NORTHROP GRUMMAN CORPORATION

BETHPAGE, NEW YORK

PHASE I/PHASE II ENVIRONMENTAL ASSESSMENT
McKAY FIELD PICNIC GROUNDS, BALL FIELDS
AND FORMER NURSERY AREAS
BETHPAGE, NEW YORK

PROJECT #1145-11

SEPTEMBER 1997

Office Location:

EDER ASSOCIATES

480 Forest Avenue

Locust Valley, New York 11560

Office Contact:

Stephen Hix

Keith Butler

(516) 671-8440

Offices in New York, Massachusetts, Wisconsin, Michigan, Georgia, Florida and New Jersey

7.0 PHASE II ENVIRONMENTAL ASSESSMENT

The McKay Field Phase I Environmental Assessment Report prepared by Eder Associates (EDER) identified a report entitled *Off-Site Soil Sampling and PCB Analysis Report NWIRP Bethpage, New York - CTO0089.* This report details the results of an investigation conducted by Halliburton NUS Corporation for the U.S. Navy to determine if contamination from the Naval Weapons Industrial Reserve Plant (NWIRP) had migrated off-site. Two surface soil samples collected during the investigation, samples SS-08 and SS-13, were located on or near the McKay Field property. Analytical results showed polychlorinated biphenyls (PCBs) in the soils at concentrations of 3.52 mg/kg (SS-08) and 5.0 mg/kg (SS-13). The NYSDEC (TAGM 4046) has set a recommended soil cleanup level for PCBs of 1 mg/kg for surface soils and 10 mg/kg for subsurface soils.

EDER collected surface soil samples in the area of the two Halliburton NUS samples and near the transformer in the southwest corner of the picnic grounds to confirm the absence or presence of PCBs in the soils, and determine if PCBs on the property would present a significant environmental risk.

EDER collected two surface soil samples from the transformer area at the southwest corner of the McKay picnic grounds and five surface soil samples from the grass area between the former Northrop Grumman Plant 24 building and Stewart Avenue. Sample locations are shown on Figures 3 and 4. Figure 5 shows the sampling areas with respect to the surrounding properties. The sampling area was cleaned of any rocks, vegetation or other debris and then the samples were collected using a pre-cleaned stainless steel trowel. The trowel was decontaminated after each use using a solution of distilled water and Alconox detergent and a double rinse. Samples were placed in pre-cleaned laboratory supplied glassware and labeled with sample ID, date, time, and collector's name. A duplicate sample (S-6) was collected for quality control at the same location as sample S-5. A field blank was also collected by pouring distilled water over the cleaned trowel and collecting

the runoff for analysis. All sample information was documented in a field notebook. The samples were delivered to Ecotest Laboratories, North Babylon, New York for PCB analysis by USEPA Method 8080. Sample results are summarized in Table 1 and laboratory reports are attached.

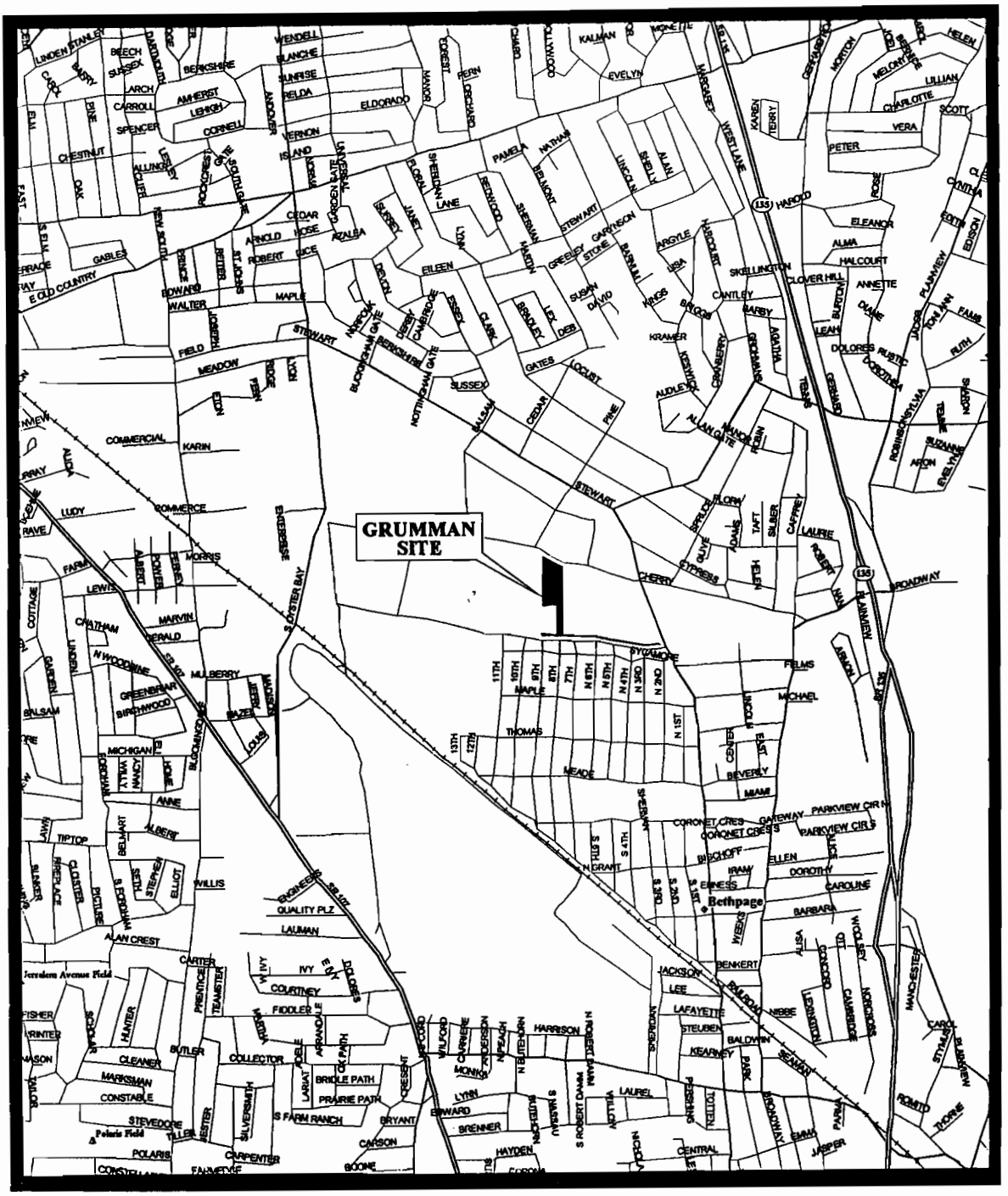
Laboratory results were compared to the Recommended Soil Cleanup Objective as defined by the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) 4046, dated January 1994. The TAGM indicates the surface soil cleanup objective to be one part per million (1 ppm) and the sub-surface soil cleanup objective to be ten parts per million (10 ppm). Based on these objectives four of the samples collected from the grass area between the former Plant 24 building and Stewart Avenue exceed the surface soil objective, but the concentrations are at or below the subsurface soil standard, ranging from 1.4 ppm to 10 ppm. EDER also compared the results to the Recommended Soil Action Levels listed in the USEPA *Guidance on Remedial Actions for Superfund Sites with PCB Contamination.* These action levels are based on the health risks associated with ingestion, inhalation and dermal contact with contaminated soils and are provided for both residential and industrial sites. The action level for residential sites is 1 ppm and the action level for industrial sites is 10 ppm to 25 ppm.

All of the samples that exceeded the TAGM surface soil standard are located in the grass area adjacent to the access road from Stewart Avenue to the former Plant 24 building and are not connected with the park area, ballfields or picnic grounds. The current risk associated with this grass area appear to be minimal, and should not affect the picnic ground, ballfields or the former nursery areas.

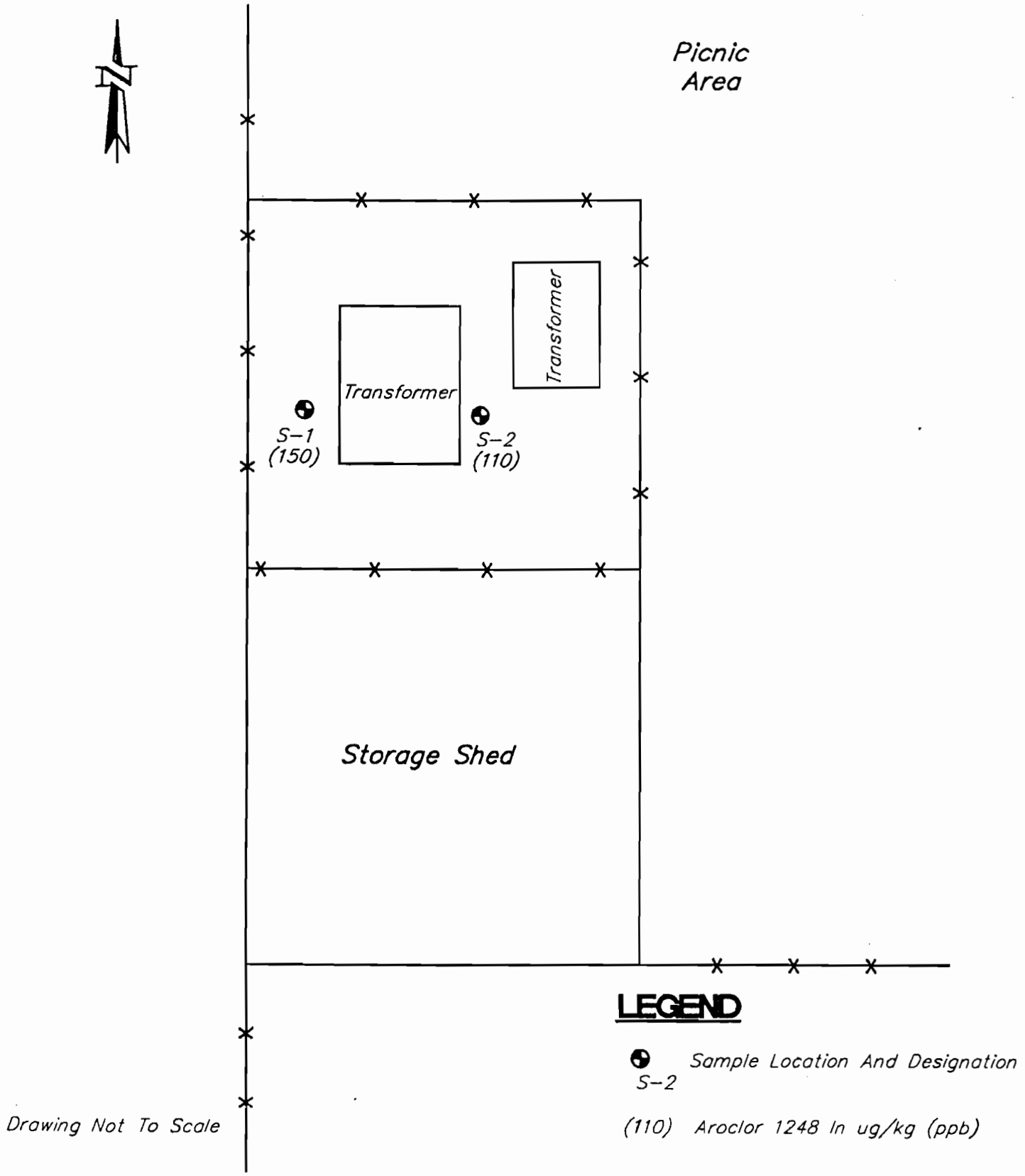
Since the McKay Field property is zoned as an industrial site, no remedial action is currently warranted. Should the future use of the site change additional sampling, risk assessment, and/or remediation alternatives may be needed to protect against PCB exposure at the site. These recommendations are consistent with the New York State Department of Health's position regarding the use of the site.

NORTHROP GRUMMAN CORP.

BETHPAGE, NEW YORK



LOCATION MAP



SAMPLING LOCATION MAP

NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

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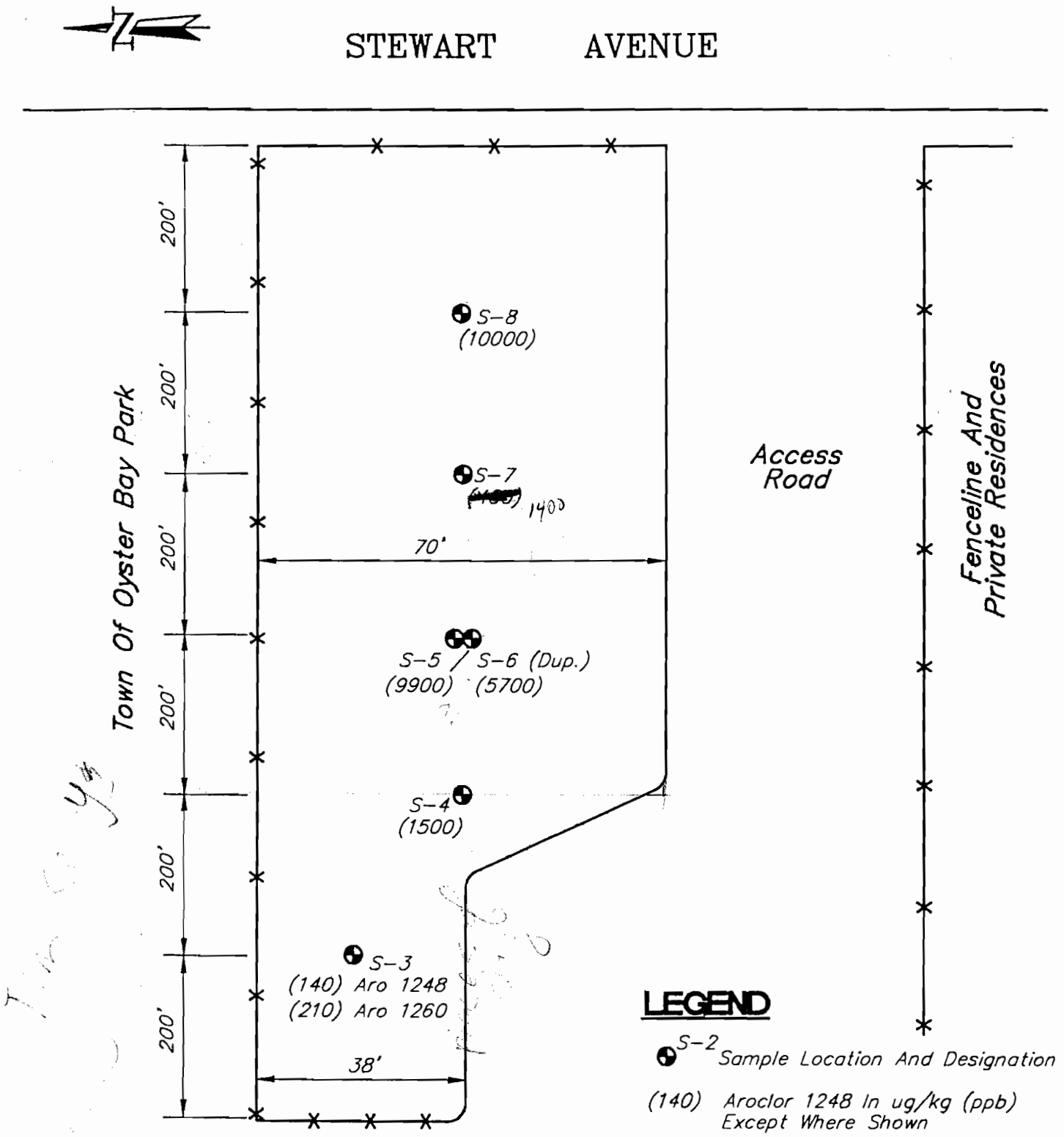


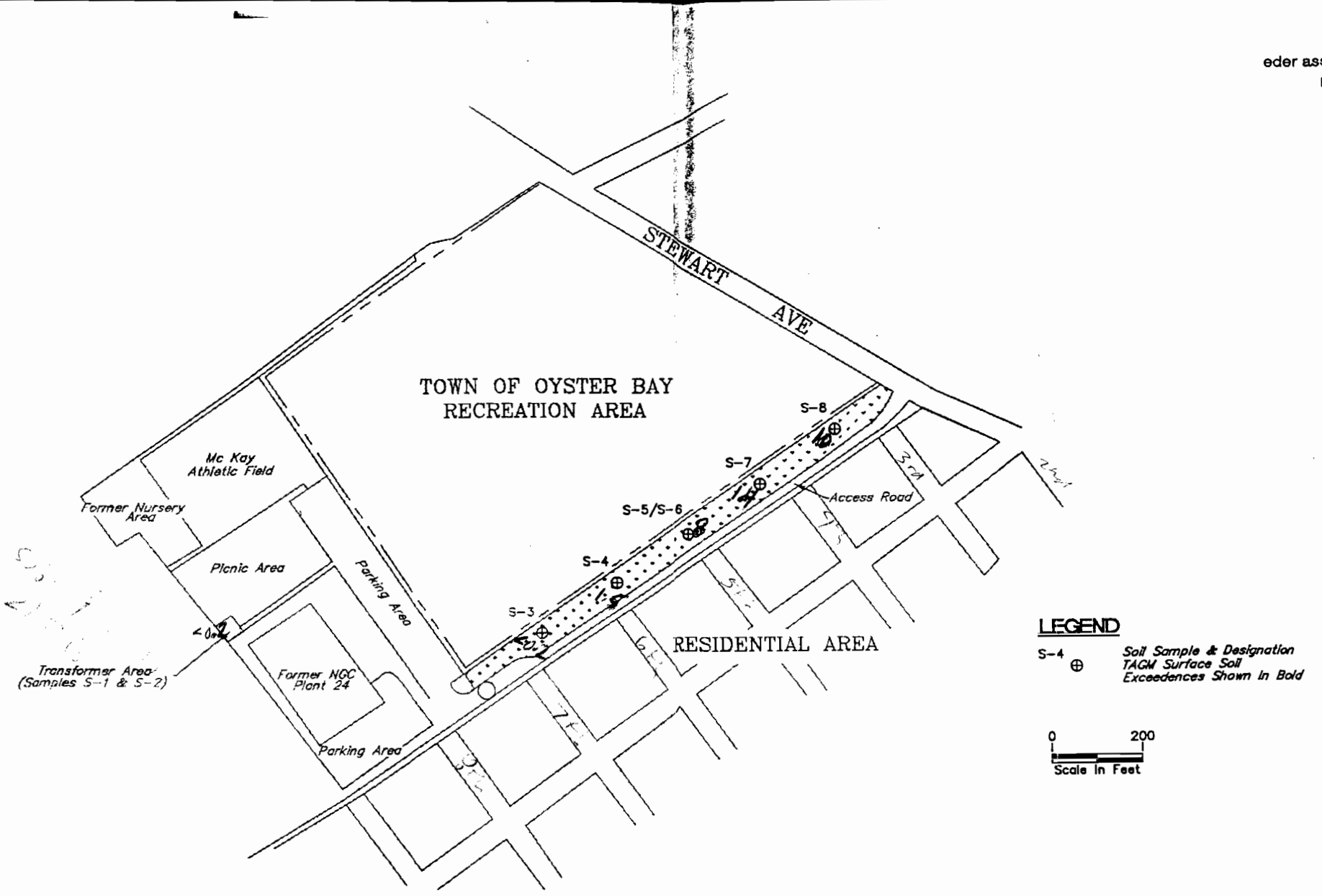
SAMPLING LOCATION MAP

NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

S114511C
072597

eder associates

FIGURE 5



LOCATION MAP & SOIL SAMPLE LOCATION

McKAY FIELD PROPERTY
NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

SK114511
080597

APPENDIX G

PHASE II LABORATORY REPORT

File # 1145-11.1

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/1 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-1, 1355

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	150	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	<40	
% Solids		90	

cc:

REMARKS:

DIRECTOR

rn= 17354 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/2 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-2, 1400

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	110	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	<40	
% Solids		87	

cc:

REMARKS:

DIRECTOR

rn= 17355 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/3 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-3, 1415

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	140	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	210	
% Solids		96	

cc:

REMARKS:

DIRECTOR

rn= 17356 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/4 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-4, 1430

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<100	
Aroclor 1221	ug/Kg	<100	
Aroclor 1232	ug/Kg	<100	
Aroclor 1242	ug/Kg	<100	
Aroclor 1248	ug/Kg	1500	
Aroclor 1254	ug/Kg	<100	
Aroclor 1260	ug/Kg	<100	
% Solids		96	

cc:

REMARKS:

DIRECTOR

rn= 17357 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/5 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-5, 1435

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<800	
Aroclor 1221	ug/Kg	<800	
Aroclor 1232	ug/Kg	<800	
Aroclor 1242	ug/Kg	<800	
Aroclor 1248	ug/Kg	9900	
Aroclor 1254	ug/Kg	<800	
Aroclor 1260	ug/Kg	<800	
% Solids		97	

cc:

REMARKS:

DIRECTOR

rn= 17358 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/6 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-6, 1342

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<400	
Aroclor 1221	ug/Kg	<400	
Aroclor 1232	ug/Kg	<400	
Aroclor 1242	ug/Kg	<400	
Aroclor 1248	ug/Kg	5700	
Aroclor 1254	ug/Kg	<400	
Aroclor 1260	ug/Kg	<400	
% Solids		98	

cc:

REMARKS:

DIRECTOR

n= 17359 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/7 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-7, 1440

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<100	
Aroclor 1221	ug/Kg	<100	
Aroclor 1232	ug/Kg	<100	
Aroclor 1242	ug/Kg	<100	
Aroclor 1248	ug/Kg	1400	
Aroclor 1254	ug/Kg	<100	
Aroclor 1260	ug/Kg	<100	
% Solids		98	

cc:

REMARKS:

DIRECTOR

rn= 17360 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/8 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-8

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<800	
Aroclor 1221	ug/Kg	<800	
Aroclor 1232	ug/Kg	<800	
Aroclor 1242	ug/Kg	<800	
Aroclor 1248	ug/Kg	10000	
Aroclor 1254	ug/Kg	<800	
Aroclor 1260	ug/Kg	<800	
% Solids		97	

cc:

REMARKS:

DIRECTOR

rn= 17361 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/9 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Water sample, FB-1, 1500

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/L	<1	
Aroclor 1221	ug/L	<1	
Aroclor 1232	ug/L	<1	
Aroclor 1242	ug/L	<1	
Aroclor 1248	ug/L	<1	
Aroclor 1254	ug/L	<1	
Aroclor 1260	ug/L	<1	

cc:

REMARKS:

DIRECTOR

rn= 17362

NYSDOH ID# 10320

OFFSITE SOIL SAMPLING
AND PCB ANALYSIS REPORT
NWIRP BETHPAGE, NEW YORK - CTO 0089

INTRODUCTION

The Northern Division of the Naval Facilities Engineering Command has issued Contract Task Order (CTO) 0089 to Halliburton NUS Corporation, under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract N62472-90-D-1298 to perform Remedial Investigation and Feasibility Study for the Naval Weapons Industrial Reserve Plant (NWIRP), located in Bethpage, New York. As part of the investigations, the Navy has recently completed offsite soil testing to determine if contamination from the Navy's Site 1 has migrated off site.

INVESTIGATIVE PROCEDURE

The offsite investigation consisted of collecting surface soil samples in the residential neighborhood (numbered streets) bordering the eastern portion of the Navy's property and analyzing the samples for PCBs. These samples were collected on November 16 and 17, 1994. New York State and Nassau County Departments of Health were present during the sampling. A total of 17 surface soil samples (including duplicates) were collected from 15 locations in and near the residential neighborhood. The testing consisted of sampling eleven residential properties near the NWIRP Bethpage's Site 1, two areas on an industrial property adjacent to the Navy recharge basins, one area at the Bethpage Community Park, and one area at a playground on Meade Avenue near 5th Street, (See Figure 1).

The sample locations were initially selected based on the proximity to the Navy property and potential wind dispersion patterns. The actual sample locations were modified in the field based on the ability to obtain homeowners permission, and in one case a planned sample location was moved because of the recent residential application of a pesticide to a lawn.

As indicated in Figure 1, the most extensive sampling was conducted nearest the Navy's property and in particular nearest the Navy's Site 1. This approach was based on the assumption that if contaminated dust was leaving the Navy's property, then the lawns closest to the Navy's property would be expected to have the highest concentration. Also, a general trend of decreasing contamination with distance from the Navy's property should be observed. One sample was collected off site, east of the Navy recharge basins, because of the finding of low levels of PCBs in the recharge basin area.

In addition, three locations were selected to serve as reference points. The reference points were the Bethpage Community Park, the access road to the Navy's property located off Stewart Avenue, and a recreation area on Meade Avenue. These areas were tested because low concentrations of chemicals such as PCBs can be found in some locations due to the proximity of power transmission equipment (e.g. electric transformers).

The soil analysis was limited to PCBs for the following reasons.

* PCBs were detected in one soil sample on the Navy's property at a relatively high concentration, when considering toxicity and regulatory criteria.

* PCBs are not mobile, but are persistent in the environment remaining in surface soils for extended periods of time. Because of these properties, PCBs can also be used as an indicator to determine whether other site contaminants with similar properties (such as metals) may have migrated off site historically.

* Other site contaminants such as solvents were not tested because they would not accumulate in residential soils. The solvents (if released) would either migrate to the groundwater (and eventually be detected there) or would remain in the air and be destroyed through photochemical reactions.

The sampling procedure consisted of establishing a relatively uniform 5-point grid on each property to be tested. Where possible, preference was given to exposed soils (gardens and bare soil patches). Locations with mulch and other similar materials brought into the area was avoided. Pin flags were placed at each grid point and the pin flag locations were photographed (photographs are available in the project files). At each grid point, if present, the sod was cut and lifted back. Otherwise, only leaves and other similar debris were removed. A stainless steel trowel was used to collected soil from the sod root zone, below the root zone, and up to 6 inches below the surface. The soil was placed in a stainless steel bowl and mixed with the soil obtained from the other four grid points in each area. This composite sample was then submitted to RECRA Environmental Laboratories for PCB testing using Contract Laboratory Program Statement of Work OLM01.8 analytical and reporting protocols in accordance with Naval Energy and Environmental Support Activity Level D Quality Assurance/Quality Control (QA/QC) criteria. The data validation letter is provided in Attachment 1 and summarized in the Analytical Results section.

ANALYTICAL RESULTS

The analytical results are provided in Table 1. The testing found PCBs at detectable levels in only two of the eleven residential properties, one on 11th Street and Thomas (SS-04) and one on the northern end of 10th Street (SS-05). The PCB concentrations detected at these locations were 0.068 mg/kg and 0.120 mg/kg, respectively; which are significantly less than the level of 1.0 mg/kg established by the United States Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation for residential properties.

The sample collected on the access road, adjacent to the Navy recharge basin (SS-08), was measured to contain 3.52 mg/kg of PCBs. This access road is considered to be an industrial area. The EPA standards for PCBs in industrial soils are 10 to 25 mg/kg. For comparison, the PCB concentration in soils on the Navy's property near this location (SB229) was measured during the Remediation Investigation to be 6.8 mg/kg. Because of the similarity in onsite and offsite concentration, as well as the general concentration of PCBs detected at the Navy's property and the finding of similar levels in the industrial control point (SS-13, see below), the presence of PCBs at these locations is not believed to be the result of wind dispersion from the Navy property.

Residential and industrial background samples were collected to evaluate the potential presence of PCBs in areas likely to be unrelated to the NWIRP Bethpage activities. Two samples were collected as background samples for residential areas, one at the Bethpage Community Park near the basketball courts (SS-14), and one in the playground on Meade Avenue, near the swings (SS-15). The sample collected at the Bethpage Community Park (SS-14) was measured to contain 0.169 mg/kg of PCBs. Again, the standard for residential use of property is 1 mg/kg. The sample collected at the playground (SS-15) did not have detectable levels of PCBs. One sample was collected as a background sample for industrial areas. This sample was collected on the access road to the NWIRP, near Stewart Avenue (SS-13). This sample was measured to contain 5.0 mg/kg of PCBs. The EPA standards for PCBs in industrial soils are 10 to 25 mg/kg.

Overall, no major quality concerns were noted with the sample results. Several samples were analyzed at dilutions because of the presence of significant levels of non-target compounds. An acid cleanup was performed on all samples prior to analysis, but was only partially effective at minimizing interferences. These interferences account for the differences in detection limits reported.

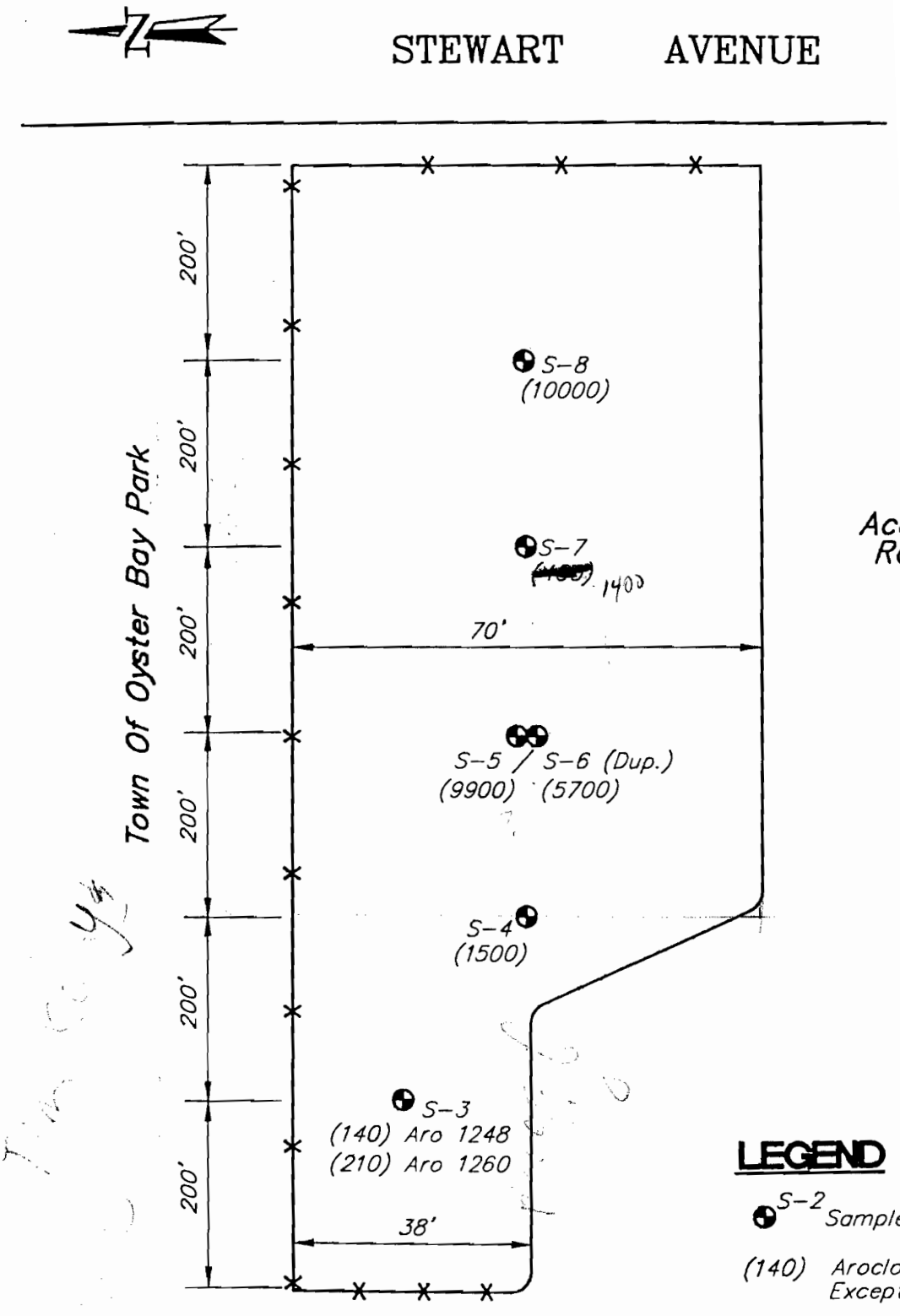
CONCLUSIONS

The following conclusions were derived from this study.

* PCBs were detected in only two out of eleven residential samples and at concentrations significantly below applicable standards for a residential setting. Based on the information presently available, it can be concluded that contamination from the Navy's Site 1 has not spread into the residential community.

* There is evidence that non-target compounds are present in several of the residential properties.

* PCBs were detected at two of the three control points. However, both concentrations detected were below applicable EPA standards. In addition, the presence of PCBs in the control points may be an indication that other common sources, such as power transmission equipment, could be the source of these detections.



Drawing Not To Scale

SAMPLING LOCATION MA

NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

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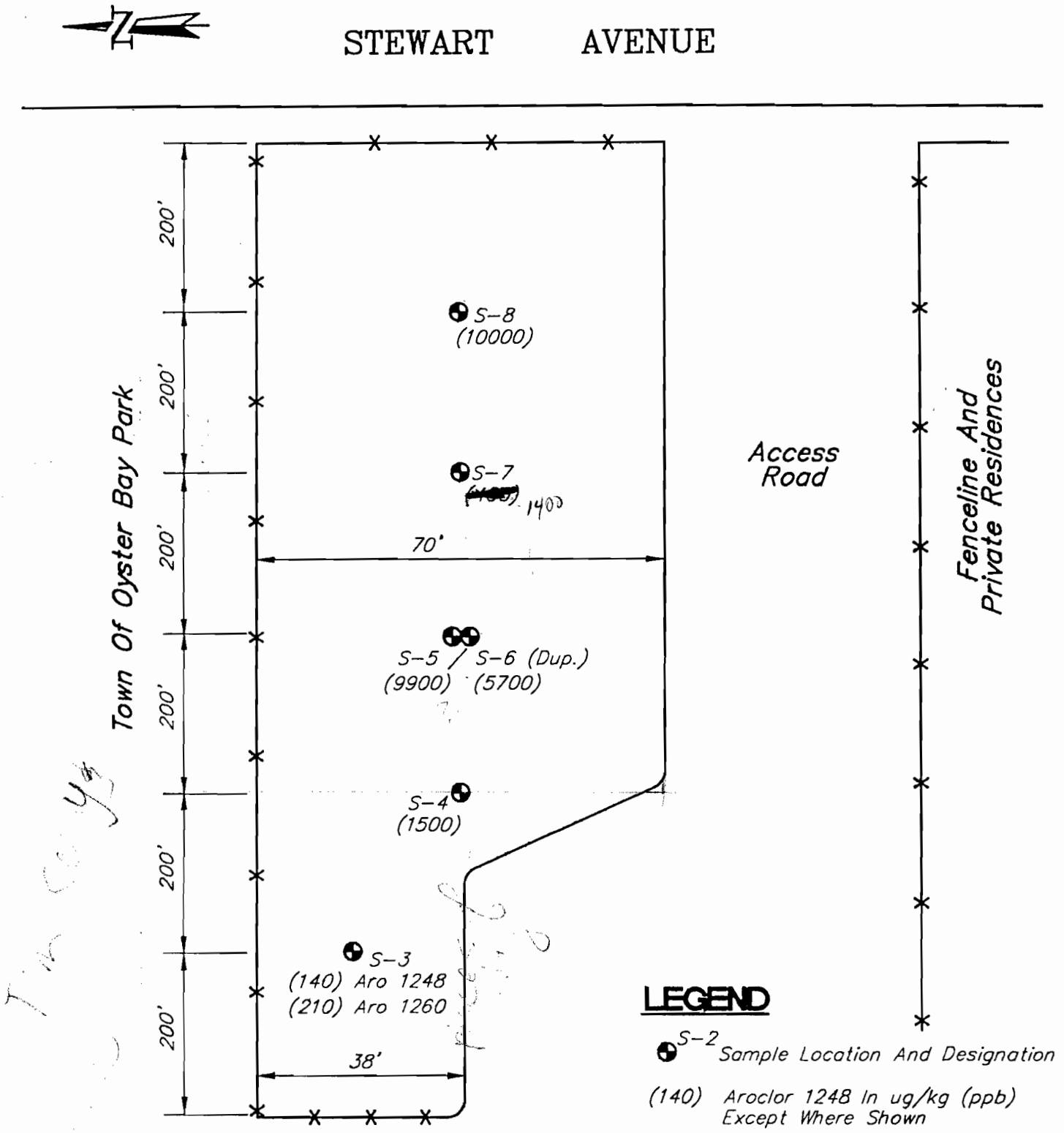
072597



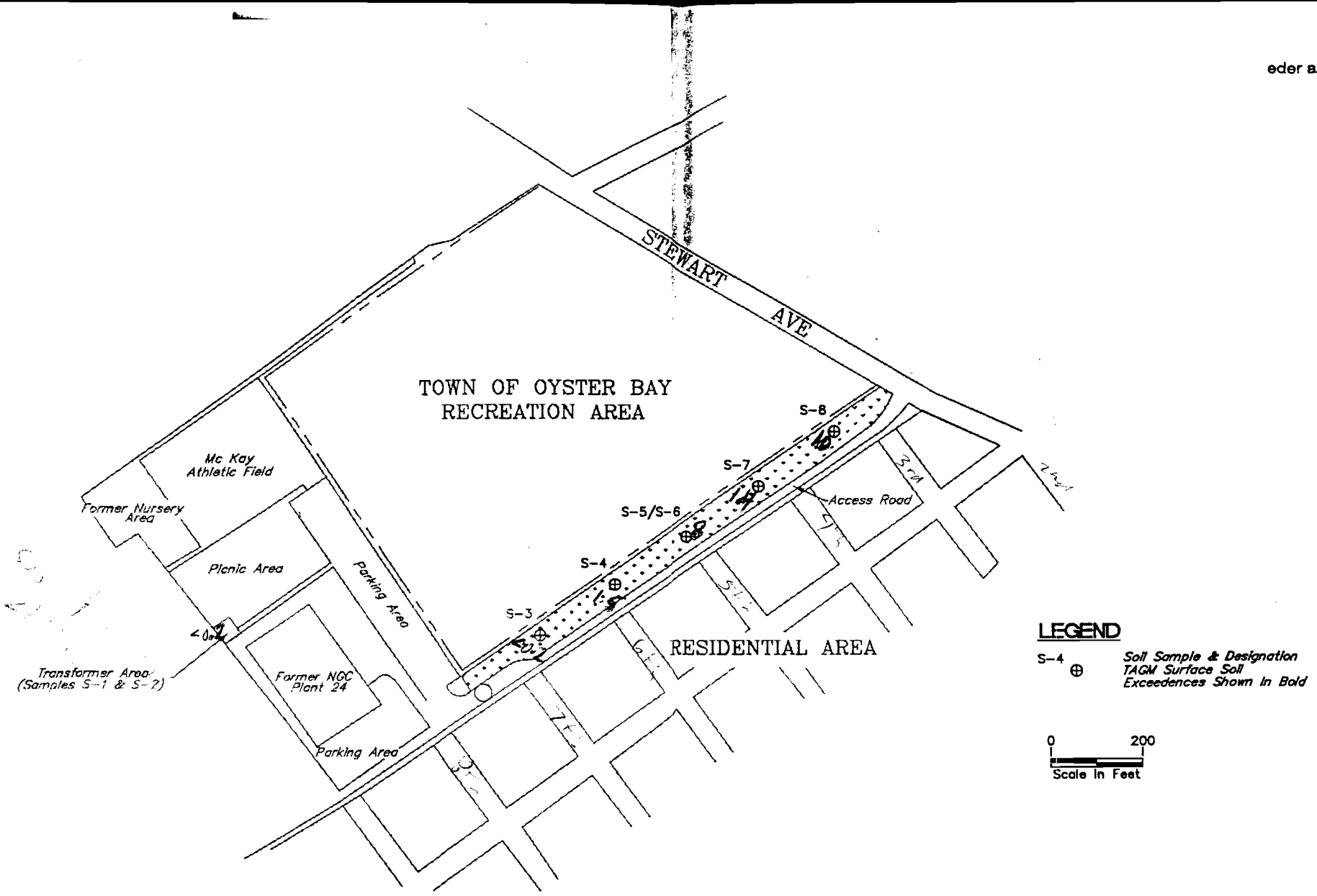
SAMPLING LOCATION MAP

NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

S114511C
072597

eder associates

FIGURE 5



LOCATION MAP & SOIL SAMPLE LOCATION

McKAY FIELD PROPERTY
NORTHROP GRUMMAN CORP.
BETHPAGE, NEW YORK

SK114511
080597

APPENDIX G

PHASE II LABORATORY REPORT

File # 1145-11.1

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/1 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-1, 1355

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	150	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	<40	
% Solids		90	

cc:

REMARKS:

DIRECTOR

rn= 17354 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/2 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-2, 1400

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	110	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	<40	
% Solids		87	

cc:

REMARKS:

DIRECTOR

rn= 17355 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/3 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-3, 1415

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<40	
Aroclor 1221	ug/Kg	<40	
Aroclor 1232	ug/Kg	<40	
Aroclor 1242	ug/Kg	<40	
Aroclor 1248	ug/Kg	140	
Aroclor 1254	ug/Kg	<40	
Aroclor 1260	ug/Kg	210	
% Solids		96	

cc:

REMARKS:

DIRECTOR

rn= 17356 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/4 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-4, 1430

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<100	
Aroclor 1221	ug/Kg	<100	
Aroclor 1232	ug/Kg	<100	
Aroclor 1242	ug/Kg	<100	
Aroclor 1248	ug/Kg	1500	
Aroclor 1254	ug/Kg	<100	
Aroclor 1260	ug/Kg	<100	
% Solids		96	

cc:

REMARKS:

DIRECTOR

rn= 17357 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/5 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-5, 1435

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<800	
Aroclor 1221	ug/Kg	<800	
Aroclor 1232	ug/Kg	<800	
Aroclor 1242	ug/Kg	<800	
Aroclor 1248	ug/Kg	9900	
Aroclor 1254	ug/Kg	<800	
Aroclor 1260	ug/Kg	<800	
% Solids		97	

cc:

REMARKS:

DIRECTOR

rn= 17358 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/6 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-6, 1342

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<400	
Aroclor 1221	ug/Kg	<400	
Aroclor 1232	ug/Kg	<400	
Aroclor 1242	ug/Kg	<400	
Aroclor 1248	ug/Kg	5700	
Aroclor 1254	ug/Kg	<400	
Aroclor 1260	ug/Kg	<400	
% Solids		98	

cc:

REMARKS:

DIRECTOR

rn= 17359 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/7 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-7, 1440

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<100	
Aroclor 1221	ug/Kg	<100	
Aroclor 1232	ug/Kg	<100	
Aroclor 1242	ug/Kg	<100	
Aroclor 1248	ug/Kg	1400	
Aroclor 1254	ug/Kg	<100	
Aroclor 1260	ug/Kg	<100	
% Solids		98	

cc:

REMARKS:

DIRECTOR

rp= 17360 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/8 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Soil sample, S-8

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<800	
Aroclor 1221	ug/Kg	<800	
Aroclor 1232	ug/Kg	<800	
Aroclor 1242	ug/Kg	<800	
Aroclor 1248	ug/Kg	10000	
Aroclor 1254	ug/Kg	<800	
Aroclor 1260	ug/Kg	<800	
% Solids		97	

cc:

REMARKS:

DIRECTOR

rn= 17361 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO.C972755/9 07/16/97

Eder Associates, Incorporated
480 Forest Avenue, P.O. Box 707
Locust Valley, NY 11560
ATTN: Keith Butler

SOURCE OF SAMPLE: McKay Field, Phase II, Job#1145-11.1
COLLECTED BY: Client DATE COL'D:06/26/97 RECEIVED:06/27/97

SAMPLE: Water sample, FB-1, 1500

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/L	<1	
Aroclor 1221	ug/L	<1	
Aroclor 1232	ug/L	<1	
Aroclor 1242	ug/L	<1	
Aroclor 1248	ug/L	<1	
Aroclor 1254	ug/L	<1	
Aroclor 1260	ug/L	<1	

cc:

REMARKS:

DIRECTOR

rn= 17362

NYSDOH ID# 10320

Town Board of Oyster Bay
TOWN HALL
OYSTER BAY, N. Y.

WALNUT 2-5800

SUPERVISOR
JOHN J. BURNS

COUNCILMEN
MARJORIE R. POST
PETER B. ALLSOPP
LOUIS A. SISIA
EDMUND A. OCKER
EDWARD J. POULOS
A. CARL GRUNEWALD

TOWN CLERK
WILLIAM B. O'KEEFE

October 16, 1962

Grumman Aircraft Engineering Corporation
South Oyster Bay Road
Bethpage, Long Island, New York

Dear Sirs:

Re: Donation of Land to Bethpage Park District

In connection with your proposed gift of approximately 18 acres of land to the Bethpage Park District for a community park and recreation center, this will confirm the following:

1. In accordance with your request, there will be erected and maintained at a suitable place in the Park a permanent plaque recording Grumman's donation of the land, but the Park will not be named for Grumman or any individual presently or heretofore associated with Grumman.

2. It is not contemplated that the establishment of the proposed community park and recreation center will lead to the rezoning of Grumman's adjacent property in a manner which would impair its usefulness to Grumman.

3. Title to the fencing presently enclosing the sump on the land will remain in Grumman, and Grumman may at its own expense remove such fencing from the land after the gift of land has been made, provided that it does so before the continued presence of the fencing will impede development of the land.

4. Grumman may continue to discharge the non-toxic liquid waste currently being discharged into the sump, and may continue to dump clean fill on the land as heretofre, until the further discharge of such liquid waste and further dumping of such fill will in the Town's opinion impede development of the land.

5. All out-of-pocket expenses incident to the gift of land (eg the cost of a survey and deed recording costs) will be borne by the Town, and the Town Tax and School Tax paid or payable by

Town Board of Oyster Bay
TOWN HALL
OYSTER BAY, N. Y.

SUPERVISOR
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A. CARL GRUNEWALD

TOWN CLERK
WILLIAM B. O'KEEFE

WALNUT 2-5800

Grumman with respect to the donated land will be refunded or abated, as appropriate, to the extent that they relate to a portion of the tax year after the gift of land has been made.

6. The closing for the gift of land will be held at 11:15 A.M., October 17, 1962, in the Office of the Town Attorney, Town Hall, Audrey Avenue, Oyster Bay, New York.

Sincerely yours,

TOWN BOARD OF OYSTER BAY

By _____
Supervisor

BFMcC/kdc

EXHIBIT 46

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ORDNANCE
Washington

Ind. Serv., Wac.

December 26, 1941

Subject: Contractual relationship at new Ordnance facilities

To: Commanding Officer,
Denver Ordnance Plant,
Denver, Colorado.

1. It has been apparent for some time that many of our Commanding Officers and operating contractors at our new Ordnance facilities do not thoroughly understand their respective duties and responsibilities under the contracts which have been negotiated. It is the purpose of this letter to bring out clearly, for the guidance of all concerned, the correct relationship as between the commanding Officer (the representative of the Contracting Officer) and the Contractor Operator.

2. The Ordnance Department, in selecting the operators of new Ordnance facilities, has chosen only such industrial organizations as have demonstrated outstanding ability in the manufacturing or managerial fields. It is intended and desired that full use be made of this demonstrated ability to produce. The Contractor has a vital interest in his reputation as a skilled manufacturer. Should Ordnance personnel assume any of the functions which the Operator has contracted to perform, namely, the planning, the direction of operations, and the actual operations, the United States will be robbing the operator of the initiative without which efficient production cannot be carried on. Should it be demonstrated by poor performance of a Contractor Operator that he is not competent to operate the plant, adequate provision for termination is carried by the terms of the Contract.

3. It is realized that certain functions must be performed by Ordnance personnel. These functions are, however, limited to the coordination of all phases of the work during construction and equipping incident to bringing the new Ordnance facility into full production at the earliest possible date; the determination that all production operations are performed in conformity with existing safety rules and regulations; the supervision and direction of the defense of the military reservation; the determination that the items produced comply with specifications and are a maximum as to quantity; and the assurance by administrative action, that Government funds are properly expended.

4. In performing the functions referred to next above, it is realized that Ordnance personnel must keep in close touch with all phases of the work. These functions can be performed, however, without infringing upon the proper responsibilities of the operator if it be constantly borne in mind that these plants are not operated like an old line Arsenal and that it is the Operator and not the Commanding Officer who is hired to operate the facility.

By order of the Chief of Ordnance:

/s/ C. T. Harris, Jr.

C. T. HARRIS, Jr.
Major General
Assistant to the Chief of Ordnance
Chief of Industrial Service