

ADDITIONS/CHANGES TO REGISTRY OF
 INACTIVE HAZARDOUS WASTE DISPOSAL SITES

Site Name GRUMMAN AEROSPACE BETHPAGE FACILITY DEC ID Number 130003
 Site Address STEWART AVE, BETHPAGE County NASSAU

Add New Site: (Potential hazardous waste site, Site Inspection Summary Report, EPA Preliminary Assessment Form and Registry Form must be completed and attached)

Modify Registry data (detail below) (see attached Registry sheet)

Reclassify from class 2a to class 2. (justify below)

Delist (justify below)

Detail/Justification

IN 1986, AS A RESULT OF A NASSAU COUNTY HEALTH DEPARTMENT & U.S. GEOLOGICAL SURVEY COOPERATIVE STUDY OF THE BETHPAGE AREA, A SHALLOW (<100 FOOT DEEP WELLS) PLUMIE OF ORGANIC CONTAMINATION CONSISTING OF VOLATILE ORGANIC COMPOUNDS WAS DOCUMENTED BENEATH THE GRUMMAN FACILITY. THE CENTER OF THE PLUMIE (CORRESPONDING TO THE APPROXIMATE CENTER OF THE GRUMMAN SITE, (SEE ATTACHED CONTOUR MAP) AND THE PLUMIE MOVEMENT IS CONSISTENT WITH KNOWN GROUND WATER FLOW DIRECTION IN THE AREA. THE HIGHEST CONCENTRATION OF VOLATILES (TOTAL) IN THE PLUMIE WAS 4798 ppb.

IN 1976 ON SITE DEEP PRODUCTION WELL FOR PLANT No. 2 CONTAINED 14,197 ppb OF TOTAL VOLATILE ORGANIC COMPOUNDS. THE WELLS SURROUNDING THIS WELL SHOWED A DROP OF AT LEAST AN ORDER OF MAGNITUDE IN CONCENTRATION, STRONGLY SUGGESTING AN ON-SITE SOURCE. SAMPLING OF DEEP WELLS (352-552') DURING THE 1986 STUDY CONFIRMED THE CONTINUED PRESENCE OF VOLATILES AT UP TO 1,000+ ppb ON SITE.

Prepared by: RICHARD H. DANA Date: 12/16/87 (SEE ATTACHED SUMMARY OF RESULTS)

Approvals:

- Reg. Haz. Waste Eng. Telefon 12/18/87 Date: 12/18/87
- R. Tramontano NYSDOH Glen G. Nosted for M.T. Date: 1/5/88
- V. Bryant DEE Dance Bryan Date: 12/18/87
- W. Demick/M. Chen Marsden Chen Date: 1/5/88
- R.A. Olazagasti [Signature] Date: _____
- C.N. Goddard Frank Rietta Date: 1/11/88

Site description was modified on 2/24/88

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF SOLID AND HAZARDOUS WASTE
 INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: ~~2a~~ ² REGION: 1 SITE CODE: 130003
 EPA ID: NYD002047967

NAME OF SITE : Grumman Aerospace-Bethpage Facility
 STREET ADDRESS: Stewart Avenue COUNTY: ZIP:
 TOWN/CITY: Bethpage Nassau

SITE TYPE: Open Dump- Structure- Lagoon-X Landfill-X Treatment Pond-
 ESTIMATED SIZE: 713 Acres

SITE OWNER/OPERATOR INFORMATION:
 CURRENT OWNER NAME....: Grumman Aerospace Corp. and U.S. Navy
 CURRENT OWNER ADDRESS.: Stewart Avenue, Bethpage, NY 11714
 OWNER(S) DURING USE...: Grumman Aerospace Corp. and U.S. Navy
 OPERATOR DURING USE...: Grumman Aerospace Corp. and U.S. Navy
 OPERATOR ADDRESS.....: Stewart Ave., Bethpage, NY 11714
 PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Unknown To

SITE DESCRIPTION:
 Industrial site had one sludge drying bed for 1300 ton/yr of wastewater treatment plant sludge. Sludge was generated from aluminum and Cr treatment, zyglu inspections, paint operations and metal cleaning. Sludge beds were cleaned in 1980. Investigation is needed for the whole Grumman plant, and associated Naval Weapons Industrial Plant.

HAZARDOUS WASTE DISPOSED: TYPE	Confirmed-X	Suspected- QUANTITY (units)
Aluminum and Chromium Sludges		1300 ton/yr.
Paint Sludge		
Metals		
<i>Production line waste waters by Dept. 3 (A-111) containing various industrial materials (but not chromium)</i>		<i>Unknown</i>



ANALYTICAL DATA AVAILABLE:

Air- Surface Water- Groundwater-X Soil- Sediment- None-

CONTRAVENTION OF STANDARDS:

Groundwater-x Drinking Water-x Surface Water- Air-

LEGAL ACTION:

TYPE...: State- Federal-
 STATUS: Negotiation in Progress- X Order Signed-

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-x No
 NATURE OF ACTION: ~~Removed sludge~~

GEOTECHNICAL INFORMATION:

SOIL TYPE: Sand
 GROUNDWATER DEPTH: 65 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

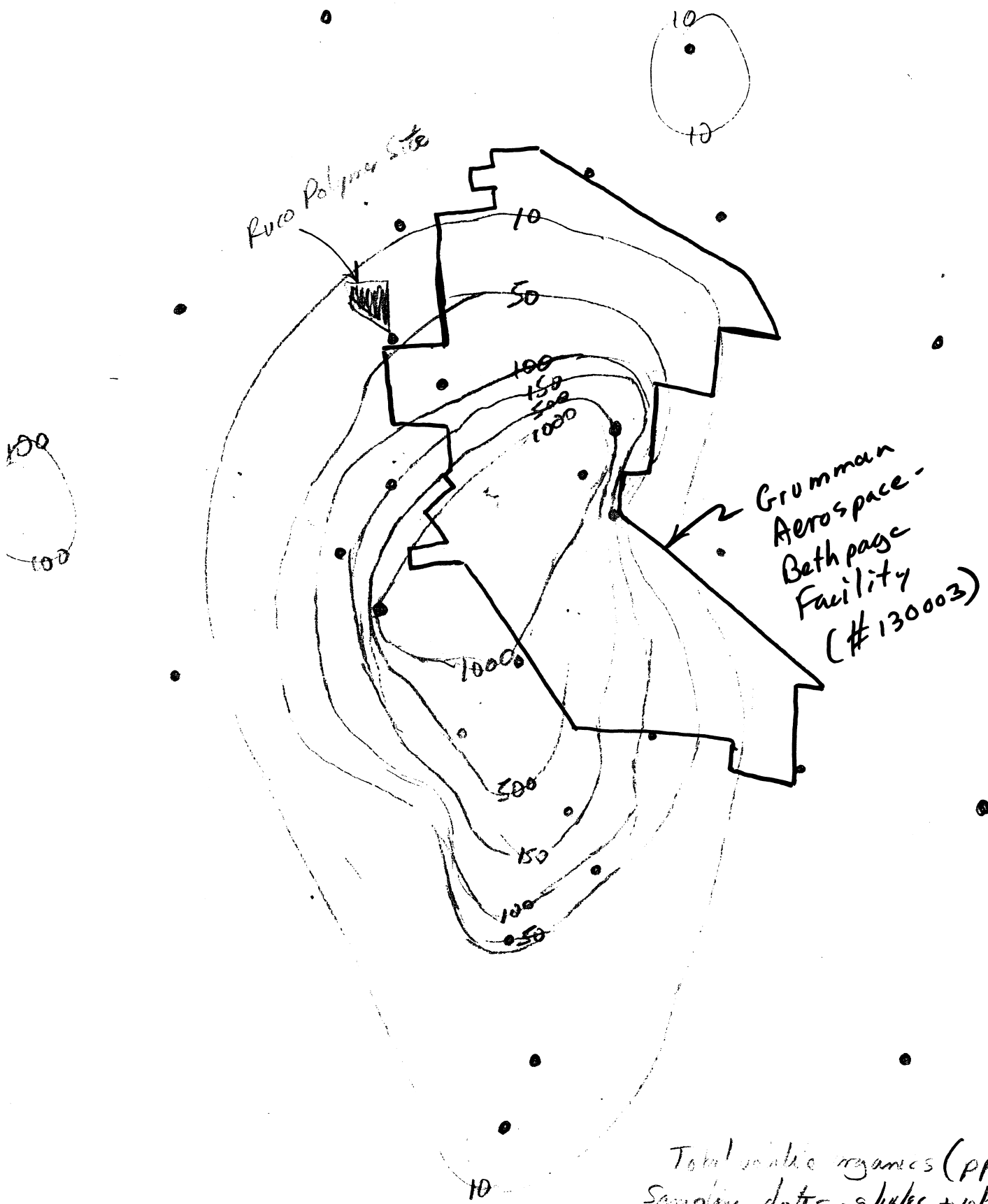
Potential for several pathways of contaminant migration.

ASSESSMENT OF HEALTH PROBLEMS:

Medium	Contaminants Available	Migration Potential	Potentially Exposed Population	Need for Investigation
Air	Likely	Unlikely	Yes	Medium
Surface Soil	Likely	Unlikely	yes	Medium
Groundwater	Likely	Unlikely	yes	Medium
Surface Water	Likely	Unlikely	No	Low

Health Department Site Inspection Date : 2/85

MUNICIPAL WASTE ID:



Total volatile organics (ppb)
 Sampling dates - 9/14/86 + 10/23/86
 Total VO's in wells
 <100' deep

BETHPAGE/HICKSVILLE GROUNDWATER QUALITY RESULTS
USGS/NCOH COOPERATIVE STUDY

SAMPLE DATE	4/30/86	9/23/86	5/21/86	9/25/86	10/30/86	4/30/86	9/25/86	10/30/86	9/23/86
WELL NO.	N-7518	N-7518	N-7534	N-7534	N-7534	N-7535	N-7535	N-7535	N-7536
DEPTH (FT)	375	375	866	866	866	357	357	357	436
OWNER	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN
WATER DISTRICT	BETHPAGE	BETHPAGE	HICKSVILLE	BETHPAGE	BETHPAGE	BETHPAGE	BETHPAGE	BETHPAGE	BETHPAGE

ORGANICS

Volatile Halogenated (ug/l)

Vinyl Chloride	NA	<1	NA	NR	170.0	NA	NR	4.0	<1
Trichlorofluoroethane	NA	<1	NA	NR	<1	NA	NR	88	<2
Methylene Chloride									
1,1,2-Trichlorotrifluoroethane	<11	<10	69	NR	26	14	NR	110	10
1,1-Dichloroethylene									
cis-1,2-Dichloroethylene	<14	<4	<15	NR	88	<15	NR	<5	<4
1,1-Dichloroethane	<18	<9	<12	NR	<5	<16	NR	<3	<9
Chloroform	<1	<1	<1	NR	<1	1	NR	<1	<1
1,1,1-Trichloroethane	5	5	72	NR	24	100	NR	75	37
Carbontetrachloride	<1	<1	<1	NR	<1	<1	NR	<1	<1
Trichloroethylene	8	7	13	NR	62	180	NR	150	59
Bromo-dichloroethane	<1	<1	<1	NR	<1	<1	NR	<1	<1
c-1,3-Dichloropropene									
Dibromochloroethane	<1	<1	<2	NR	<1	<2	NR	<1	<1
1,1,2-Trichloroethane	<1	<2	<1	NR	<2	<1	NR	<2	<2
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	<1	<1	45	NR	84	100	NR	50	5
Bromoform	<2	<3	<1	NR	<2	<2	NR	<2	<3

Volatile Aromatics (ug/l)

Benzene	<3	<3	<4	NR	<3	<3	NR	<3	<3
Toluene	<4	<5	<7	NR	<3	<4	NR	<3	<5
Chlorobenzene	<4	<5	<6	NR	<3	<3	NR	<3	<5
Ethyl Benzene	<5	<4	<9	NR	<5	<7	NR	<5	<6
Xylene (o,m,p)	<5	<6	<10	NR	<20	<8	NR	<6	<6
Dichlorobenzene	<15	<23	<20	NR	<25	<20	NR	<25	<25
Total Volatiles	13.0	12.0	199.0	NR	404.0	395.0	NR	477.0	111.0

BETHPAGE/HICKSVILLE GROUNDWATER QUALITY RESULTS
USGS/NCDH COOPERATIVE STUDY

SAMPLE DATE	9/25/86	10/07/86	5/21/86	10/07/86	9/25/86	4/30/86	9/23/86	10/07/86
WELL NO.	N-7635	N-7636	N-8124	N-8124	N-8134	N-8454	N-8454	N-8454
DEPTH (FT)	394		543	543	520	560	560	560
OWNER	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN	GRUMMAN
WATER DISTRICT	BETHPAGE	BETHPAGE	HICKSVILLE	HICKSVILLE	HICKSVILLE	BETHPAGE	BETHPAGE	BETHPAGE

ORGANICS

Volatile Halogenated (ug/l)

Vinyl Chloride	8.7	77	<1	NA	NR	<1	NA	<1	NR
Trichlorofluoroethane	<1	<1	<1	NA	<1	<1	NA	<1	<1
Methylene Chloride	47	<8	<10	51	42	37	<11	<10	<8
1,1,2-Trichlorotrifluoroethane									
cst-1,2-Dichloroethylene	25	<4	<4	<15	<4	18	<14	<4	6
1,1-Dichloroethane	15	<5	<9	<12	<5	<5	<18	<9	<5
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	12	6	2	2	<1	8	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	810	13	13	550	320	500	<1	<1	29
Bromo-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
c-1,3-Dichloropropene									
Dibromochloroethane	<1	<1	<1	<2	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<2	<2	<2	<1	<2	<2	<1	<2	<2
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethylene	130	4	6	25	20	27	<1	<1	99
Bromoforn	<2	<2	<3	<1	<2	<2	<2	<3	<2

Volatile Aromatics (ug/l)

Benzene	<3	<3	<3	<4	<3	<3	<3	<3	<3
Toluene	<4	<4	<5	<7	<4	<4	<4	<5	<4
Chlorobenzene	<6	<6	<5	<6	<5	<6	<4	<5	<6
Ethyl Benzene	<10	<10	<6	<9	<10	<10	<5	<4	<10
Xylene (o,m,p)	<10	<10	<6	<10	<10	<10	<5	<6	<10
Dichlorobenzene	<20	<20	<25	<20	<20	<20	<15	<25	<20
Total Volatiles	1032.7	23.0	21.0	628.0	382.0	590.0	0.0	0.0	134.0