EHC	1	NO	,	PESTICIDES - CROL
AATA-BHC			1	AROCLOPS - CRDL
OFLTA-BHC		ND		DILUTION FACTOR - 1
GAMMA-BHC	·	ND	1	•
	I	ND	!	
ALDRIN	 I	NÚ	1	
HERTAL HILDER SPINKLINE				AROCLOR QUANT (uş -g)
		ND		1016 : NA
SIELDRIN	!	ND	1	1221 NA
		570		1232 : NA
ENDRIN		ND		1242 : NA
ENDOSULEAN []	1	иО	1	1248 ! NA
41-000 + 3.41-000	!	180	1	1254 NA
ENDOSULFAN SULFATE	1	ND	1	1260 NA
4,4'-DDT		1500	ı	
ENDRIN ALDEHYDE	ì	NŪ	1	
ENDRIN KETONE	ı	ND	1	
METHOXYCHLOR		. ND	1	ı
CHLORDANE (ALPHAZGAMMA)		ND/NO	1	
TOXAPHENE		NA	i	

	NEW YOR	K STATE DEPARTME	NT of ENV	IRONMENT	TAL CONS	ERVATION
			'			
		DIVISION of HAZARI	OUS WAS	TE REMED	IATION	
			LIDOEDY A	DEA 4		
		SARATOGA TREE N	URSERY A	REA 4		
	-	_				
FIELD ID	Pb mg/Kg	As mg/Kg				
4-1A	130	113			_	
4-1B	21	58				
4-1C	7	26	·			
4-2A	177	68				
4-2B	18	83	_			
4-2C	8	26				
4-3A	230	44				
4-3B	34	53				
4-3C	10	28				
44	11,000	3,800			_	
45	296	50				

SITE NAME: SARATOGA TREE	: N	IURSERY		FIELD ID: AREA5 - 1A
SAMPLE NUMBER: 595-177-0	1			EXTRACTION METHOD: SFE
MATRIX: SOIL	- -			% SOLID: NC
		JUANT (ug/k	g)	DETECTION LIMIT:
ALPHA-BHC	•	ND		PESTICIDES - CROL
		ND		AROCLORS - CRDL
DELTA-BHC \		ND	- - 1	DILUTION FACTOR - 1
GAMMA-BHC		ND	 I	
HEPTACHLOR	•	ND		
ALDRIN	1	ИD	1	
HEPTACHLOR EPOXIDE	1		ı	AROCLOR QUANT (ug/kg)
ENDOSULFAN I	1	ND	ì	10 1 6 NA
DIELDRIN	1	ND	ı	
	ı	830	1	1232 NA
ENDRIN	1	ND	ļ	
ENDOSULFAN II	Į	ND	Ī	1248 I NA
4.41-000 + 2,41-DDD			 I	1254 I NA
ENDUSULFAN SULFATE	1	ND	1	1260 NA
4,4'-DOT	1	5000	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE		ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHAZGAMMA)	1	ND/ND	 I	
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	E N	IURSERY	-	FIELD ID: AREA5 - 3A
SAMPLE NUMBER: 595-177-0)フ			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
PESTICIDE	c	UANT (ug	 g/kg)	DETECTION LIMIT:
ALPHA-BHC		ND	1	PESTICIDES - CRDL
	1	ND		AROCLORS - CRDL
	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC	1	ND		
	١	ND		
ALDRIN		ND		
HEPTACHLOR EPOXIDE				AROCLOR QUANT (ug/kg)
	1	ND	1	1016 I NA
	ı	ND	1	
	I	1400	1	1232 I NA
	I	ND		
ENDOSULFAN II	١			1248 I NA
4,4'-DDD + 2,4'-DDD				1254 I NA
ENDOSULFAN SULFATE	1	ND	l	1260 I NA
4,4'-DDT	1	1100		
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	1	•
CHLORDANE (ALPHA/GAMMA)				1
TOXAPHENE	1	NA		

SITE NAME: SARATOGA TREE	NURSERY	FIELD ID: AREA5 - 3B
SAMPLE NUMBER: 595-177-0	18	EXTRACTION METHOD: SFE
MATRIX: SOIL		% SOLID: NC
	QUANT (ug/kg)	DETECTION LIMIT:
	I DN I	PESTICIDES - CRDL
	I DD I	AROCLORS - CRDL
DELTA-BHC		DILUTION FACTOR - 1
	I ND I	
	I ND I	
ALDRIN	I ND I	
HEPTACHLOR EPOXIDE	I ND I	AROCLOR QUANT (ug/kg)
	I ND I	1016 I NA
DIELDRIN	I ND I	1221 I NA
,	I 6500 I	1232 I NA
ENDRIN	I ND I	1242 I NA
ENDOSULFAN II		
4,4'-DDD + 2,4'-DDD	! 41000 I	1254 I NA
ENDOSULFAN SULFATE	I ND I	1260 I NA
4,4'-DDT	1330000 1	
ENDRIN ALDEHYDE	I ND I	•
ENDRIN KETONE	I ND I	•
METHOXYCHLOR	I ND I	•
CHLORDANE (ALPHA/GAMMA)	I ND/ND I	•
TOXAPHENE	I NA I	•

SITE NAME: SARATOGA TREE	NURSERY		FIELD ID: AREA5 - 4C
SAMPLE NUMBER: 595-177-1	12		EXTRACTION METHOD: SFE
MATRIX: SOIL	·		% SOLID: NC
PESTICIDE	QUANT (ug⁄kg)	DETECTION LIMIT:
ALPHA-BHC	I ND	 	PESTICIDES - CRDL
	I ND		AROCLORS - CRDL
	I ND		DILUTION FACTOR - 1
	I ND		
	I ND	1	
ALDRIN	I ND		
HEPTACHLOR EPOXIDE	I ND	1	AROCLOR QUANT (ug/kg)
	I ND	I	1016 I NA
	I ND	I	1221 I NA
•	1 1200		1232 I NA
ENDRIN	I ND	1	1242 I NA
ENDOSULFAN II		<u>-</u>	1248 I NA
4,4'-DDD + 2,4'-DDD	1 25000	1	1254 I NA
ENDOSULFAN SULFATE	I ND	1	1260 I NA
	1170000	1	
	I ND	1	
ENDRIN KETONE		1	
METHOXYCHLOR	I ND	1	
CHLORDANE (ALPHA/GAMMA)	I ND/ND	. 1	1
TOXAPHENE	I NA	 I	

SITE NAME: SARATOGA TREE	E NURSERY	FIELD ID: AREA5 - 7A
SAMPLE NUMBER: 595-127-1	19	EXTRACTION METHOD: SFE
MATRIX: SOIL		% SOLID: NC
	QUANT (ug/k	DETECTION LIMIT:
ALPHA-BHC	I ND	PESTICIDES - CRDL
EETA-BHC	1 ND	AROCLORS - CROL
DELTA-BHC	I ND	DILUTION FACTOR - 1
GAMMA-BHC	I ND	- -
HEPTACHLOR	1 ND	· - ·
ALDRIN	1 ND	. -
HEPTACHLOR EPOXIDE	I ND	AROCLOR QUANT (ug/kg)
ENDOSULFAN I	I ND	1016 I NA
DIELDRIN	I ND	1221 I NA
, – –	1 690	
ENDRIN	I ND	I 1242 I NA
ENDOSULFAN II	I ND	
4,4'-DDD + 2,4'-DDD	1 170	1254 I NA
ENDOSULFAN SULFATE	I ND	1260 I NA
4,4'-DDT	1 1400	
ENDRIN ALDEHYDE	I ND	- <i>-</i> I
ENDRIN KETONE	I ND	 !
METHOXYCHLOR	I ND	 I
CHLORDANE (ALPHA/GAMMA)		 ,
CHECKDAIL CHEFTIA CHITIA	I ND/ND	

SITE NAME: SARATOGA TREE	. N	URSERY		FIELD 1D: AREA5 - 15C
SAMPLE NUMBER: 595-191-0	16			EXTRACTION METHOD: SEE
MATRIX: SOIL				% SOLID: NC
PESTICIOS	Ę	IDANT (ug.		DETECTION LIMIT:
ALPHA-8HC	ı	ND	1	PESTICIDES - CRDL
BSTA-BHC	1	NO		AROCLORS - CROL
	1	NO		DILUTION FACTOR - 1
GAMMA-BHC	1	ND		
HEPTACHLOR	1		1	
ALDRIN	1	ND	1	
HEPTACHLOR EPOXIDE	١	ND		AROCLOR QUANT (ug/kg)
ENDOSULFAN I	1	ND		1016 I NA
DIELDRIN	١		ı	1221 I NA
	1		1	1232 I NA
ENDRIN	١	ND	1	1242 I NA
ENDOSULFAN II	1	ND	i	1248 I NA
		410	1	1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	ı	880	 I	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	ı	ND	1	
METHOXYCHLOR	1	ND		
CHLORDANE (ALPHA/GAMMA)	ı	ND/ND	1	
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	E N	URSERY	FIELD ID: AREA5 - 19A
SAMPLE NUMBER: 595-191-1	L6 		EXTRACTION METHOD: SFE
MATRIX: SOIL			% SOLID: NC
PESTICIDE		UANT (ug/kg)	
ALPHA-BHC		ND I	PESTICIDES - CROL
BETA-BHC	١	ND 1	AROCLORS + CRDL
	1	ND I	DILUTION FACTOR - 1
GAMMA-BHC	ļ	ND I	•
HEPTACHLOR	1	ND I	-
ALDRIN	1	ND I	-
HEPTACHLOR EPOXIDE	1	ND I	AROCLOR QUANT (ug/kg)
ENDOSULFAN I	t	ND I	1016 I NA
DIELDRIN	ŧ	ND I	1221 NA
4,4'-DDE	I	5000 I	1232 I NA
ENDRIN	1	ND I	1242 I NA
ENDOSULFAN II	1		
.4,4'-DDD + 2,4'-DDD	1	1400	1254 I NA
ENDOSULFAN SULFATE	I	ND I	1260 I NA
4,4'-DDT	- - -	4900 I	
ENDRIN ALDEHYDE	1	ND I	-
ENDRIN KETONE	1	ND I	-
METHOXYCHLOR	1	ND I	-
CHLORDANE (ALPHA/GAMMA)	1	ND/ND I	
TOXAPHENE	1	NA I	-

SITE NAME: SARATOGA TRE	E N	URSERY		FIELD ID: AREA5 - 19C
SAMPLE NUMBER: 595-191-	18			EXTRACTION METHOD: SFE
MATRIX: SOIL				% SOLID: NC
		UANT (ug	 /kg)	DETECTION LIMIT:
ALPHA-BHC		ND	1	PESTICIDES - CRDL
BETA-BHC	1	ND	1	AROCLORS - CROL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
		ND	1	
HEPTACHLOR	1	ND	1	
ALDRIN		ND	1	
HEPTACHLOR EPOXIDE		ND		AROCLOR QUANT (ug/kg)
	1	ND	1	1016 I NA
DIELDRIN	1	ND	ı	1221 I NA
	1	ND	1	1232 I NA
	1	ND	١	
ENDOSULFAN II				
4,4'-DDD + 2,4'-DDD	1	ND		1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	ND	l 	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	 	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND		1
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	IN 3	URSERY	_	FIELD ID: AREA6 - 2C
SAMPLE NUMBER: 595-178-0)6			EXTRACTION METHOD: SFE
MATRIX: SOIL	- 			% SOLID: NC
	Q	UANT (ug	 3/kg)	DETECTION LIMIT:
	1	ND		PESTICIDES - CRDL
BETA-BHC		ND		AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC		ND	1	
	1	ND	1	
		ND	1	
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/kg)
ENDOSULFAN I	1	ND	1	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
		56	1	1232 I NA
ENDRIN	1	ND		1242 I NA
		ND	ļ	1248 I NA
4,4'-DDD + 2,4'-DDD	1	320		1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	2600		
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND		
TOXAPHENE	1	NĄ		

SITE NAME: SARATOGA TRE	E :	NURSERY		FIELD ID: AREA6 - 8A
SAMPLE NUMBER: 595-178-	22			EXTRACTION METHOD: SFE
MATRIX: SOIL		_		% SOLID: NC
PESTICIDE		QUANT (ug	 /kg)	DETECTION LIMIT:
ALPHA-BHC	1	ND	1	PESTICIDES - CRDL
BETA-BHC		ND		AROCLORS - CRDL
	·	ND	1	DILUTION FACTOR - 1
GAMMA-BHC		ND	1	
	1	ND	 I	
ALDRIN		ND	1	
		ND	1	AROCLOR QUANT (ug/kg)
ENDOSULFAN I	Ţ	ND		1016 I NA
	1	ND		1221 I NA
	1	2700	ı	1232 I NA
	1	ND		
ENDOSULFAN II	1	ND		
4,4'-DDD + 2,4'-DDD			1	1254 I NA
ENDOSULFAN SULFATE			1	1260 I NA
	1	25000	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE.			1	
METHOXYCHLOR	1	•	!	
CHLORDANE (ALPHA/GAMMA)			1	
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	- N	URSERY		FIELD ID: STREAM 2
SAMPLE NUMBER: 595-187-2	22			EXTRACTION METHOD: SFE
MATRIX: SDIL	- - -			% SOLID: NC
	Q	UANT (ug/	'kg)	DETECTION LIMIT:
	1	ND		PESTICIDES - CROL
BETA-BHC		ND		AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC	1	ND	1	
HEPTACHLOR	1	ND	I	
ALDRIN		ND		
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/kg)
		ND		
DIELDRIN		ND	1	1221 I NA
•	1	110	1	1232 I NA
ENDRIN	1	ND	1	1242 I NA
ENDOSULFAN II		ND	ı	1248 I NA
4,4'-DDD + 2,4'-DDD	1	360	ı	1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	360	1	
ENDRIN ALDEHYDE	1	ND	ı	
ENDRIN KETONE	I	ND	ı	
METHOXYCHLOR	١	ND	1	
CHLORDANE (ALPHA/GAMMA)			ı	
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TRE	FIELD ID: SPOND - 38			
SAMPLE NUMBER: 595-187-	EXTRACTION METHOD: SFE			
MATRIX: SOIL				% SOLID: NC
PESTICIDE	Q	TAAU	 g/kg)	DETECTION LIMIT:
ALPHA-BHC	1	ND	1	PESTICIDES - CRDL
BETA-BHC		ND	1	AROCLORS - CRDL
	 I	ND	1	DILUTION FACTOR - 1
GAMMA-BHC	1	ND	1	
HEPTACHLOR	1	ND	1	
ALDRIN	1	ND	1	
		ND		3 3
ENDOSULFAN I		ND		1016 I NA
DIELDRIN		ND	1	1221 I NA
4,4'-DDE		97	1	1232 I NA
ENDRIN		ND	1	1242 I NA
ENDOSULFAN II	- ~ -	ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD	1	380	1	1254 I NA
ENDOSULFAN SULFATE	1	ND		1260 I NA
4,4'-DDT	 	ND		
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	1
TOXAPHENE	1	NA		

SITE NAME: SARATOGA TREE	FIELD ID: LPOND 1B			
SAMPLE NUMBER: 595-187-1		EXTRACTION METHOD: SFE		
MATRIX: SOIL				% SOLID: NC
PESTICIDE		 ANT (ug/	 kg)	DETECTION LIMIT:
ALPHA-BHC	1		1	PESTICIDES - CRDL
BETA-BHC	1	ND	1	AROCLORS - CROL
DELTA-BHC	I	ND	1	DILUTION FACTOR - 1
GAMMA-BHC	1	ND	ı	
HEPTACHLOR	1	ND	1	
ALDRIN	1	ND	1	
HEPTACHLOR EPOXIDE	1			AROCLOR QUANT(ug/kg)
ENDOSULFAN I	ţ	ND	١	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
4,4'-DDE	ı	ND	1	1232 I NA
ENDRIN	I	ND		1242 I NA
ENDOSULFAN II	1	ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD	1	ND	1	1254 I NA
ENDOSULFAN SULFATE	1	ND	ı	1260 I NA
4,4'-DDT	1	ND	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	•
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	,
TOXAPHENE	1	NA	 	•

SITE NAME: SARATOGA TREE	ΕN	IURSERY		FIELD ID: SPOND - 4
SAMPLE NUMBER: 595-187-2	24 			EXTRACTION METHOD: SPE
MATRIX: SURFACE WATER				% SOLID: NA
PESTICIDE		UANT (ug/	 L)	DETECTION LIMIT:
ALPHA-BHC	1	ND		PESTICIDES - CROL
BETA-BHC		ND	1	AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC		ND		
HEPTACHLOR	1	ND	1	
ALDRIN		ND	1	
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/L)
ENDOSULFAN I	1	ND	1	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
	ı	0.002J		123 2 I NA
ENDRIN	1	ND	1	1242 I NA
	1	ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD			1	1254 I NA
ENDOSULFAN SULFATE	ı	ND	1	1260 I NA
4,4'-DDT	1	ND	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND		
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	r
TOXAPHENE	1	NA	1	

SITE NAME: SARATOGA TREE	Ν	URSERY	FIE	LD ID: LP	0ND -	4
SAMPLE NUMBER: 595-187-2	RACTION M	ETHOD	: SPE			
MATRIX: SURFACE WATER	- -		% SI	OLID: NA		
		UANT (ug/L)	_	DETECTIO	N LIM	I T :
		ND 1	_	PESTIC	IDES -	- CRDL
BETA-BHC	1	ND I	-	AROCLO	RS -	CRDL
		ND I	_	DILUTI	ON FAI	CTOR - 1
GAMMA-BHC		ND I	-			
	1	ND I	-			
	1	ND I	_			
HEPTACHLOR EPOXIDE	1	ND I	-	AROCLOR	QI	JANT (ug/L)
ENDOSULFAN I	I	ND I	_	1016	I	NA
DIELDRIN	 I	ND I	_	1221	1	NA
	ı	ND 1	-	1232	1	NA
	1	ND I	_	1242	1	NA
ENDOSULFAN II	 	ND I	_	1248	ı	NA
4,4'-DDD + 2,4'-DDD	1	ND I		1254	1	NA
ENDOSULFAN SULFATE	1	ND I	_	1260	ı	NA NA
4,4'-DDT	1		_			
ENDRIN ALDEHYDE	1	ND I	_			
ENDRIN KETONE	ŧ		· -			
METHOXYCHLOR	1	ND I	-			
CHLORDANE (ALPHA/GAMMA)	1	ND/ND I				
TOXAPHENE	1	NA I	· -			

APPENDIX E

Laboratory Data Sheets - Groundwater

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MUBILE LABORATORY VOLATILE AMALYSIS

SITE NAME: SARATORA TREE NURSERY

FIELD ID: SIN MW- I

SITE CODE: NA

PARCENT SOLIDS: NA

SAMPLE MUMBER: 545-263-05 MATRIX: WATER

SUBMISSION DATE: 09/20/95

ARCHIVE NO.:U76305

ANALYS)S DATE: 09/22/95 DATA FILE NO.: 9504B3UA.D

- COMPOUND	CONC (PPB)	! COMPOUND (00NC (PPB)
Winut Chloride	MD	4 - Chlorotoluene	. NO
Hromomethane	14D	1 1,3 - Dichlorobenzene	ND
I'h lornethane	N:17	1, 1,4 - Dichlorobenzene	NO
Tricblorofluoromethans	T4Ď	1 1.2 - Dichlorobenzene	Cl4
Acstane	NID	1 1,2,4 - Trichlorobenzer	ne NO
1,1 Dichlargethene	HD	1 1,2,3 - Trichlorobenzer	
Carbon disulfide	M()		
Mothylene Chloride	HD		
trans-1,2-Dichlorsethone	ND	I NON-TARGET COMPOUR	408
1,1-Dichloroethane	ND		
Vinyl Acetate	ND	!	
2-Butanane	MD		
cis-1,2-Dichloroethene	ND	1	
Chloroform	ND	1	
1,1,1-Trichloroethane	ND	I	
Carbontetrachloride	ND	1	
1,2-Dichloroethane	ND		
Benzene	ND	1	
Trichloroethene	ND	1	
1.2-Dichloropropane	GM	1	
Bromodichloromethane	ND		
4-Methyl-2 Pentanone	NO	1	
cis-1,3-Dichloropropene	ND	1	
Talueñe	140	+	
trans-1,3-Dichloropropene	ND	1	
1,1,2 Trichlornethane	MD	1	
2-Héxanone	ND		
letrachlorgethene	ND		
Dibromochloromethane	ND	1	
Chlorobenzene	(14)	1	
Ethylbenzene	MD		
M.F. Xylene	ND	1	
El-Xulene	ND	NO = LESS THAN 5 PF	οĘ
Styrene	ND	1	Ĵ.
Sromoform	MD	. ALL CONCENTRATIONS LES	SS THAN
1122Tetrachloroethane	ND	7 PPS ARE ESTIMATES	
V-Chlorotoluene	MO	1	,

SITE NAME: SARATOGA TREE NURSERY FIELD ID: STN - MW - 1

SAMPLE NUMBER: 595-263-05 EXTRACTION METHOD: SPE

MATRIX: GROUNDMATER % SOLID: NA

MHIRIM: BROOMOWHIER				A SULID. NA
		· 		 .
estibles	1,	WANT Cug	4L)	DETECTION LIMIT:
AUPHA-880	!	NO.	!	PESTICIDES - CANL
ARTA-880	1	840	ŧ	AARM ABO PEN
OELTA-BHC	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC		NO	1	•
		NO		
ALORIN	ţ	ND	t	
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/L)
		NO		
01E0.0#1N		ND		
	ł	0.004	ŧ	1232 I NA
ENDRIN	1	NO	1	
	ŧ	ND	!	1248 NA
-,4'-000 + 2,4'-000	1	0.01		
ENCOSULFAM SULFATE	i	ND		1269 I NA
	1	0.02	t	
	}	ОИ	1	
	1	ND	1	
		ND		
CHLORDANE (ALPHAZGAMMA)	1	ND/ND	1	

TOMAPHENE I NA L

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: SARATOGA TREE NURSERY

FIELD ID: MW - 1 % SOLID: NA

SAMPLE NUMBER: 595-311-01 MATRIX: GROUNDWATER

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	- ND	
2-Chlorophenol	ND I	Detection limit - CRDL
Bis(2-Chloroethyl)Ether	ND I	
1 3-Dichlorobenzene	I GM	
1 4-Dichlorobenzene	ND I	
1 2-Dichlorobenzene	ND I	
Benzyl Alcohol	ND I	
2-Methyiphenol	ND I	
bis(2-chloroisopropyl)EtH		
Hexachloroethane	ND I	TIC - No TICs reported
4-Methylphenol	ND I	· ·
N-Nitroso-di-propylamine	I GN	
Nitrobenzene	ND 1	
Isophorone	ND I	
2-Nitrophenol	ND I	
2 4-Dimethylphenol	ND I	
bis(2-chloroethoxy)Methan		
2 4-Dichlorophenol	ND I	
1 2 4-Trichlorobenzene	. ND 1	
Naphthalene	ND I	
Benzoic acid	ND I	
4-Chloroaniline	ND I	
Hexachlorobutadiene	ND I	
4-Chloro-3-Methylphenol	ND I	
2-Methylnaphthalene	ND I	
Hexachlorocyclopentadien	e ND I	
2,4,6-Trichlorophenol	ND I	
2,4,5-trichlorophenol	ND I	
2-Chloronaphthalene	ND I	
2-Nitroaniline	ND I	
Acenaphthylene	ND I	
Dimethyl Phthalate,	ND 1	
2,6-Dinitrotoluene	ND I	
Acenaphthene	ND I	
3-Nitroaniline	ND I	
2,4-Dinitrophenol	ND 1	
Dibenzofuran	ND I	
4-Nitrophenol	ND 1	t .

COMPOUND	CONC(ug/L)	1
2,4-Dinitrotoluene	ND	1
Fluorene	ND	1
4-Chlorophenyl-phenylet	her ND	1
Diethylphthalate	ND	1
2 Methyl 4,6-Dinitrophe	nol ND	ŀ
N-Nitrosodiphenylamine	ND	1
4-Nitroaniline	HD	1
4-Bromophenyl-phenyleth	er ND	1
Hexachlorobenzene	ND	}
Pantachlorophenol	ND	
Phenanthrene	ND	1
Anthracene	ND	ł
D:-N-Butylphthalate	ND	1
Carbazole	DM	1
Fluoranthene	ND	-
Pyrene	ND	1
4,4'-DDD	ND	1
Butylbenzylphthalate	ND	1
Chrysene	ND	1
Banzo (a) Anthracene	ND	1
bis(2-Ethylhexyl)Phthal	ate ND	l
Di-M-Octyl Phthalate	ИD	1
8enzo(b∕k)Fluoranthene	ΝD	1
Banzo(a)Fyrene	ИD	-
Indono(1,2,3-cd)Pyrene	ND	1
Dibenz(a,h)Anthracene	DN	ŀ
Benzo(g,h,i)Perylene	ИD	1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-2S

SITE CODE: NA PERCENT SOLIDS: NA

SAMPLE NUMBER:595-264-01 MATRIX:WATER

SUBMISSION DATE: 09/21/95 ARCHIVE NO.: U26401

ANALYSIS DATE: 09/22/95 DATA FILE NO.:9504B32A.D

COMPOUND	CONC (PPB)	I COMPOUND	CONC (PPB)
Vinyl Chloride Bromomethane Chloroethane	ND ND ND	4 - Chlorotoluene 1,3 - Dichlorobenzene 1,4 - Dichlorobenzene	
Trichlorofluoromethane	ND	1 1,2 - Dichlorobenzene	
Acetone	ND	1 1,2,4 - Trichlorobens	zene ND
1,1-Dichloroethene	ND	1 1,2,3 - Trichlorobenz	ene ND
Carbon disulfide	ND	1	
Methylene Chloride	ND		
trans-1,2-Dichloroethene	ND	1 NON-TARGET COMPO	JUNDS
1,1-Dichloroethane	ND		
Vinyl Acetate	ND	1	
2-Butanone	ND		
cis-1,2-Dichloroethene	ND	1	
Chloroform	1 J	1	
1,1,1-Trichloroethane	ND	1	
Carbontetrachloride	ND	I	
1,2-Dichloroethane	ND	1	
Benzene	ND		
Trichloroethene	ND		
1,2-Dichloropropane	ND		
Bromodichloromethane	ND		
4-Methyl-2 Pentanone	ND	1	
cis-1,3-Dichloropropene	ND	1	
Toluene	ND	1	
trans-1,3-Dichloropropene	ND		
1,1,2-Trichloroethane	ND	1	
2-Hexanone	ND	1	
Tetrachloroethene	ND		
Dibromochloromethane	ND	1	
Chlorobenzene	ND	1	
Ethylbenzene	ND	!	
M,P-Xylene	ND	1	
O-Xylene	ND	ND = LESS THAN 5	PPB
Styrene Bromoform	ND	1	
1122Tetrachloroethane	ND	ALL CONCENTRATIONS L	
	ND	5 PPB ARE ESTIMAT	ES
2-Chlorotoluene	ND	1	

SITE NAME: SARATOGA TREE	E N	URSERY		FIELD ID: STN - MW - 2S
SAMPLE NUMBER: 595-264-	01			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
	Q	UANT (ug/L	- - ·	DETECTION LIMIT:
ALPHA-BHC	1	ND	 I	PESTICIDES - CROL
BETA-BHC	1	ND	1	AROCLORS - CRDL
DELTA-BHC	1	ND	ī	DILUTION FACTOR ~ 1
GAMMA-BHC	1	ND	1	
HEPTACHLOR		ND	Ι.	
ALDRIN	1		1	
HEPTACHLOR EPOXIDE	1	- ND	1	AROCLOR QUANT (ug/L)
ENDOSULFAN I	1	ND	1	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
4,4'-DDE	1	ND	1	1232 I NA
ENDRIN	•	ND		1242 I NA
ENDOSULFAN II	t		1	1248 I NA
4,4'-DDD + 2,4'-DDD				1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT		ND	1	
ENDRIN ALDEHYDE	i	ND	1	
ENDRIN KETONE	- - -	ND	1	
METHOXYCHLOR	 I	ND	1	
CHLORDANE (ALPHA/GAMMA)	 I	ND/ND	1	
TOXAPHENE	- <i></i>	NA NA	1	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-3S

SITE CODE: NA PERCENT SOLIDS: NA

SAMPLE NUMBER:595-244-02 MATRIX: MATER

SUBMISSION DATE: 09/21/95 ARCHIVE NO.: U26402

ANALYSIS DATE: 09/26/95 DATA FILE NO.:9504838A.D

СОМРОИМО	CONC (PP8)	I COMPOUND	CUNC (PPB)
Vinyl Chloride	ND	i 4 - Chlorotoluene	ND
Sromomethane	ND	1 1,3 - Dichlorobenzene	ND
Chloroethane	ND	I 1,4 - Dichlorobenzene	ND
Trichlorofluoromethane	ND	1 1,2 - Dichlorobenzene	ND
Acetone	ND	1 1,2,4 - Trichlorobenze	ene ND
1,1-Dichloroethene	ND	1 1,2,3 - Trichlorobenze	
Carbon disulfide	ND	1	
Methylene Chloride	ND	1	
trans-1,2-Dichloroethene	ND	I NON-TARGET COMPO	JNDS
1,1-Dichloroethane	ND		
Vinyl Acetate	ND	1	
2-Butanone	ND	1	
cis-1,2-Dichloroethene	ND	1	
Chloroform	ND	1	
1,1,1-Trichloroethane	ND	I	
Carbontetrachloride	ND	T	
1,2-Dichloroethane	ND	1	
Benzene	ND	1	
Trichloroethene	ND	1	
1,2-Dichloropropane	ND	1	
Bromodichloromethane	ND	I	
4-Methyl-2 Pentanone	ND	1	
cis-1,3-Dichloropropene	ND	1	
Toluene	ND	1	
trans-1,3-Dichloropropene	ND	1	
1,1,2-Trichloroethane	ND	1	
2-Hexanone	ND	1	
Tetrachloroethene	ND	1	
Dibromochloromethane	ND	†	
Chlarobenzene	ND	1	
Ethylbenzene	ND	1	
M,P-Xylene	ND	1	
O-Xylene	ND	ND = LESS THAN 5 F	PPB
Styrene	ND	1	
Bromoform	ND	I ALL CONCENTRATIONS LE	ESS THAN
1122Tetrachloroethane	ND	I 5 PPB ARE ESTIMATE	ES
2-Chlorotoluene	ND	Ţ	

SITE NAME: SARATOGA TRE	E NI	JRSERY		FIELD ID: STN - MW - 3S
SAMPLE NUMBER: 595-264-				EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
PESTICIDE		 √gu) TMAU	-	DETECTION LIMIT:
ALPHA-BHC	1	ND	 I	PESTICIDES - CRDL
		ND		AROCLORS - CRDL
	1.	ND	1	DILUTION FACTOR - 1
GAMMA-BHC		ND	 I	
	· 	ND		
ALDRIN	 I	ND		
HEPTACHLOR EPOXIDE	 I	ND		AROCLOR QUANT (ug/L)
- ·- ·- ·- · · ·		ND	!	1016 NA
DIELDRIN	ŀ		 I	1221 I NA
	1	ND		1232 I NA
ENDRIN	1	ND	 I	1242 I NA
ENDOSULFAN II	I	ND .	!	1248 I NA
4,4'-DDD + 2,4'-DDD				
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	ND	1	
ENDRIN ALDEHYDE	1	ND		
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	ı	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	
TOXAPHENE	 	NA NA	1	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-4S

SITE CODE:NA PERCENT SOLIDS:NA

SAMPLE NUMBER:595-263-07 MATRIX:WATER

SUBMISSION DATE: 09/20/95 ARCHIVE NO.: U26307

ANALYSIS DATE: 09/27/95 DATA FILE NO.:9504B52A.D

COMPOUND	CONC (PPB)	I COMPOUND CONC (PPB)
Vinyl Chloride Bromomethane	ND ND	4 - Chlorotoluene ND 1,3 - Dichlorobenzene ND
Chloroethane	ND	I 1,4 - Dichlorobenzene ND
Trichlorofluoromethane	ND	1 1,2 - Dichlorobenzene ND
Acetone	ND	1 1,2,4 - Trichlorobenzene ND
1,1-Dichloroethene	ND	1 1,2,3 - Trichlarobenzene ND
Carbon disulfide	· ND	1
Methylene Chloride	ND	
trans-1,2-Dichloroethene	ND	NON-TARGET COMPOUNDS
1,1-Dichloroethane	ND	
Vinyl Acetate	ND	I VARIOUS HYDROCARBON COMPOUNDS ARE
2-Butanone	ND	I PRESENT. CONCENTRATIONS WERE NOT
cis-1,2-Dichloroethene	ND	I DETERMINED.
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbontetrachloride	ND	1
1,2-Dichloroethane	ND	1
Benzene	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
Bromodichloromethane	ND	1
4-Methyl-2 Pentanone	ND	1
cis-1,3-Dichloropropene	ND	1
Toluene	ND	1
trans-1,3-Dichloropropene	ND	1
1,1,2-Trichloroethane	ND	1
2-Hexanone	ND	1
Tetrachloroethene	ND	1
Dibromochloromethane	ND	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
M,P-Xylene	ND	1
O-Xylene	ND	ND = LESS THAN 5 PPB
Styrene	ND	1
Bromoform	ND	I ALL CONCENTRATIONS LESS THAN
1122Tetrachlorgethane	ND	5 PPB ARE ESTIMATES
2-Chlorotoluene	ND	1

SITE NAME: SARATOGA TRE	E N	URSERY		FIELD ID: STN - MW - 4S
SAMPLE NUMBER: 595-263-				EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
PESTICIDE	Q	UANT (ug	/L)	DETECTION LIMIT:
ALPHA-BHC	1	ND	<u>-</u>	PESTICIDES - CRDL
BETA-BHC	I	ND	1	AROCLORS - CROL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 100
GAMMA-BHC	 I	ND	1	
HEPTACHLOR	1	ND	ı	
ALDRIN	 I	ND	1	
HEPTACHLOR EPOXIDE	1	ND	1	AROCLOR QUANT (ug/L)
ENDOSULFAN I	1	ND		1016 NA
DIELDRIN	1	ND	1	1221 I NA
	1	ND	1	1232 I NA
	I	ND	1	1242 I NA
	1	ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD			1	1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	0.44	1	
ENDRIN ALDEHYDE	 I	ND	I	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	ı	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	 I	
TOXAPHENE		NA		ı

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-4D

SITE CODE:NA

PERCENT SOLIDS: NA

SAMPLE NUMBER: 595-263-06 MATRIX: WATER

SUBMISSION DATE: 09/20/95 ARCHIVE NO.: V26306

ANALYSIS DATE: 09/27/95 DATA FILE NO.:9504B50A.D

COMPOUND	CONC (PPB)	I COMPOUND CONC (PPB)
Vinyl Chloride	ND	I 4 - Chlorotoluene ND
Bromomethane	ND	I 1,3 - Dichlorobenzene ND
Chloroethane	ND	l 1,4 - Dichlorobenzene ND
Trichlorofluoromethane	ND	l 1,2 - Dichlorobenzene ND
Acetone	ND	l 1,2,4 - Trichlorobenzene ND
1,1-Dichloroethene	ND	I 1,2,3 - Trichlorobenzene ND
Carbon disulfide	ND	
Methylene Chloride	ND	
trans-1,2-Dichloroethene	ND	I NON-TARGET COMPOUNDS
1,1-Dichloroethane	ND	
Vinyl Acetate	ND	I VARIOUS HYDROCARBON COMPOUNDS AND
2-Butanone	ND	I AROMATIC COMPOUNDS ARE PRESENT.
cis-1,2-Dichloroethene	ND	I CONCENTRATIONS WERE NOT DETERMINED.
Chloroform	ND	1
1,1,1-Trichloroethane	ND	1
Carbontetrachloride	ND	1
1,2-Dichloroethane	ND	
Benzene	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	
Bromodichloromethane	ND	1
4-Methyl-2 Pentanone	ND	
cis-1,3-Dichloropropene	ND	1
Toluene	ND	
trans-1,3-Dichloropropene		1
1,1,2-Trichloroethane	ND	
2-Hexanone	ND	1
Tetrachloroethene	ND F	1
Dibromochloromethane	ND	1
Chlorobenzene	ND	1
Ethylbenzene	ND	1
M,P-Xylene	ND	1.)
O-Xylene	ND	ND = LESS THAN 5 PPB
Styrene	ND	
Bromoform	ND	1 ALL CONCENTRATIONS LESS THAN
1122Tetrachloroethane	ND	1 5 PPB ARE ESTIMATES
2-Chlorotoluene	ND	1

SITE NAME: SARATOGA TRE	ΕN	URSERY		FIELD ID: STN - MW - 4D
SAMPLE NUMBER: 595-263-	06 			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
PESTICIDE	 Q	UANT (ug	/L)	DETECTION LIMIT: -
ALPHA-BHC	ı	ND		PESTICIDES - CROL
BETA-BHC	1	ND	1	AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 10
GAMMA-BHC	1	ND	1	
HEPTACHLOR	1	ND	1	
ALDRIN	1	ND	1	
HEPTACHLOR EPOXIDE .	1	ND		AROCLOR QUANT (ug/L)
ENDOSULFAN I	1	ND	1	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
4,4'-DDE	1	ND	1	1232 I NA
ENDRIN	1	ND	1	1242 I NA
ENDOSULFAN II	1	ND		1248 I NA
4,4'-DDD + 2,4'-DDD	!	ND	1	1254 NA
ENDOSULFAN SULFATE	1	ND		1260 I NA
4,4'-DDT	1	0.01	1	
ENDRIN ALDEHYDE	1	ND	I	
ENDRIN KETONE	1	ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	
TOXAPHENE	1	NA	·	ı

SITE NAME: SARATOGA TREE NURSERY

FIELD ID: MW - 4S % SOLID: NA

SAMPLE NUMBER: 595-311-04 MATRIX: GROUNDWATER

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	1 DN	
2-Chlorophenol	ND I	
Bis(2-Chloroethyl)Ether	ND I	
1 3-Dichlorobenzene	ND I	
1 4-Dichlorobenzene	ND I	
1 2-Dichlorobenzene	ND I	
Benzyl Alcohol	ND I	
2-Methylphenol	ND I	
bis(2-chloroisopropyl)E	ther ND I	
Hexachloroethane	ND 1	
4-Methylphenol	ND 1	
N-Nitroso-di-propylamine	e ND I	Dimethyl naphthalene(s) - 220 ug/L
Nitrobenzene	ND 1	- · · · · · · · · · · · · · · · · · · ·
Isophorone	ND I	
2-Nitrophenol	ND 1	Alkyl subst. naphthalene(s) - 260
2 4-Dimethylphenol	ND I	Alkyl subst. azulene - 150
bis(2-chloroethoxy)Metha	ane ND 1	Methyl subst. fluorene – 100
2 4-Dichlorophenol	ND I	Alkyl subst. biphenyl - 20
1 2 4-Trichlorobenzene	ND 1	Alkyl subst. hexadecane - 36
Naphthalene	ND I	Dimethyl subst. fluorene – 47
Benzoic acıd	ND 1	,
4-Chloroaniline	ND I	- · · · · - · · · - · · · - · · · · - ·
Hexachlorobutadiene	ND I	
4-Chloro-3-Methylphenol	ND I	
2-Methylnaphthalene	ND I	·
Hexachlorocyclopentadier		
2,4,6-Trichlorophenol	ND I	
2,4,5-trichlorophenol	ND I	
2-Chloronaphthalene	ND I	
2-Nitroaniline	ND I	
Acenaphthylene	ND I	
Dimethyl Phthalate	ND I	
2,6-Dinitrotoluene	ND I	
Acenaphthene 3-Nitroaniline	ND I	
2,4-Dinitrophenol	ND I	
Dibenzofuran	ND I ND I	
4-Nitrophenol	ND I ND I	
a arrei obiieilo i	ו טא	1

COMPOUND	CONC(ug/L)	1
2,4-Dinitrotoluene	ND	- -
Fluorene	ND	i
4-Chlorophenyl-phenyleti		į
Diethylphthalate	ND	
2 Methyl 4,6-Dinitropher	nol ND	İ
N-Nitrosodiphenylamine	ND	ı
4-Nitroaniline	ND	Ι
4-Bromophenyl-phenyleth	er ND	1
Hexachlorobenzene	ND	1
Pentachlorophenol	DИ	1
Phenanthrene	48	1
Anthracene	ND	1
Di-N-Butylphthalate	- ND	1
Carbazole	ND	1
Fluoranthene	ND	1
Pyrene .	ND	ı
4,4'-DDD	ДN	1
Butylbenzylphthalate	ND	1
Chrysene	ND	1
Benzo (a) Anthracene	, ND	1
bis(2-Ethylhexyl)Phthala	ate ND	1
Di-N-Octyl Phthalate	ND	1
Benzo(b/k)Fluoranthene	ND	1
Benzo(a)Pyrene	ND	!
Indeno(1,2,3-cd)Pyrene	DM	1
Dibenz(a,h)Anthracene	DM	1
Benzo(g,h,i)Perylene	П	1

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-5S

SITE CODE:NA PERCENT SOLIDS:NA

SAMPLE NUMBER:595-264-03 MATRIX:WATER

SUBMISSION DATE: 09/21/95 ARCHIVE NO.: U26403

ANALYSIS DATE: 09/26/95 DATA FILE NO.:9504B39A.D

COMPOUND	CONC (PPB)	COMPOUND	CONC (PPB)
Vinyl Chloride	ND	1 4 - Chlorotoluene	ND
Bromomethane	ND	I 1,3 - Dichlorobenzen	e ND
Chloroethane	ND	1 1,4 - Dichlorobenzen	e ND
Trichlorofluoromethane	ND	I 1,2 - Dichlorobenzene	e ND
Acetone	ND	1 1,2,4 - Trichloroben:	
1,1-Dichloroethene	ND	1 1,2,3 - Trichloroben:	zene ND
Carbon disulfide	ND	1	
Methylene Chloride	ND		
trans-1,2-Dichloroethene	ND	I NON-TARGET COMP	DUNDS
1,1-Dichloroethane	ND	1	
Vinyl Acetate	ND	1	
2-Butanone	ND		
cis-1,2-Dichloroethene	ND	1	
Chloroform	ND	1	
1,1,1-Trichloroethane	ND	1	
Carbontetrachloride	ND	· ·	
1,2-Dichloroethane	ND	1	
Benzen e	ND	1	
Trichloroethene	ND	1	
1,2-Dichloropropane	MD	1	
Bromodichloromethane	ND	1	
4-Methyl-2 Pentanone	ND	1	
cis-1,3-Dichloropropene	ND	1	
Toluene	ND	1	
trans-1,3-Dichloropropene	ND	1	
1,1,2-Trichloroethane	ND	1	
2-Hexanone	ND	T.	
Tetrachloroethene	ND	1	
Dibromochloromethane	ND	1	
Chlorobenzene	ND	1	
Ethylbenzene	ND	1	
M,P-Xylene	ND	1	
O-Xylene	ND	I ND = LESS THAN 5	PPB
Styrene	ND	1	
Bromoform	ND	I ALL CONCENTRATIONS	LESS THAN
1122Tetrachloroethane	ND	1 5 PPB ARE ESTIMA	TES
2-Chlorotoluene	ND	1	

SAMPLE NUMBER: 595-264-03 EXTRACTION METHOD: SPE MATRIX: GROUNDWATER % SOLID: NA	
MATRIX: GROUNDWATER % SOLID: NA	
PESTICIDE QUANT (ug/L) DETECTION LIMIT:	
ALPHA-BHC I ND I PESTICIDES - CRDL	
BETA-BHC I ND I AROCLORS - CRDL	
DELTA-BHC ND DILUTION FACTOR - 1	
GAMMA-BHC I ND I	
HEPTACHLOR I ND I	
ALDRIN I ND I	
HEPTACHLOR EPOXIDE ND AROCLOR QUANT (ug/L	_)
ENDOSULFAN I I ND I 1016 I NA	
DIELDRIN I ND I 1221 I NA	
4,4'-DDE ND 1232 NA	
ENDRIN I ND I 1242 I NA	
ENDOSULFAN II I ND I 1248 I NA	
4,4'-DDD + 2,4'-DDD ND 1254 NA	
ENDOSULFAN SULFATE ND 1260 NA	
4,4'-DDT ND	
ENDRIN ALDEHYDE I ND I	
ENDRIN KETONE 1 ND 1	
METHOXYCHLOR METHOXYCHLOR	
CHLORDANE (ALPHA/GAMMA) ND/ND	
TOXAPHENE I NA I	

SITE NAME: SARATOGA TREE NURSERY

FIELD ID: MW - 4D % SOLID: NA

SAMPLE NUMBER: 595-311-05 MATRIX: GROUNDWATER

	CONC (ug/L)	
Pheno l	, LELLLELELEL	
2-Chlorophenol	ND I	Detection limit - CRDL
Bis(2-Chloroethy1)Ether	ND 1	
1 3-Dichlorobenzene	ND I	
1 4-Dichlorobenzene	ND 1	
1 2-Dichlorobenzene	ND I	
Benzyl Alcohol	ND I	
2-Methylphenol	ND 1	
bis(2-chloroisopropyl)Et	her ND I	
Hexachloroethane	ND 1	TIC -
4-Methylphenol	ND I	
N-Nitroso-di-propylamine	ND I	Ethyl naphthalene - 6.3 ug/L
Nitrobenzene	ND 1	
Isophorone	ND I	
2-Nitrophenol	ND I	· · · · · · · · · · · · · · · · · · ·
2 4-Dimethylphenol	ND 1	
bis(2-chloroethoxy)Metha	ine ND I	•
2 4-Dichlorophenol	ND I	
1 2 4-Trichlorobenzene	ND I	
Naphthalene	ND I	
Benzoic acid	ND I	
4-Chloroaniline	ND I	
Hexachlorobutadiene	ND I	
4-Chloro-3-Methylphenol	ND I	
2-Methylnaphthalene	フ I	
Hexachlorocyclopentadien	ie ND I	
2,4,6-Trichlorophenol	ND 1	
2,4,5-trichlorophenol	ND I	
2-Chloronaphthalene	ND 1	
2-Nitroaniline	ND I	
Acenaphthylene	ND 1	
Dimethyl Phthalate	ND I	
2,6-Dinitrotoluene	ND I	
Acenaphthene	5 I	
3-Nitroaniline	ND 1	
2,4-Dinitrophenol	ND I	
Dibenzofuran	ND 1	
4-Nitrophenol	ND 1	1

COMPOUND	CONC(ug/L)	1
2,4-Dinitrotoluene	ND	- 1 - 1
Fluorene	10	ł
4-Chlorophenyl-phenylet	her ND	-
Diethylphthalate	ND	1
2 Methyl 4,6-Dinitrophe	nol ND	1
N-Nitrosodiphenylamine	ND	1
4-Nitroaniline	ND	1
4-Bromophenyl-phenyleth	er ND	1
Hexachlorobenzene	ND	1
Pentachlorophenol	ND	1
Phenanthrene	5.7	I
Anthracene	ND	1
Di-N-Butylphthalate	ND	1
Carbazole	ND	1
Fluoranthene	ND	-
Pyrene .	ND	1
4,4'-DDD	ND	
Butylbenzylphthalate	ND	1
Chrysene	ND	-1
Benzo (a) Anthracene	ND	1
bis(2-Ethylhexyl)Phthala	ate ND	ı
Di-N-Octyl Phthalate	ND	1
Benzo(b/k)Fluoranthene	ND	-
Benzo(a)Pyrene	ND	1
Indeno(1,2,3-cd)Pyrene	ND	1
Dibenz(a,h)Anthracene	ND	ı
Benzo(g,h,i)Perylene	ND	

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-5D

SITE CODE:NA PERCENT SOLIDS:NA

SAMPLE NUMBER: 595-263-08 MATRIX: WATER

SUBMISSION DATE: 09/20/95 ARCHIVE NO.: V26308

ANALYSIS DATE: 09/22/95 DATA FILE NO.:9504B31A.D

COMPOUND	CONC (PPB)	l	COMPOUND	CONC (PPB)
Vinyl Chloride	ND		4 - Chlorotoluene	ND
Bromomethane	ND	1	1,3 - Dichlorobenzen	e ND
Chloroethane	ND	1	1,4 - Dichlorobenzen	e ND
Trichlorofluoromethane	ND	1	1,2 - Dichlorobenzen	e ND
Acetone	ND	ı	1,2,4 - Trichloroben	
1,1-Dichloroethene	ND	1	1,2,3 - Trichloroben	
Carbon disulfide	ND	- 1	•	
Methylene Chloride	ND	1 -		
trans-1,2-Dichloroethene	ND	ì	NON-TARGET COMP	OUNDS
1,1-Dichloroethane	ND	1 -		
Vinyl Acetate	ND	. 4		
2-Butanone	ND	- 1		
cis-1,2-Dichloroethene	ND	ł		
Chloroform	ND	1		
1,1,1-Trichloroethane	ND	- [
Carbontetrachloride	ND	1		
1,2-Dichloroethane	ND	1		
Benzene	ND	- 1		
Trichloroethene	ND	1		
1;2-Dichloropropane	ND	1		
Bromodichloromethane	ND	1		
4-Methyl-2 Pentanone	ND	1		
cis-1,3-Dichloropropene	ND	- 1		
Toluene	ND	- 1		
trans-1,3-Dichloropropene	ND	ļ		
1,1,2-Trichloroethane	ND	1		
2-Hexanone	ND	- 1		
Tetrachloroethene	ND	1		
Dibromochloromethane	· ND	- 1		
Chlorobenzene	ND	j		
Ethylbenzene	ND	1		
M,P-Xylene	ND	- 1	1	
O-Xylene	ND	1	ND = LESS THAN 5	PPB
Styrene	ND	1		· · · -
Bromoform	ND	1	ALL CONCENTRATIONS	LESS THAN
1122Tetrachloroethane	ND	1	5 PPB ARE ESTIMA	
2-Chlorotoluene	ND	-1		

SITE NAME: SARATOGA TRE	Ξ N	URSERY		FIELD ID: STN - MW - 5D
SAMPLE NUMBER: 595-263-	08			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
PESTICIDE	 ເລ	UANT (ug/		DETECTION LIMIT:
ALPHA-BHC	1	ND	- <i>-</i> -	PESTICIDES - CROL
BETA-BHC	1	ND		AROCLORS - CRDL
DELTA-BHC		ND	- - -	DILUTION FACTOR - 1
	ı	ND	1	
	1	ND	 1	
ALDRIN		ND	 I	
HEPTACHLOR EPOXIDE	- - -	ND	 I	AROCLOR QUANT (ug/L)
		ND	<u>-</u>	1016 NA
DIELDRIN		ND		1221 I NA
		ND	1	1232 I NA
ENDRIN	1	ND	1	1242 I NA
	1	ND		1248 I NA
		ND	1	1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 I NA
4,4'-DDT	1	ND	-	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE		ND	1	
METHOXYCHLOR	1	ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	

TOXAPHENE I NA I

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-6S

SITE CODE:NA PERCENT SOLIDS:NA

SAMPLE NUMBER:595-264-04 MATRIX:WATER

SUBMISSION DATE: 09/21/95 ARCHIVE NO.: U26404

ANALYSIS DATE: 09/26/95 DATA FILE NO.:9504B40A.D

COMPOUND	CONC (PPB)	I COMPOUND	CONC (PPB)
Vinyl Chloride Bromomethane Chloroethane	ND ND ND	 4 - Chlorotoluene 1,3 - Dichlorobenzene 1,4 - Dichlorobenzene 	e ND
Trichlorofluoromethane Acetone	ND ND	1,2 - Dichlorobenzens1,2,4 - Trichlorobenz	zene ND
1,1-Dichloroethene Carbon disulfide	ND ND	1 1,2,3 - Trichlorobenz	zene ND
Methylene Chloride trans-1,2-Dichloroethene	ND ND	I NON-TARGET COMPO	TUNDS
1,1-Dichloroethane Vinyl Acetate	ND ND	1	
2-Butanone cis-1,2-Dichloroethene	ND ND	1	
Chloroform 1,1,1-Trichloroethane	28 ND		
Carbontetrachloride 1,2-Dichloroethane	ND ND		
Benzene Trichloroethene	ND	1	
1,2-Dichloropropane	ND ND	1	
Bromodichloromethane 4-Methyl-2 Pentanone	ND ND	1	
cis-1,3-Dichloropropene Toluene	ND ND	1	
trans-1,3-Dichloropropene 1,1,2-Trichloroethane	ND ND	1	
2-Hexanone Tetrachloroethene	ND ND	1	
Dibromochloromethane Chlorobenzene	ND ND	1	
Ethylbenzene M,P-Xylene	ND ND	1	
O-Xylene Styrene	ND ND	ND = LESS THAN 5	PPB
Bromoform 1122Tetrachloroethane	ND	ALL CONCENTRATIONS L	
2-Chlorotoluene	ND ND	F PPB ARE ESTIMAT	£5

SITE NAME: SARATOGA TREE	E 1	NURSERY		FIELD ID: STN - MW - 6S
SAMPLE NUMBER: 595-264-1	04			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER		_		% SOLID: NA
PESTICIDE		QUANT (ug/L)	DETECTION LIMIT:
ALPHA-BHC		ND	1	PESTICIDES - CRDL
BETA-BHC	1	ND	1	AROCLORS - CRDL
DELTA-BHC	1	ND	1	DILUTION FACTOR - 1
GAMMA-BHC	1	ND	,	
HEPTACHLOR	•	ND	1	
ALDRIN	1	ND	1	
		ND	1	AROCLOR QUANT (ug/L)
ENDOSULFAN I	1	ND	1	1016 I NA
DIELDRIN	1	ND	1	1221 I NA
4,4'-DDE	1	ND	1	1232 I NA
ENDRIN	1	ND	1	1242 I NA
		ND	1	1248 I NA
4,4'-DDD + 2,4'-DDD		0.92	I 	1254 I NA
ENDOSULFAN SULFATE	1	ND	1	1260 NA
4,4'-DDT	1	0.06	1	
ENDRIN ALDEHYDE	1	ND	!	•
ENDRIN KETONE	1	ND	1	•
METHOXYCHLOR		· ND	1	•
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	
TOXAPHENE	 	NA		- ,

SITE NAME: SARATOGA TREE NURSERY

FIELD ID: MW - 6 % SOLID: NA

SAMPLE NUMBER: 595-311-02 MATRIX: GROUNDWATER

COMPOUND	CONC (ug/L) TIC AND COMMENT SECTION
Phenol		D 1
2-Chlorophenol	N	D Detection limit - CRDL
Bis(2-Chloroethyl)Ether	N	D I
1 3-Dichlorobenzene	N	D I
1 4-Dichlorobenzene	N	D 1
1 2-Dichlorobenzene	N	D I
Benzyl Alcohol	N	DI
2-Methylphenol	N	D I
bis(2-chloroisopropy1)E	ther N	DI
Hexachloroethane		D I TIC -
4-Methylphenol	N	D I
N-Nitroso-di-propylamin	e N	D 1,1'-sulfonylbis[4-chloro]
Nitrobenzene	И	D benzene - 11 ug/L (Fenticlor)
Isophorone	N	DI
2-Nitrophenol	N	DI
2 4-Dimethylphenol	N	D (
bis(2-chloroethoxy)Meth	ane N	D I
2 4-Dichlorophenol	N	D I
1 2 4-Trichlorobenzene	N	D I
Naphthalene	N	D 1
Benzoic acid	И	D I
4-Chloroaniline	N	D 1
Hexachlorobutadiene	N	DI
4-Chloro-3-Methylphenol		D I
?-Methylnaphthalene		D I
exachlorocyclopentadie	ne N	D I
,4,6-Trichlorophenol		D I
4,5-trichlorophenol		DI
Chloronaphthalene		D I
Nitroaniline		DI
naphthylene		D I
athyl Phthalate		DI
Dinitrotoluene		D I
aphthene		D I
roaniline		D 1
initrophenol		D I
zofuran	N	
rophenol	N	D 1 ,

СОМРОИНО	CONC(ug/L)	1
2,4-Dinitrotoluene	ND	1
Fluorene	ND	ł
4-Chlorophenyl-phenyleth	er ND	i
Diethylphthalate	ND	1
2 Methyl 4,6-Dinitrophen	ON 1 o	1
N-Nitrosodiphenylamine	ND	1
4-Nitroaniline	ИD	1
4-Bromophenyl-phenylethe	r ND	1
Hexachlorobenzene	П	ì
Pentachlorophenol	ND	1
Phenanthrene	ND	1
Anthracene	МD	1
Di-N-Butylphthalate	ND	1
Carbazole	ПU	ļ
Fluoranthene	ND	1
Pyrene .	ND	1
4,4'-DDD	ND	1
Butylbenzylphthalate	ND	1
Chrysene	ИD	1
Benzo (a) Anthracene	ND	1
bis(2-Ethylhexyl)Phthala	te ND	1
Di-N-Octyl Phthalate	ND	1
Benzo(b/k)Fluoranthene	ND	1
Benzo(a)Pyrene	ND	1
Indeno(1,2,3-cd)Pyrene	ND	ŧ
Dibenz(a,h)Anthracene	ND	1
Benzo(g,h,i)Perylene	ND	ŧ

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-7S

SITE CODE:NA

PERCENT SOLIDS:NA

SAMPLE NUMBER:595-264-05 MATRIX:WATER

SUBMISSION DATE: 09/21/95 ARCHIVE NO.: V26405

ANALYSIS DATE: 09/26/95 DATA FILE NO.:9504B41A.D

COMPOUND	CONC (PPB)	COMPOUND CONC (PPB)
Vinyl Chloride	ND	4 - Chlorotoluene ND
Bromomethane	ND	I 1,3 - Dichlorobenzene ND
Chloroethane	ND	I 1,4 - Dichlorobenzene ND
Trichlorofluoromethane	ND	I 1,2 - Dichlorobenzene ND
Acetone	ND	1 1,2,4 - Trichlorobenzene ND
1,1-Dichloroethene	ND	1 1,2,3 - Trichlorobenzene ND
Carbon disulfide	ND	
Methylene Chloride	ND	
trans-1,2-Dichloroethene	ND	NON-TARGET COMPOUNDS
1,1-Dichloroethane	ND	
Vinyl Acetate	ND	1
2-Butanone	ND	1
cis-1,2-Dichloroethene	ND	1
Chloroform	4 J	1
1,1,1-Trichloroethane	ND	1
Carbontetrachloride	ND	1
1,2-Dichloroethane	ND	1
Benzene	ND	1
Trichloroethene	ND	1
1,2-Dichloropropane	ND	1
3romodichloromethane	ND	1
-Methyl-2 Pentanone	ND	1
is-1,3-Dichloropropene	ND .	1
luene	ND	1
ans-1,3-Dichloropropene	ND	1
l,2-Trichloroethane	ND	1
exanone	ND	1
achloroethene	ND	1
omochloromethane	ND	1
robenzene	ND	1
ilbenzene	ND	1
Xylene	ND	1 ,
lene	ND	I ND = LESS THAN 5 PPB
ne	ND	I
form	ND	I ALL CONCENTRATIONS LESS THAN
etrachloroethane	ND	1 5 PPB ARE ESTIMATES
protoluene	ND	1

SITE NAME: SARATORA TRE	E N	HPSERY	FIELD ID: STN - MW - 7S
SITE NAME: SARATUGA TRE			7 TEED TO: 3111 - 11w 73
SAMPLE NUMBER: 595-264-			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER			% SOLID: NA
PESTICIDE	 Q	UANT (ug/L	DETECTION LIMIT:
ALPHA-BHC		ND	 PESTICIDÉS - CROL
BETA-BHC		ND	 I AROCLORS - CRDL
DELTA-BHC		ND	
GAMMA-BHC	 1	ND	- <i>-</i> -
HEPTACHLOR		ND	- -
		ND	
HEPTACHLOR EPOXIDE			AROCLOR QUANT (ug/L)
ENDOSULFAN I			1 1016 NA
	1	ND	I 1221 I NA
,	1	ND	1 1232 I NA
ENDRIN			
4,4'-DDD + 2,4'-DDD		ND	I 1254 I NA
ENDOSULFAN SULFATE	1	ND	1 1260 I NA
4,4'-DDT	1	0.002	
ENDRIN ALDEHYDE	1	ND	ī d
ENDRIN KETONE	1	0.02	1
METHOXYCHLOR	1	ND	1
CHLORDANE (ALPHA/GAMMA)		DVND	1

SITE NAME: SARATOGA TREE NURSERY

FIELD ID: MW - 7 % SOLID: NA

SAMPLE NUMBER: 595-311-03 MATRIX: GROUNDWATER

COMPOUND C	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	-1	
2-Chlorophenol	ND I	Detection limit - CRDL
Bis(2-Chloroethy1)Ether	ND I	
1 3-Dichlorobenzene	I DN	
1 4-Dichlorobenzene	I GM	
1 2-Dichlorobenzene	I DN	
Benzyl Alcohol `	ND I	
2-Methylphenol	ND I	
bis(2-chloroisopropyl)Eth	er ND 1	
Hexachloroethane	ND I	TIC - No TICs reported
4-Methylphenol	ND 1	
N-Nitroso-di-propylamine	ND I	
Nitrobenzene	ND 1	
Isophorone	ND I	
2-Nitrophenol	ND I	
2 4-Dimethylphenol	I ON	
bis(2-chloroethoxy)Methar	ie ND I	
2 4-Dichlorophenol	ND I	
1 2 4-Trichlorobenzene	ND I	
Naphthalene	ND I	
Benzoic acid	ND I	
4-Chloroaniline	ND I	
Hexachlorobutadiene	ND I	
4-Chloro-3-Methylphenol	ND I	
2-Methylnaphthalene	ND I	
Hexachlorocyclopentadiene	I DN	
2,4,6-Trichlorophenol	ND 1	
2,4,5-trichlorophenol	ND I	
2-Chloronaphthalene	ND 1	
2-Nitroaniline	ND 1	
Acenaphthylene	ND I	
Dimethyl Phthalate	ND 1	
2,6-Dinitrotoluene	ND I	
Acenaphthene	ND I	
3-Nitroaniline	ND I	
2,4-Dinitrophenol	ND I	
Dibenzofuran	ND I	
4-Nitrophenol	ND I	

COMPOUND	CONC(ug/L)	1
2,4-Dinitrotoluene	ND	
Fĺuorene	ND	1
4-Chlorophenyl-phenyle	ther ND	1
Diethylphthalate	ND	1
2 Methyl 4,6-Dinitroph	enol ND	1
N-Nitrosodiphenylamine	ND	1
4-Nitroaniline	СИ	1
4-Bromophenyl-phenylet	her ND	1
Hexachlorobenzene	ND	}
Pentachlorophenol	OM	1
Phenanthrene	ND	1 .
Anthracene	ND	
Di-N-Butylphthalate	ND	1
Carbazole	ND	1
Fluoranthene	ND	1
Pyrene	ND	1
4,4'-DDD	ND	1
Butylbenzylphthalate	ND	1
Chrysene	ND	1
Benzo (a) Anthracene	ND	1
bis(2-Ethylhexyl)Phtha	late ND	1
Di-N-Octyl Phthalate	ND	1
Benzo(b/k)Fluoranthene	ПN	1
Benzo(a)Pyrene	ND	1
Indeno(1,2,3-cd)Pyrene	ИD	1
Dibenz(a,h)Anthracene	СИ	1
Benzo(g,h,ı)Perylene	МD	!

SITE NAME: SARATOGA TREE NURSERY

FIELD ID:STN-MW-85

SITE CODE:NA

PERCENT SOLIDS:NA

SAMPLE NUMBER: 595-264-06 MATRIX: WATER

SUBMISSION DATE: 09/21/95

ARCHIVE NO.: U26486

ANALYSIS DATE: 09/26/95

DATA FILE NO.:9504B42A.D

HNHL1313 DHTE: 07/26/79		DATA FILE NO. 17904042A.D		
COMPOUND	CONC (PPB)	I COMPOUND CONC (PPB)		
Vinyl Chloride	ND	I 4 - Chlorotoluene ND		
Bromomethane	ND	l 1,3 - Dichlorobenzene ND		
Chloroethane	ND	l 1,4 - Dichlorobenzene ND		
Trichlorofluoromethane	· ND	l 1,2 - Dichlorobenzene ND		
Acetone	ND	1 1,2,4 - Trichlorobenzene ND		
1,1-Dichloroethene	ND	l 1,2,3 - Trichlorobenzene ND		
Cárbon disulfide	ND	1		
Methylene Chloride	ND			
trans-1,2-Dichloroethene	ND ·	I NON-TARGET COMPOUNDS		
1,1-Dichloroethane	ND			
Vinyl Acetate	ND	1		
2-Butanone	ND			
cis-1,2-Dichloroethene	ND			
Chloroform	1 J	i		
1,1,1-Trichloroethane	ND			
Carbontetrachloride	ND			
1,2-Dichloroethane	ND	1		
Benzene	ND	1		
Trichloroethene	ND	1		
1,2-Dichloropropane	ND	1		
Bromodichloromethane	ND	1		
4-Methyl-2 Pentanone	ND			
cis-1,3-Dichloropropene	ND			
Toluene	ND			
trans-1,3-Dichloropropene				
1,1,2-Trichloroethane	ND	1		
2-Hexanone	ND	i		
Tetrachloroethene	ND	i		
Dibromochloromethane	ND	i		
Chlorobenzene	ND	1		
Ethylbenzene	ND	1		
1,P-Xylene	ND			
J-Xylene	ND	ND = LESS THAN 5 PPB		
tyrene	ND	1 HD - CEUS HIMN V FFD		
romoform	ND	I ALL CONCENTRATIONS LESS THAN		
122Tetrachloroethane	ND	1 5 PPB ARE ESTIMATES		
-Chlorotoluene	ND ND	I NELE UNE ESTITUTES		
-chiorotoluene	מא	I .		

SITE NAME: SARATOGA TRE	E N	URSERY		FIELD ID: STN - MW - 8S
SAMPLE NUMBER: 595-264-	06 			EXTRACTION METHOD: SPE
MATRIX: GROUNDWATER				% SOLID: NA
PESTICIDE		 UANT (ug/	 L)	DETECTION LIMIT:
ALPHA-BHC	•	ND	1	PESTICIDES - CROL
	1	ND	1	AROCLORS - CROL
DELTA-BHC		ND		DILUTION FACTOR - 1
GAMMA-BHC		ND		
HEPTACHLOR	1	ND		
ALDRIN		ND		
HEPTACHLOR EPOXIDE	1	ND		AROCLOR QUANT (ug/L)
		ND		1016 I NA
DIELDRIN	1	ND	1	1221 I NA
	1	ND	1	1232 I NA
	1	ND		1242 I NA
	1	ND		
4,4'-DDD + 2,4'-DDD				1254 I NA
ENDOSULFAN SULFATE	 I	ND	1	1260 I NA
4,4'-DDT	1	ND	1	
ENDRIN ALDEHYDE	1	ND	1	
ENDRIN KETONE	1	ND		
METHOXYCHLOR		ND	1	
CHLORDANE (ALPHA/GAMMA)	1	ND/ND	1	
TOXAPHENE	1	NA NA	1	• ' .